



Handbuch Berylliumkupfer-Werkzeug Handbook beryllium-copper tools



Handbuch Titanwerkzeug Handbook titanium tools



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Guten Tag lieber Kunde!

Vielen Dank dafür, dass Sie sich die Zeit nehmen, sich unseren Katalog für funkenfreies und unmagnetisches Werkzeug und Werkzeugsätze anzusehen. EMAREI®, gegründet 2014, hat sich spezialisiert auf die Entwicklung und den Vertrieb von Ex-Schutz Werkzeug und antimagnetischen Werkzeugsätzen aus Beryllium-Kupfer und paramagnetischen Werkzeugen und Werkzeugsätzen aus Titan.

Unser spezieller Service für unsere Werkzeugkunden ist, dass wir nach Kundenwunsch die Werkzeuge sicher und geordnet in einem abschließbaren, laugen- und säurebeständigen Kunststoffkoffer mit Klappverschlüssen und Tragegriff liefern. Der Koffer wird von uns individuell auf Ihre Werkzeugauswahl mit gefrästen, antistatischen, stabilen Schaumstoffeinlagen ausgestattet. Die Auswahl unserer Standardwerkzeuge liegt bei über 4.500 Werkzeugen.

Unser Unternehmen hat sich zum Ziel gesetzt, Ihre Anforderungen an Werkzeuge für Arbeiten in kritischen Bereichen wie Ex-Schutz-Zonen oder starken Magnetfeldern zu 100% zu erfüllen und Ihnen zu akzeptablen Konditionen Werkzeuglösungen zu bieten.

Die nachhaltige Verwendung von Werkzeugen und der Schutz Ihrer Mitarbeiter und Ihres Materials liegt uns im Besonderen am Herzen. Daher wird jeder Werkzeugsatz sowohl mit einer Sicherheitsanweisung als auch ggfls. mit einer notwendigen Bedienungsanleitung ausgestattet.

Weitere - für uns - selbstverständliche Leistungen sind

- TÜV-Zertifikate für die Eignung der Werkzeuge im Ex-Bereich
- Test-Zertifikate für die Prüfung von MR-Kompatibilität
- Versicherungsdeckung für
 - Personen- und Sachschäden ges. 9 Mio. € p.a.
 - Produkthaftpflicht 3 Mio. € p.a.
- Lieferzeit i.d.R. 1-4 Wochen nach Auftragseingang

Weltbekannte Firmen wie SIEMENS Energy, Audi, DMG-MORI, Bitzer, Applied Materials, Hitachi Medical, Sirona Dental Systems, Tesla Engineering, das KIT Karlsruher Institut für Technologie, European XFEL, DESY und andere Unternehmen der Hermann von Helmholtz-Gemeinschaft Deutscher Forschungszentren e.V arbeiten bereits ebenso mit hoher Zufriedenheit mit unseren Werkzeugen wie lokal ansässige Unternehmen wie das Klärwerk Unterföhring und L&R Kältetechnik im Sauerland.

Wir freuen uns sehr, wenn wir Sie bald zu unseren zufriedenen Kunden zählen können und Sie uns bei unserem weiteren Wachstum unterstützen.

Mit freundlichen Grüßen aus dem Münsterland!

Dipl.-Ing. Philipp Josef Daum
Geschäftsführer

Good day, dear customer!

Thank you very much for taking the time to having a look into our catalog for non-sparking and non-magnetic tools and tool sets. EMAREI®, founded 2014, is specialized on development and sales of non-sparking and paramagnetic tools and tool sets from beryllium-copper and aluminum-bronze.

Our special service for tool customers is the production and delivery of customized tool cases to ensure a proper and safe storage in an acid-proof and alcali resitant polypropylene tool case. The tool cases are individually designed to your individual tool selection and equipped with milled, antistatic foam inlays. Our portfolio contains more than 5.000 tools.

The objective of our company is to fully fulfill your requirements of tools for works in critical areas as explosive regions or strong magnetic fields and to supply tool solutions at reasonable conditions.

A sustainable usage of tools and the protection of your employees and your material is very important to us. This is the reason why every tool set is equipped with a safety instruction as well as an operation manual if necessary.

Our self-evidend side services fulfill our program

- Test-certificate for the application of non-sparking tools in explosive areas
- Test-certificate for MR compatibility
- Insurance for
 - combined limit for body injury and property damage 9 Mio. € each year
 - product liability 3 Mio. € each year
- Delivery time normally 1-4 weeks after order entry

Worldwide renowned companies as SIEMENS Energy, Audi, DMG-MORI, Bitzer, Applied Materials, Hitachi Medical, Sirona Dental Systems, Tesla Engineering, KIT Karlsruher Institut für Technologie, European SFEL, DESY and other companies of the Hermann von Helmholtz- association of German Research Centers e.V are already working with high satisfaction with our tools as well as local companies as the purification plant Unterföhring nearby Munich and L&R Kältetechnik in the German region Sauerland.

We would be very glad, if we could count you in the near future to our satisfied customers and your support within our further growth.

With warm regards from Germany!

Berylliumkupfer-Werkzeuge sind unerlässliche Werkzeuge in allen Bereichen, in denen funkenfrei gearbeitet werden muss, daher werden BeCu-Werkzeuge auch als Funkenfreie Werkzeuge benannt. Einsatzbereiche sind alle ATEX-Bereiche, in denen mit entflammaren Flüssigkeiten und Gasen gearbeitet wird. Berylliumkupfer-Legierungen sind unmagnetisch und haben eine sehr gute elektrische Leitfähigkeit. Sie weisen gegen viele Medien eine hohe Korrosionsbeständigkeit auf. Da das funkenfreie Werkzeug aus Kupfer-Beryllium auch unmagnetisch ist, kann es ebenso für Arbeiten in magnetischen Feldern verwendet werden.

Sicherheitshinweis: Kupferberyllium-Legierungen stellen als Zubereitungen in fester Form keine direkte Gesundheitsgefahr für den Menschen durch Hautkontakt, Einatmen und/oder Verschlucken dar. Jedoch ist das Legierungselement Beryllium sehr giftig. Es sollte daher darauf geachtet werden, dass beim Bearbeiten keine einatembaren Be-Partikel entstehen, wie dies zum Beispiel beim Schleifen, Schweißen und Lösungsglügen der Fall ist. Zerspanende Bearbeitung (Fräsen, Drehen, Bohren ist als ungefährlich einzustufen, da dabei keine kleinen Partikel in die Luft gelangen können.



Beryllium copper tools are indispensable tools in all areas in which spark-free machining is required, so BeCu tools are also known as non-sparking tools. Areas of application are all ATEX areas, which are operated with flammable liquids and gases. Beryllium copper alloys are non-magnetic and have very good electrical conductivity. They have high corrosion resistance against many media. Since the non-sparking tools are made of copper beryllium, which is MR conditional and non-magnetic, it can also be used in magnetic fields.

Safety information: Copper beryllium alloys as preparations in solid form do not present a direct health hazard to humans by skin contact, inhalation and / or ingestion. However, the alloy element beryllium is very toxic. Care should therefore be taken to ensure that no inhalable pArtikel / Articles are formed during processing, as is the case, for example, during grinding, welding and solution annealing. Machining (milling, turning, drilling is to be regarded as safe, since no small pArtikel / Articles can get into the air.



Materialeigenschaften / properties of material:

Härte / Hardness	Beryllium-Copper(Be-Cu)Alloy
Zugfestigkeit / Tensile Strength	35-40HRc (283~365 Brinell) 1117 N/mm ² ~ 1326N/mm ²
Dehnbarkeit / Extensibility	δ≤1.0%
Elastizität / Elasticity limit	840~880 N/mm ²
Magnetisierbarkeit / Magnetic	0

Hauptanwendungen / Main Applications:

Petrochemicals	Refineries	Gas & Oil pipelines	Power stations	Paint Manufacturing
Plastic Manufacturing	Pharmaceutical Industry	Fireworks Industry	Chemical Industry	
Flour silos and mills	Breweries	Alcohol processing industries	Destilleries	Fire-Fighters

Eigenschaften und Funktionen / Properties and features:

Eigenschaft / Property	Anwendungen und Vorteile / Application or Benefits
Funkenfrei / Non-sparking	Geeignet für potentiell explosive Umgebung wie Arbeiten an Öl- oder Gas, Petrochemische Industrie. / Appropriate for explosive potential environments such as oil and gas works, petro-chemical plants.
Unmagnetisch / Non-magnetic	Wesentlich für Anlagen, an denen nur mit unmagnetischem Werkzeug gearbeitet werden darf. / Essential for equipments that require complete non-magnetic safety
Rostfrei / Corrosion resistant	Speziell passend für Anwendungen in korrodierender Atmosphäre wie Offshore oder Feuerwehr-Anwendungen / Specially well suited for applications in corrosive environments like encountered in marine works or fire-fighting applications.
Nach dem Gießen geschmiedet / Forged after casting	Bietet bessere mechanische Eigenschaften und bessere Endverarbeitung / Provides higher mechanical properties and better finishing.

Individuell auf Ihre Anforderungen zugeschnittene Werkzeugkoffer

Zugegebenermaßen: EMAREI © bietet über 40 Systemlösungen an Werkzeugsätzen und -koffern, jedoch ist die Wahrscheinlichkeit sehr gering, dass sich in diesen Koffern genau das Werkzeug befindet, mit dem SIE oder Ihre Mitarbeiter produktiv und ergonomisch arbeiten können.

Das ist der Grund, warum EMAREI © Ihnen anbietet, für ihre Bedürfnisse einen individuellen Koffer zu fertigen. Sie brauchen sich aus unserem Programm an hochwertigen, qualitativen und trotzdem wettbewerbsfähigen funkenfreien Werkzeugen lediglich die von Ihnen gewünschten Werkzeuge herauszusuchen und wir konstruieren Ihnen hierzu einen passenden Koffer und bieten diesen gemeinsam mit unseren ATEX Werkzeugen an.

Die Vorteile dieser Lösung sind offensichtlich:

- Schutz des teuren Werkzeugs vor Stößen und unsachgemäßer Lagerung
- Automatische Vollständigkeitsprüfung durch vorgegebene, gefräste Einsätze im antistatischen Schaumstoff des Werkzeugkoffers
- Sicherer Transport des Werkzeugs im wasser- und luftdichten Kunststoff-Koffer
- Der Koffer ist mit stabilen Klappverschlüssen ausgestattet und kann mit Bügelschlössern abgeschlossen werden
- Werkzeugkoffer ist laugen- und säurebeständig, da aus Polypropylen gefertigt
- Ergonomisch geformter Tragegriff
- Sie können auch einen Standardkoffer Ihrer Wahl aussuchen, den wir entsprechend ausstatten
- Wir bieten unseren Service bereits ab Stückzahl „1“ an
- Wir konstruieren und fertigen auch Sonderwerkzeuge

Tool cases customized to your tool requirements:

We admit – even if we offer more than 40 standardized tool solutions and tool cases - that the probability to meet exactly YOUR requirements is quite low; that exactly those tools you need to ensure productive and ergonomic work are already the content of our offerings.

This is the reason, why EMAREI © offers to produce customized tool case according to your individual requirements and demands. You just need to select those non-sparking tools you need out of our high valued, qualitative and competitive portfolio and we design a fitting tool case and quote for it together with our ATEX-tools.

The advantages are obvious:

- Protection of the expensive tools from shocks and non-fitting storage
- Automatic check of completeness of the tools with given cutouts in the antistatic foam in the tool cases
- Safe transport of the tools in water and airtight plastic cases
- The case is equipped with rigid hinged breech blocks and can be securely closed with U-locks.
- The tool case is alkali and acid-proof as it is made from polypropylene
- Ergonomically shaped carry handle
- You can also select a standard case which we can equip accordingly
- We are offering our service already with the quantity „1“
- We are designing and manufacturing also special tools

Branchenlösungen – an Kundenwünsche angepasste Lösungen, Beispiele:

Business solutions – customized tool colutions, examples:

Artikel/Article EAI0500BC x

Werkzeugsatz mit 34 Teilen für Arbeiten in Ex-Bereichen / Tool set with 34 tools for works in explosive areas



Artikel / Article EAI0572BC x
Werkzeugsatz mit 38 Teilen für Kältetechnische Arbeiten im Ex-Bereich / Tool set with 38 tools for refrigeration works

Artikel/Article EAI0175BCx

Werkzeugsatz mit 30 VDE-Werkzeugen für Arbeiten im Ex-Bereich für Elektriker / Tool set with 30 tools for electricians



Artikel / Article EAI0574BC x

Werkzeugsatz mit 16 Ex-Werkzeugen für Arbeiten im Ex-Bereich in Lackfabriken/ Tool set with 16 tools for refrigeration works in color production

Artikel/Article EAI0600BCx

Werkzeugsatz mit 19 Teilen für Arbeiten im Ex-Bereich von Klärwerken / Tool set with 19 tools for works in purification plants

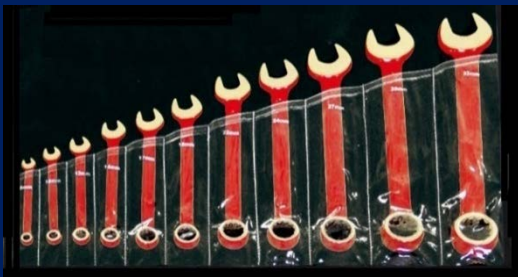


**EM A Doppelmaulschlüsselset /
Double Open End Wrench Set**



Werkzeuge / Tools	Beschreibung / Description (mm)
EMA-9	8*10, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 30*32 mm
EMA-10	8*10, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32 mm
EMA-11	8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32 mm
EMA-13	5.5*7, 6*7, 8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32 mm

**EM B Ringmaulschlüssel-Set /
Combination Wrench Set**



Werkzeuge / Tools	Beschreibung / Description
EMB-9	8, 10, 12, 14, 17, 19, 22, 24, 27 mm
EMB-10	10, 12, 14, 17, 19, 22, 24, 27, 30, 32 mm
EMB-11	8, 10, 12, 14, 17, 19, 22, 24, 27, 30, 32 mm
EMB-13	8, 10, 12, 13, 14, 16, 17, 19, 22, 24, 27, 30, 32 mm

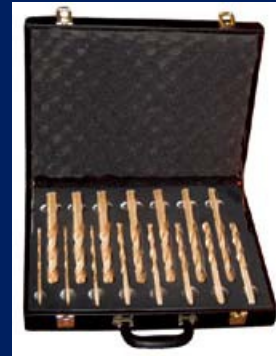
**EM C Doppelringmaulschlüssel-Set
Double Box Offset Wrench Set**



Werkzeuge / Tools	Beschreibung / Description
EMC-9	8*10, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 30*32 mm
EMC-10	8*10, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32 mm
EMC-11	8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32 mm
EMC-13	5.5*7, 6*7, 8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32 mm

**EM D-15 Bohrer Set, 15-teilig /
Drill Bit Set-15pcs**

Maße / Dimensions
L*W*H:
400*290*70 mm



Werkzeuge / Tools	Beschreibung / Description
Bohrer / Drill Bit	6*100, 7*120, 8*140, 9*160, 10*180, 11*200, 12*220, 13*240, 14*260, 15*280, 16*300, 17*300, 18*320, 19*320, 20*330 mm

**EM E-9 Werkzeugset, 9-teilig
Tool Set-9pcs**

Maße /
Dimensions
L*W*H:
400*290*90 mm



Werkzeuge / Tools	Beschreibung / Description
Rollgabelschlüssel / Wrench, Adjustable	300 mm
Kombizange / Pliers, Lineman	200 mm
Nut- und Federnzange / Pliers, Groove Joint	250 mm
Schlitzschraubendreher / Slotted Screwdriver	150, 200 mm
Kreuzschlitzschraubendreher / Philips Screwdriver	150, 200 mm
Schlosserhammer / Hammer, Cross Pein Engineers	1kg
Spachtel / Knife, Putty	50*200 mm

EM F-15 Werkzeugset 15-teilig / Tool Set-15pcs



Maße /
Dimensions
L*W*H:
400*290*90 mm

Werkzeuge / Tools	Beschreibung / Description
Wrench, Double Open End	8*10, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 30*32 mm
Rollgabelschlüssel / Wrench, Adjustable	250 mm
Kombizange / Pliers, Lineman	200 mm
Spitzzange / Pliers, Snipe Nose	200 mm
Schlitzschraubendreher / Slotted Screwdriver	200 mm
Kreuzschlitzschraubendreher / Phillips Screwdriver	200 mm
Ausbeul- Kugelhammer / Hammer, Ball Pein	0.91 kg

EM H-17 Werkzeugset 17-teilig / Tool Set-17pcs



Werkzeuge / Tools	Beschreibung / Description
Rohrschlüssel / Wrench, Pipe	350 mm
Rollgabelschlüssel / Wrench, Adjustable	200, 300 mm
Ringmaulschlüssel / Wrench, Combination	14, 17, 19, 22, 24, 27 mm
Kombizange / Pliers, Lineman	200 mm
Spitzzange / Pliers, Long Nose	200 mm
Verstellb. Kombizange / Pliers, Adjustable Comb.	200 mm
Durchtreiber / Punch, Machinists	Φ18*160 mm
Flachmeißel / Chisel, Flat	Φ18*160 mm
Schlitzschraubendreher / Slotted Screwdriver	150 mm
Kreuzschlitzschraubendreher / Phillips Screwdriver	150 mm
Ausbeul- Kugelhammer / Hammer, Ball Pein	0.91 kg

EM G-16 Werkzeugset 16-teilig / Tool Set-16pcs



Werkzeuge / Tools	Beschreibung / Description
Doppelring Schlüssel / Wrench, Double Box	8*10, 10*12, 14*17, 19*22 mm
Rollgabelschlüssel / Wrench, Adjustable	250 mm
Rohrschlüssel / Wrench, Pipe	350 mm
Wasserpumpenzange / Pliers, Water Pump	250 mm
Verstellb. Kombizange / Pliers, Adjustable Comb.	150, 200 mm
Schlitzschraubendreher / Slotted Screwdriver	150 mm
Kreuzschlitzschraubendreher / Phillips Screwdriver	150 mm
Klauenhammer / Hammer, Claw	0.45 kg
Spachtel / Knife, Putty	25*200 mm
Messer / Knife, Common	250 mm
Winkelschaber / Scraper, Deck	45*300 mm
Bürste / Brush	4*16 mm

EM I-26 Werkzeugset 26-teilig / Tool Set-26pcs



Werkzeuge / Tools	Beschreibung / Description
Flachmeißel / Chisel Flat	18*180 mm
Rollgabelschlüssel / Wrench, Adjustable	150 mm
Kombizange / Pliers, Lineman	200 mm
Verstellb. Kombizange / Pliers, Adjustable Comb.	200 mm
Spitzzange / Pliers, Snipe Nose	150 mm
Kreuzschlitzschraubendreher / Phillips Screwdriver	150 mm, 200 mm
Schlitzschraubendreher / Slotted Screwdriver	150 mm, 200 mm
Steckschlüssel / Socket (1/2") Dr	8, 10, 12, 14, 17 mm
Quergriff / Sliding T Handle	1/2"*250 mm
Test-Hammer / Hammer, Testing	0.15kg
Ringmaulschlüssel / Wrench, Combination	8, 10, 12, 14, 17 mm
Inbusschlüssel / Wrench, Hex Key	4, 5, 6, 8, 10 mm

**EM J-26 Werkzeugsatz, 26-teilig /
Tool Set-26pcs**



Maße / Dimensions
L*W*H:
650*400*140 mm

Werkzeuge / Tools	Beschreibung / Description
Wrench, Pipe	450 mm, 250 mm
Rollgabelschlüssel / Wrench, Adjustable	375, 300, 200, 150 mm
Ausbeul- Kugelhammer / Hammer, Ball Pein	0.91 kg
Kombizange / Pliers, Lineman	200 mm
Spitzzange / Pliers, Snipe Nose	200 mm
Schlitzschraubendreher / Slotted Screwdriver	400, 200 mm
Kreuzschlitzschraubendreher / Philips Screwdriver	400, 200 mm
Handle Doppelringschlüssel / Doppelringschlüssel / Wrench, Double Box	500 mm 30*27, 27*24, 24*22, 22*19, 19*17, 17*14 mm
Doppelmaulschlüssel / Wrench, Double Open End	30*32, 27*30, 24*27, 22*24, 19*22, 17*19 mm

**EM K-28 Werkzeugsatz, 28-teilig /
Tool Set-28pcs**



Werkzeuge / Tools	Beschreibung / Description
Fäustel / Hammer, Sledge	1.8kg
Ausbeul- Kugelhammer / Hammer, Ball Pein	0.91 kg
Klauenhammer / Hammer, Claw	0.45 kg
Rohrzange / Wrench, Pipe	300 mm, 450 mm
Rollgabelschlüssel / Wrench, Adjustable	200 mm, 300 mm
Ringmaulschlüssel / Wrench, Combination	8, 10, 12, 14, 17, 19, 22, 24, 27, 30, 32 mm
Kombizange / Pliers, Lineman	200 mm
Spitzzange / Pliers, Long Nose	200 mm
Verstellbare Kombizange / Pliers, Adjustable Comb.	200 mm
Hebeisen / Bar, Pinch	Φ25*300 mm
Flachmeißel / Chisel, Flat	Φ25*300 mm
Schlitzschraubendreher / Slotted Screwdriver	100 mm, 200 mm
Kreuzschlitzschraubendreher / Philips Screwdriver	100 mm, 200 mm
Valve Handle	400 mm

**EM N-56 Werkzeug-Satz, 56-teilig /
Tool Set-56pcs**



Maße / Dimensions
L*W*H:650*450*150 mm

Werkzeuge / Tools	Beschreibung / Description
Doppelmaulschlüssel / Wrench, Double Open End	5.5*7, 6*7, 8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32 mm
Inbusschlüssel / Wrench, Hex Key	2, 3, 4, 5, 6, 7, 8, 10 mm
Schlitzschraubendreher / Slotted Screwdriver	50, 75, 100, 150 mm
Kreuzschlitzschraubendreher / Philips Screwdriver	50, 75, 100, 150 mm
Rollgabelschlüssel / Wrench, Adjustable	250 mm
Tweezers, Neat Tips	150 mm
Kombizange / Pliers, Lineman	150 mm
Spitzzange / Pliers, Snipe Nose	150 mm
Nut- und Federnzange / Pliers, Groove Joint	250 mm
Drehmomentschlüssel / Torque Wrench	1/4", 3/8"
1/4" Steckschlüssel / Socket	4, 5, 6, 7, 8, 9, 10, 11 mm
3/8" Steckschlüssel / Socket	10, 11, 12, 13, 14, 17, 19 mm
Handgriff / Driver Type Handle	1/4"
Ratschenschlüssel / Ratchet Wrench	3/8"
Gerade Verbindung / Straight Joint	3/8"
Verlängerung / Driver Extension	3/8**75 mm
Zündkerzenschlüssel / Spark Plug	

EM L-36 Werkzeugset, 36-teilig / Tool Set-36pcs

Maße /
Dimensions
L*W*H:
650*450*140 mm



Werkzeuge / Tools	Beschreibung / Description
Fäustel / Hammer, Sledge	1.8 kg
Kugelhammer / Hammer, Ball Pein	0.91 kg
Rohrschlüssel / Wrench, Pipe	450 mm
Rollgabelschlüssel / Wrench, Adjustable	150, 200 mm
Ringmaulschlüssel / Wrench, Combination	10, 8 mm
Kombizange / Pliers, Lineman	200, 150 mm
Spitzzange / Pliers, Snipe Nose	150 mm
Verstellbare Kombizange / Pliers, Adjustable, Comb.	200 mm
Rundzange / Pliers, Round Nose	150 mm
Flachzange / Pliers, Flat Nose	150 mm
Seitenschneider / Pliers, Diagonal Cutting	150 mm
Schlitzschraubendreher / Slotted Screwdriver	75, 100, 150, 200 mm
Kreuzschlitzschraubendreher / Phillips Screwdriver	75, 100, 150, 200 mm
Schlitzschraubendreher, abgesetzt / Slotted Offset Screwdriver	6*72, 8*125, 10*196 mm
8-kant Meißel / Chisel 8 Point	16*160 mm
Schere / Shears, Cutting	150 mm
Messer / Knife, Common	250 mm
Spachtel / Knife, Putty	50*200 mm
Pinzette, spitz / Tweezers, Neat Tips	200 mm
Stange / Bar	19*500 mm
Anreißnadel / Marking Tool	250 mm
Brechstange / Bar, Wrecking	400 mm
Bügelsäge, Bügel / Hacksaw Frame	500 mm
Sägeblatt / Hacksaw Blade	300 mm
Kratzbürste, flach / Brush, Flat Back, Scratch	6*16mm

EM M-40 Werkzeugset 40-teilig / Tool Set-40pcs

Maße /
Dimensions
L*W*H:
570*370*210 mm



Werkzeuge / Tools	Beschreibung / Description
Fäustel / Hammer, Sledge	1kg
Klauenhammer / Hammer, Claw	0.23kg
Ausbeul- Kugelhammer / Hammer, Ball Pein	0.45kg
Rohrschlüssel / Wrench, Pipe	200 mm
Rollgabelschlüssel / Wrench, Adjustable	150, 250 mm
Kombizange / Pliers, Lineman	150 mm
Spitzzange / Pliers, Snipe Nose	150 mm
Flachzange / Pliers, Flat Nose	150 mm
Seitenschneider / Pliers, Diagonal Cutting	150 mm
Verstellb. Kombizange / Pliers, Adjustable, Comb.	150 mm
Kneifzange / Pincers	200 mm
Schere / Shears, Cutting	150 mm
Schlitzschraubendreher / Slotted Screwdriver	75, 100, 150 mm
Kreuzschlitzschraubendreher / Phillips Screwdriver	75, 100, 150 mm
Schlitzschraubendreher, abgesetzt / Slotted Offset Screwdriver	6*72, 8*125, 10*196mm
Inbusschlüssel / Wrench, Hex Key	3, 4, 5, 6, 7, 8 mm
6-kant Meißel / Chisel, 6 Point	16*160 mm
Brechstange / Bar Wrecking	250 mm
Messer / Knife, Common	250 mm
Spachtel / Knife, Putty	25*200 mm
Pinzette, spitz / Tweezers, Neat Tips	150 mm
Dreiecksfeile / File, Triangle	200 mm
Hör-Nadel / Hearing Needle	6*250 mm
Anreißnadel / Marking Tool	250 mm
Handsäge / Hand Saw	370 mm
Bügelsäge, Bügel / Hacksaw Frame	500 mm
Sägeblatt / Hacksaw Blade	300 mm
Bürste / Brush	6*16 mm

**EM O-50 Werkzeugset, 50-teilig /
Tool Set-50pcs**



**EM P-62 Werkzeugset, 62-teilig /
Tool Set-62pcs**



Werkzeuge / Tools	Beschreibung / Description
Fäustel / Hammer, Sledge	1.8 kg
Ausbeul- Kugelhammer / Hammer, Ball Pein	0.91 kg
Klauenhammer / Hammer, Claw	0.45 kg
Rohrzange / Wrench, Pipe	300, 450 mm
Rollgabelschlüssel / Wrench, Adjustable	200*24, 300*36 mm
Ringmaulschlüssel / Wrench, Comb.	8,10,12, 14, 17, 19, 22,24, 27, 30, 32 mm
Kombizange / Pliers, Lineman	200 mm
Spitzzange / Pliers, Long Nose	200 mm
Verstellb. Kombizange / Pliers, Adjustable Comb.	200 mm
Hebeisen / Bar, Pinch	Φ25*300 mm
Flachmeißel / Chisel, Flat	Φ25*300 mm
Durchtreiber / Punch, Machinists	Φ20*300 mm
Schlitzschraubendreher / Slotted, Screwdriver	100, 200 mm
Kreuzschlitzschraubendreher / Phillips, Screwdriver	100, 200 mm
Ventilgriff / Valve, Handle	400 mm
Messer / Knife, Common	250 mm
Bügel säge, Bügel / Hacksaw Frame	500 mm
Sägeblatt / Hacksaw Blade	300 mm
1/2" Steckschlüssel / 1/2" Socket	10, 11, 12, 14, 17, 19, 22,24, 27, 30, 32 mm
Ratschenschlüssel / Ratchet Wrench	250 mm
Verlängerung / Driver Extension	125, 250 mm
Schnellspanner / Speed Handle	400 mm
Flexibler T-Griff / Sliding T Handle	250 mm
Universalverbinder / Universal Joint	1/2"
Spachtel / Putty Knife	25*200 mm

Werkzeuge / Tools	Beschreibung / Description
Rollgabelschlüssel / Wrench, Adjustable	200, 250, 300 mm
Ringmaulschlüssel / Wrench, Comb.	8, 10, 12, 14, 17, 19, 22, 24, 27mm
Ringmaulschlüssel / Wrench, Comb.	3/8", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 1"
Rohrschlüssel / Wrench, Pipe	200, 350 mm
Nut- u- Federnzange / Pliers, Groove Joint	250 mm
Verstellb. Kombizange / Pliers, Adj., Comb.	150, 200 mm
Kombizange / Pliers, Lineman	200 mm
Spitzzange / Pliers, Snipe Nose	150 mm
Schlitzschraubendreher / Slotted Screwdriver	75, 100, 150, 200 mm
Kreuzschlitzschraubendreher / Phillips Screwdriver	75, 100, 150, 200 mm
Brechstange / Bar, Wrecking	400 mm
Hebeisen / Bar, Pinch	Φ19*500 mm
Messer / Knife, Common	250 mm
Spachtel / Knife, Putty	40*200, 50*200, 100*200 mm
Winkelschaber / Scraper, Deck	350 mm
Fass-Schlüssel / Wrench, Bung	385 mm
Flachmeißel / Chisel, Flat	16*160mm, 18*200mm
Schlosserhammer / Hammer, Cross Pein Eng	0.5kg, 1kg
Klauenhammer / Hammer, Claw	0.45kg
1/2"Socket	8, 10, 13, 14, 16, 17, 19, 21, 22, 26mm
Verlängerung / Driver Extension	200 mm
Ratschenschlüssel / Ratchet Wrench	245 mm
Gelenkgriff / Hinged Handle	250 mm

EM Q-100 Werkzeugset, 100-teilig Tool Set-100pcs



Maße / Dimensions L*W*H:625*375*745mm

Werkzeuge / Tools	Beschreibung / Description
Kugelhammer / Hammer, Ball Pein	0.23, 0.45 kg
Klauenhammer / Hammer, Claw	0.23 kg
Rollgabelschlüssel / Wrench, Adjustable	150, 200, 250 mm
Ringmaulschlüssel / Wrench, Combination	8, 10, 12, 14, 17, 19, 22, 24, 27, 30, 32 mm
Kombizange / Pliers, Lineman	200 mm
Spitzzange / Pliers, Snipe Nose	
Kombizange, verstellbar / Pliers, Adjustable Comb.	150 mm
Flachzange / Pliers, Flat Nose	150 mm
Kneifzange / Pincers	200 mm
Rundzange / Pliers, Round Nose	
Seitenschneider / Pliers, Diagonal Cutting	150 mm
Pinzette, spitz / Tweezer, Neat Tips	150 mm
Flachmeißel / Flat Chisel	14*160, 16*160, 18*160 mm
Zentrierstift / Centre Punch	Φ16*100, Φ18*200, Φ20*300 mm
Durchtreiber / Punch, Machinists	Φ18*160, Φ18*250, Φ20*300 mm
Schlitzschraubendreher / Slotted Screwdriver	5*75, 6*100, 7*150, 8*200, 9*300, 10*350 mm
Kreuzschlitzschraubendreher / Philips Screwdriver	5*75, 6*150, 8*250, 9*300 mm
Messer / Knife, Common	250 mm
Bügelsäge, Bügel / Hacksaw Frame	500 mm
Sägeblatt / Hacksaw Blade	300 mm
Handsäge / Hand Saw	370 mm
Flachschaber / Scraper, Flat	35*350 mm
Rundfeile mit Griff / Half Round With Handle	200 mm
Flachfeile mit Griff / File, Flat With Handle	200 mm
Feile, 4-kant mit Griff / File, Square With Handle	200 mm
Feile, 3-kant mit Griff / File, Triangle With Handle	200 mm
1/4" 3/8" Steckschlüssel / Socket	Set-20 Stück, pcs
3/4" 1" Steckschlüssel / Socket	Set-26 Stück, pcs
Torch	2"

EM R-120 Werkzeugset, 120-teilig / Tool Set-120pcs



Maße / Dimensions L/W/H 625*375*745mm

Werkzeuge / Tools	Beschreibung / Description
Ringmaulschlüssel / Wrench, Combination	8, 10, 12, 13, 14, 16, 17, 19, 22, 24, 27, 30, 32mm
Ventilgriff / Valve Handle	400mm
Fäustel / Hammer, Sledge	1kg, 1.8kg
Klauenhammer / Hammer, Claw	0.45kg
Kugelhammer / Hammer, Ball Pein	0.45kg
Rohrschlüssel / Wrench, Pipe	150, 200, 250, 300, 350mm
Rollgabelschlüssel / Wrench, Adjustable	150, 200, 250, 300 mm
Kombizange / Pliers, Lineman	150, 200 mm
Spitzzange / Pliers, Snipe Nose	150, 200 mm
Flachzange / Pliers, Flat Nose	150, 200 mm
Seitenschneider / Pliers, Diagonal Cutting	150, 200 mm
Verstellbare Zange / Pliers, Adjustable Comb.	150, 200 mm
Kneifzange / Pincers	200 mm
Schere / Shears, Cutting	150 mm
Nut- und Federnzange / Pliers, Groove Joint	250 mm
Schlitzschraubendreher / Slotted Screwdriver	75, 100, 150, 200 mm
Kreuzschlitzschraubendreher / Philips Screwdriver	75, 100, 150, 200 mm
Schlitzschraubendreher, abgesetzt / Slotted Offset Screwdriver	6*72, 8*125, 10*196 mm
Inbusschlüssel / Wrench, Hex Key	3, 4, 5, 6, 7, 8, 10 mm
Meißel / Chisel 6 Point	16*160 mm
Brechstange / Bar, Wrecking	250 mm
Fassschlüssel / Wrench, Bung	350 mm
Messer / Knife, Common	250 mm
Spachtel / Knife, Putty	25*200 mm
Pinzette, spitz / Tweezers, Neat Tips	150 mm
Dreiecksfeile / File, Triangle	200 mm
Hör-Nadel / Hearing Needle	6*250 mm
Anreißwerkzeug / Marking Tool	250 mm
Handsäge / Hand Saw	370 mm
Bügel Handsäge / Hacksaw Frame	500 mm
Sägeblatt / Hacksaw Blade	300 mm
Bürste / Brush	6*16 mm
1/2" Steckschlüsselsatz / Dr Socket	Set-28 pcs
3/4" Steckschlüsselsatz / Dr Socket	Set-21 pcs

EM S-176 Werkzeugset, 176-teilig
Tool Set-176pcs



EM S-A Inbusschlüssel-Set
Hex Key Wrench Set



Werkzeuge / Tools	Beschreibung / Description
Set-9	2,3,4,5,6,7,8,9,10 mm
Set-11	2,3,4,5,6,7,8,9,10,11,12 mm
Set-13	2,3,4,5,6,7,8,9,10,11,12,13,14 mm

EM T-6 Werkzeugset, 6-teilig
Tool Set-6pcs

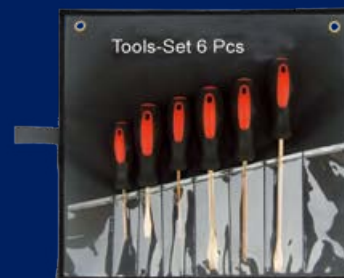
Maße /Dimensions L*W*H:1000*500*665mm

Werkzeuge / Tools	Beschreibung / Description	Quantity
Ringmaulschlüssel / Wrench, Combination	6, 8, 10, 12, 13, 14, 15, 16, 17, 19, 22, 24, 27, 30, 32 mm	2
Maulschlüssel, einfach / Wrench, Single Open End	41, 42, 44, 46, 48, 50, 55, 60 mm	2
Doppelmaulschlüssel / Wrench, Double Open End	8*10, 9*11, 12*14, 13*16, 16*18, 17*19, 20*22, 21*23, 24*27, 30*32 mm	2
Steckschlüssel, L-Form / Wrench, Socket L-Type	8, 10, 12, 13, 14, 15, 16, 17, 19, 22, 24, 27, 30, 32 mm	2
Inbusschlüssel / Wrench, Hex Key	8, 10, 12, 13, 14, 17, 19, 22 mm	2
Rollgabelschlüssel / Wrench, Adjustable	200, 300 mm	2
Schlitzschraubendreher / Slotted Screwdriver	100, 150, 200 mm	2
Kreuzschlitzschraubendreher / Philips Screwdriver	100, 150, 200 mm	2
Kombizange / Pliers, Lineman	200 mm	2
Wasserpumpenzange / Pliers, Groove Joint	250 mm	2
Schlagringschlüssel / Wrench, Striking Box	22, 24, 27, 30, 32, 34, 36, 38, 41, 46, 50, 55, 60, 65, 70 mm	2
6-kant Meißel / Chisel, Hex 6 Point	14*160 mm	3
Durchtreiber / Punch, Machinists	14*150 mm	3
Kratzbürste, flach / Brush, Flat Back, Scratch	205*48 mm	3
Bürste / Brush	290*29 mm	3
Hammer, Sledge	1, 1,8, 2,7, 4,5 kg	1



Werkzeuge / Tools	Beschreibung / Description
Schlitzschraubendreher / Slotted Screwdriver	5/16"*3"
Kreuzschlitzschraubendreher / Philips Screwdriver	#2*4"
Rollgabelschlüssel / Wrench, Adjustable	8"
Kistenöffner / Crate Opener	230 mm
Wasserpumpenzange / Pliers, Water Pump	10"
Kombizange / verstellbar / Pliers, Adjustable Combination	6"

EM V-6 Werkzeugset, 6-teilig
Tool Set-6pcs



Werkzeuge / Tools	Beschreibung / Description
Schlitzschraubendreher / Slotted Screwdriver	5/16"*3", 7/16"*6", 25/64"*8"
Kreuzschlitzschraubendreher / Philips Screwdriver	#1*3", #2*4", #3*6"

EM U-10 Werkzeugset, 10-teilig Tool Set-10pcs



Werkzeuge / Tools	Beschreibung / Description
Schlitzschraubendreher / Slotted Screwdriver	5/16"×3" #2×4"
Kreuzschlitzschraubendreher / Phillips Screwdriver	6", 10"
Rollgabelschlüssel / Wrench, Adjustable	0.45 kg 10"
Wasserpumpenzange / Pliers, Water Pump	1-1/4"×3-9/16"
Spachtel / Knife, Putty Knife, Common	3-1/8"
Pliers, Adjustable Combination	6"
Wrench, Pipe (American Type)	10"

EM Y-34 Werkzeugset, 34-teilig Tool Set-34pcs



Werkzeuge / Tools	Beschreibung / Description
Doppelmaulschlüssel / Wrench, Double Open End	6*7, 8*9, 9*11, 10*12, 11*13, 14*15, 16*18, 17*19, 20*22, 21*23, 24*26, 27*30, 32*36 mm
Inbusschlüssel / Wrench, Hex Key	1/16", 3/32", 2, 3, 4, 5, 6, 8, 10 mm
Schlitzschraubendreher / Slotted Screwdriver	8*150, 4*100, 4*75, 3*50 mm
Kreuzschlitzschraubendreher / Phillips Screwdriver	3*75, 5*100, 6*150 mm
Pinzette, spitz / Tweezers, Neat Tips	150 mm
Wasserpumpenzange / Pliers, Water Pump	250 mm
Rollgabelschlüssel / Wrench, Adjustable	250 mm
Seitenschneider / Pliers, Diagonal Cutting	6"
Wasserpumpenzange / Pliers, Water Pump	6"

EM X-16 Werkzeugset, 16-teilig Tool Set-16pcs



Werkzeuge / Tools	Beschreibung / Description
Schlitzschraubendreher / Slotted Screwdriver	5/16"×3"
Kreuzschlitzschraubendreher / Phillips Screwdriver	#3×6"
Rollgabelschlüssel / Wrench, Adjustable	8", 12"
Klauenhammer / Hammer, Claw	0.45 kg
Kistenöffner / Crate Opener	230 mm
Wasserpumpenzange / Pliers, Water Pump	10", 12"
Spachtel / Knife, Putty	1-1/4"×3-9/16"
Messer / Knife, Common	3-1/8", 5-3/4"
Spitzzange / Pliers, Snipe Nose	7"
Kombizange, verstellbar / Pliers, Adjustable Combination	8"
Schaber, Srühkabine / Scraper, Spray Booth	3"
Winkelschaber / Scraper, Deck	380 mm
Rohrzange / Wrench, Pipe (American Type)	14"
Fassschlüssel / Wrench, Bung	300 mm
Blechscherer / Shears, Tin	12"

EM W-21 Steckschlüssel-Set, 21-teilig Tool Set-21pcs



Werkzeuge / Tools	Beschreibung / Description
Steckschlüssel / Sockets	5/16", 3/8", 7/16", 1/2", 9/16", 19/32", 5/8", 11/16", 3/4", 25/32", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-1/4"
Gelenkgriff / Hinged Handle	1/2"×250 mm
Ratschenschlüssel / Ratchet Wrench	1/2"×245 mm
Verlängerung / Driver Extension	1/2"×250 mm
Quergriff / Sliding Bar	11"

**EM Z-85 Werkzeugsatz, 85-teilig /
Tool Set-85pcs**



Werkzeuge / Tools	Beschreibung / Description
Tweezers, Neat Tips	200 mm
Anreißwerkzeug / Marking Tool	200 mm
Messer / Knife, Common	250 mm
Schere / Scissors	225 mm
Bügelsäge, Bügel / Hacksaw Frame	500 mm
Sägeblatt / Hacksaw Blade	300 mm
Spachtel / Knife, Putty	40*200, 3*50, 4.5*150, 6*100 mm
Schlitzschraubendreher / Slotted Screwdriver	8*150, 10*300 mm
Kreuzschlitzschraubendreher, versetzt / Phillips Offset Screwdriver	6*150, 6*130, 10*140 mm
Kreuzschlitzschraubendreher / Philips Screwdriver	#1*75, #2*125, #3*200, #4*300 mm
Kombizange, verstellbar / Pliers, Adjustable Combination	200 mm
Flachzange / Pliers, Flat Nose	150 mm
Spitzzange / Pliers, Snipe Nose	150 mm
Seitenschneider / Pliers, Diagonal Cutting	150 mm
Abisolierzange / Wire Stripping Pliers	170 mm
Rundzange / Pliers, Round Nose	150 mm
Kombizange / Pliers, Lineman	200 mm
Rollgabelschlüssel / Wrench, Adjustable	150, 250 mm
Rohrschlüssel / Wrench, Pipe (American Type)	350 mm
Kugelhammer / Hammer, Ball Pein	0.45 kg
Cfäustel / lub Hammer	4p
Pneum. Meißel / Chisel, Pneumatic	16*160, 25*230 mm
Stange / Bar	16*455 mm
Brechstange / Bar, Wrecking	455 mm
Ratschenschlüssel / Ratchet Wrench	1/2"*245 mm
Quergriff, flexibel / Sliding T Handle	1/2"
Verlängerung / Driver Extension	1/2"*100, 1/2"*250 mm
Universalverbinder / Universal Joint	1/2"
Steckschlüsseleinsatz / Socket	10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30 mm
Inbusschlüssel / Wrench, Hex Key	7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8"

**EMF01A 1/4" Steckschlüssel-Set, 8-teilig /
1/4" Dr Socket Set-8pcs**

Gewicht / Weight
Be-Cu 0,71 kg

Gesenkschmiedeteil /
Die Forged

Beschreibung / Description
Steckschlüssel / Socket 4, 4.5, 5, 5.5, 6, 7, 8mm;
Handgriff / Driver Type Handle 55 mm



**EMF01B 1/4" Steckschlüssel-Set, 9-teilig /
1/4" Dr Socket Set-9pcs**

Gewicht / Weight
Be-Cu 740 g

Gesenkschmiedeteil /
Die Forged

Beschreibung / Description
Steckschlüssel / Socket 4, 5, 6, 7, 8, 9, 10, 11 mm
Handgriff / Driver Type Handle 55 mm



**EMF01C 3/8" Steckschlüssel-Set, 11-teilig /
3/8" Dr Socket Set-11pcs**

Gewicht / Weight
Be-Cu, 1,74 kg

Gesenkschmiedeteil /
Die Forged

Inhalt / Content
Steckschlüssel / Socket 10, 11, 12, 13, 14, 17, 19; 13/16"
Zündkerzenschlüssel / Spark Plug Ratschenschlüssel / Ratchet
Wrench 200 mm, Straight Joint Verlängerung / Driver
Extension 75 mm



**EMF01D 1/4*3/8" Steckschlüssel-Set, 21-teilig /
 1/4**3/8** Dr Socket Set-21pcs**

 Gesenkschmiedeteil /
 Die Forged

 Gewicht / Weight
 Be-Cu 2,13 kg


Inhalt / Content

 1/4"Steckschlüssel / Socket 4, 4.5, 5, 5.5, 6, 7, 8 mm
 Ratschenschlüssel / Ratchet Wrench 200mm, Gerade
 Verbindung / Straight Joint, Verlängerung / Verlängerung / Driver
 Extension 75, 150 mm, 3/8" Steckschlüssel / Socket 10, 11, 12,
 13, 14, 17, 19 mm, 13/16" Zündkerzenschlüssel / Spark Plug,
 Hand-Adapter / Adaptor Driver Type Handle 55mm

**EMF01G 1/2" Steckschlüssel-Set, 17-teilig /
 1/2" Dr Socket Set-17pcs**

 Gewicht / Weight
 Be-Cu 6.730g

 Gesenkschmiedeteil /
 Die Forged


Inhalt / Content

 Steckschlüssel / Socket 10, 11, 12, 14, 17, 19, 22, 24, 27, 30, 32
 mm, Ratschenschlüssel / Ratchet Wrench 245 mm
 Sliding T-Handle 250mm Drehgriff / Speed Handle 400 mm
 Verlängerung / Driver Extension 125, 250 mm
 Werkzeugkasten / Socket Case

**EMF01H 1/2" Steckschlüssel-Set, 24-teilig /
 1/2" Dr Socket Set-24pcs**

 Gewicht / Weight
 Be-Cu, 7,37 kg

 Gesenkschmiedeteil /
 Die Forged


Inhalt / Content

 Socket 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27,
 30, 32 mm, Ratschenschlüssel / Ratchet Wrench 245 mm, T-
 Drehgriff, flexibel / Sliding T-Handle 250 mm, Drehgriff / Speed
 Handle 400 mm, Verlängerung / Driver Extension 125, 250 mm
 Universalverbinder / Universal Joint 80 mm

**EMF01E 1/2 Steckschlüssel-Set, 9-teilig /
 1/2" Dr Socket Set-9pcs**

 Gewicht / Weight
 Be-Cu, 2,0 kg


Inhalt / Content

 Steckschlüsseleinsatz / Socket 10, 11, 12, 14, 17, 19, 22, 24 mm
 Gekröpfter Griff / Offset Handle 230 mm

**EMF01I 1/2" Steckschlüssel-Set, 21-teilig /
 1/2" Dr Socket Set-28pcs**

 Gewicht / Weight
 Be-Cu 9.050g

 Gesenkschmiedeteil /
 Die Forged


Inhalt / Content

 Steckschlüsseleinsatz / Socket 10, 11, 12, 13, 14, 15, 16, 17,
 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 30, 32 mm,
 Ratschenschlüssel / Ratchet Wrench 245 mm, T-Drehgriff,
 flexibel / Sliding T-Handle 250 mm Drehgriff / Speed Handle
 400mm, Verlängerung / Driver Extension 125, 250 mm,
 Universalverbinder / Universal Joint 80mm,
 Schlitzschraubendreher-Einsatz / Screwdriver Socket 52 mm,
 Werkzeugkasten / Socket Case

**EMF01F 1/2"Steckschlüssel-Set, 13-teilig /
 1/2" Dr Socket Set-13pcs**

 Gesenkschmiedeteil /
 Die Forged

 Gewicht / Weight
 Be-Cu, 3,39 kg


Inhalt / Content

 Socket 8, 10, 11, 12, 14, 17, 19, 22, 24, 27 mm
 Ratschenschlüssel / Ratchet Wrench 245mm, Gelenkgriff / Hinged
 Handle 250 mm, Werkzeugkasten / Socket Case

**EMF01J 1/2" Steckschlüssel-Set, 32-teilig /
1/2" Dr Socket Set-32pcs**

Gesenkschmiedeteil /
Die Forged

Be-Cu, 8,98 kg



Inhalt / Content

Socket 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 30, 32 mm 13/16", Zündkerzenschlüssel / Spark Plug Ratschenschlüssel / Ratchet Wrench 245 mm, T-Drehgriff, flexibel / Sliding T-Handle 250 mm, Drehgriff / Speed Handle 400 mm, Universalverbinder / Universal Joint 80mm Gekröpfter Griff / Offset Handle 230 mm, Verlängerung / Driver Extension 125, 250 mm, Schlitzschraubendreher-Einsatz / Screwdriver Socket 52 mm, Werkzeugkasten / Socket Case

**EMF01M 3/4" *1" Steckschlüssel-Set, 26-teilig /
3/4" *1" Dr Socket Set-26pcs**

Gewicht / Weight
Be-Cu, 24,9 kg

Gesenkschmiedeteil /
Die Forged



Inhalt / Content

Steckschlüsseleinsatz / Socket 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 34, 36, 38, 41, 46, 50, 55, 60, 65 mm
Ratschen-Schlüssel / Ratchet Wrench 160 mm
T-Drehgriff, flexibel / Sliding T-Handle 3/4" * 400
Verlängerung / Driver Extension 200, 430 3/4" * 120 mm /flexible
Kugel-Verbindung Flex Ball Joint , 3/4" * 1" T-Drehgriff, flexibel / Sliding T-Handle

**EMF01K 3/4" Steckschlüssel-Set, 14-teilig /
3/4" Dr Socket Set-14pcs**

Gesenkschmiedeteil /
Die Forged

Gewicht / Weight
Be-Cu, 13,24 kg



Inhalt / Content

Steckschlüsseleinsatz / Socket 21, 24, 27, 30, 32, 34, 36, 38, 41, 46, 50 mm, Ratschenschlüssel / Ratchet Wrench 320 mm, T-Drehgriff, flexibel / Sliding T-Handle 3/4" * 400 mm
Verlängerung / Driver Extension 200 mm

**EMF01N 1" Steckschlüssel-Set, 18-teilig /
1" Dr Socket Set-18pcs**

Be-Cu, 24,9 kg

Gesenkschmiedeteil /
Die Forged



Inhalt / Content

Steckschlüsseleinsatz / Socket 30, 31, 32, 34, 36, 38, 41, 46, 50, 55, 60, 65, 70, 75, 80 mm; T-Drehgriff, flexibel / Sliding T-Handle 3/4" * 1"; Verlängerung / Driver Extension 200 mm
Flexible Kugel-Verbindung / Flex Ball Joint 1" * 120 mm

**EMF01L 3/4" Steckschlüssel-Set, 21-teilig /
3/4" Dr Socket Set-21pcs**

Gesenkschmiedeteil /
Die Forged

Gewicht /
Weight:
Be-Cu 15.270g



Inhalt / Content

Socket 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 34, 36, 38, 41, 46, 50 mm, Ratschenschlüssel / Ratchet Wrench 320mm, T-Drehgriff, flexibel / Sliding T-Handle 3/4" * 400 mm
Verlängerung / Driver Extension 200 mm
Werkzeugkasten / Socket Case

EMF24A Arbeitshilfe / Labor Saving Wrench



Artikel / Article	size	BeCo (g)
EMF24A-1002	ZB-16	2000
EMF24A-1004	ZB-58	6850
EMF24A-1006	ZB-68	8050
EMF24A-1008	ZB-78	8300



EMH15 Verpackungs-Werkzeuge / Packing tools



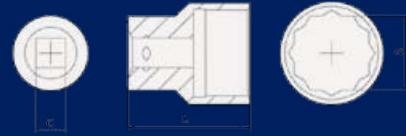
Artikel / Article	BeCo (g)
EMH15-1002	900

EMF02 – 04 Steckschlüsseleinsätze / Socket



DIN3120

Gesenkschmiedeteil /
Die Forged



EMF02 Steckschlüsseleinsatz / Socket C=1/4"

Artikel / Article	Größe / size (mm)	L (mm)	BeCo (g)
EMF02-4	4	25	11
EMF02-4.5	4.5	25	11
EMF02-5	5	25	12
EMF02-5.5	5.5	25	12
EMF02-6	6	25	13
EMF02-7	7	25	13
EMF02-8	8	25	15
EMF02-9	9	25	21
EMF02-10	10	25	22
EMF02-11	11	25	22
EMF02-12	12	26	25
EMF02-13	13	26	26
EMF02-14	14	26	27
EMF02-15	15	27	33
EMF02-16	16	27	34
EMF02-17	17	27	35
EMF02-18	18	27	36
EMF02-19	19	27	38

Artikel / Article	Größe / size (inch)	l (mm)	BeCo (g)
EMF02-1002	5/32	25	11
EMF02-1004	3/16	25	11
EMF02-1006	7/32	25	11
EMF02-1008	1/4	25	11
EMF02-1010	9/32	25	11
EMF02-1012	5/16	25	17
EMF02-1014	11/32	25	21
EMF02-1016	3/8	25	23
EMF02-1018	7/16	25	25
EMF02-1020	1/2	26	33

EMF03 Steckschlüsseleinsatz / Socket C=3/8"

Artikel / Article	Größe / size (mm)	L (mm)	BeCo (g)
EMF03-5	5	28	20
EMF03-5.5	5.5	28	21
EMF03-6	6	28	22
EMF03-7	7	28	22
EMF03-8	8	28	23
EMF03-9	9	28	24
EMF03-10	10	32	39
EMF03-11	11	32	40
EMF03-12	12	32	41
EMF03-13	13	32	42
EMF03-14	14	32	45
EMF03-15	15	32	50
EMF03-16	16	32	55
EMF03-17	17	32	59
EMF03-19	19	32	68
EMF03-20	20	32	72

EMF03 Steckschlüsseleinsatz / Socket C=3/8"

Artikel / Article	Größe / size (inch)	L (mm)	BeCo (g)
EMF03-1002	5/16	28	22
EMF03-1004	3/8	28	31
EMF03-1006	7/16	32	39
EMF03-1008	1/2	32	40
EMF03-1010	9/16	32	46
EMF03-1012	5/8	32	70
EMF03-1014	11/16	32	72
EMF03-1016	3/4	32	75
EMF03-1018	13/16	35	87
EMF03-1020	7/8	35	93
EMF03-1022	15/16	35	104

EMF04 Steckschlüsseleinsatz / Socket C=1/2"

Artikel / Article	Größe / size (inch)	L (mm)	BeCo (g)
EMF04-6	6	40	75
EMF04-7	7	40	77
EMF04-8	8	40	77
EMF04-9	9	40	78
EMF04-10	10	40	78
EMF04-11	11	40	79
EMF04-12	12	40	79
EMF04-13	13	40	80
EMF04-14	14	40	80
EMF04-15	15	40	82
EMF04-16	16	40	85
EMF04-17	17	40	88
EMF04-18	18	42	90
EMF04-19	19	42	110
EMF04-20	20	42	120
EMF04-21	21	43	125
EMF04-22	22	43	130
EMF04-23	23	43	150
EMF04-24	24	43	165
EMF04-25	25	43	180
EMF04-26	26	43	200
EMF04-27	27	46	215
EMF04-28	28	46	225
EMF04-29	29	46	235
EMF04-30	30	46	250
EMF04-32	32	46	295

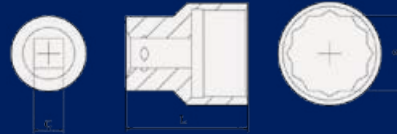
Artikel / Article	Größe / size (inch)	L (mm)	BeCo (g)
EMF04-1002	5/16	40	70
EMF04-1004	3/8	40	78
EMF04-1006	7/16	40	79
EMF04-1008	1/2	40	80
EMF04-1010	9/16	40	80
EMF04-1012	5/8	40	88
EMF04-1014	11/16	40	93
EMF04-1016	3/4	42	110
EMF04-1018	13/16	43	125
EMF04-1020	7/8	43	130
EMF04-1022	15/16	43	165
EMF04-1024	1	43	190
EMF04-1026	1-1/16	46	215
EMF04-1028	1-1/4	46	295
EMF04-1030	1-7/16	50	330

EMF05-06 Steckschlüsseleinsätze / Socket



DIN3120

Gesenkschmiedeteil /
Die Forged



EMF05 Steckschlüsseleinsatz / Socket C=3/4"

Artikel / Article	Größe / size (mm)	L (mm)	BeCo (g)
EMF05-17	17	50	246
EMF05-19	19	50	246
EMF05-21	21	55	268
EMF05-22	22	55	268
EMF05-23	23	55	306
EMF05-24	24	55	307
EMF05-26	26	55	307
EMF05-27	27	55	312
EMF05-28	28	55	339
EMF05-29	29	55	350
EMF05-30	30	60	410
EMF05-31	31	60	430
EMF05-32	32	60	465
EMF05-34	34	60	480
EMF05-36	36	60	510
EMF05-38	38	60	555
EMF05-41	41	65	660
EMF05-46	46	65	765
EMF05-50	50	70	910

Artikel / Article	Größe / size (inch)	L (mm)	BeCo (g)
EMF05-1002	3/4	50	240
EMF05-1004	13/16	55	262
EMF05-1006	7/8	55	267
EMF05-1008	15/16	55	305
EMF05-1010	1	55	310
EMF05-1012	1-1/16	55	315
EMF05-1014	1-1/8	55	345
EMF05-1016	1-3/16	60	400
EMF05-1018	1-1/4	60	437
EMF05-1020	1-5/16	60	472
EMF05-1022	1-3/8	60	515
EMF05-1024	1-7/16	60	525
EMF05-1026	1-1/2	60	580
EMF05-1028	1-5/8	65	702
EMF05-1030	1-3/4	65	761
EMF05-1032	1-13/16	65	830
EMF05-1034	1-7/8	65	850
EMF05-1036	2	70	965

EMF06 Steckschlüsseleinsatz / Socket C=1"

Artikel / Article	Größe / size (mm)	L (mm)	BeCo (g)
EMF06-22	22	55	361
EMF06-24	24	55	372
EMF06-25	25	55	377
EMF06-26	26	55	383
EMF06-27	27	55	394
EMF06-28	28	55	397
EMF06-29	29	55	399
EMF06-30	30	60	443
EMF06-31	31	60	448
EMF06-32	32	60	481
EMF06-34	34	60	497
EMF06-36	36	65	550
EMF06-38	38	65	620
EMF06-41	41	70	690
EMF06-46	46	75	850
EMF06-50	50	75	850
EMF06-55	55	80	1160
EMF06-60	60	85	1390
EMF06-65	65	90	1750
EMF06-70	70	90	2150
EMF06-75	75	95	2680
EMF06-80	80	95	2930

Artikel / Article	Größe / size (inch)	L (mm)	BeCo (g)
EMF06-1002	1-1/16	55	394
EMF06-1004	1-1/8	55	398
EMF06-1006	1-3/16	60	442
EMF06-1008	1-1/4	60	470
EMF06-1010	1-5/16	60	483
EMF06-1012	1-3/8	60	490
EMF06-1014	1-7/16	65	560
EMF06-1016	1-1/2	65	620
EMF06-1018	1-5/8	70	690
EMF06-1020	1-7/8	75	850
EMF06-1022	2	75	960
EMF06-1024	12-1/4	80	1250
EMF06-1026	2-1/2	90	1590
EMF06-1028	2-3/4	90	2050
EMF06-1030	3	95	2270

EMF07-10 Kraft-Steckschlüsseinsatz / Impact Socket



DIN3129

DIN3120

Gesenkschmiedeteil /

Die Forged

EMF07 Kraft-Steckschlüsseinsatz / Impact Socket C=3/4"

Artikel / Article	Größe / size (mm)	L (mm)	BeCo (g)
EMF07-24	24	50	380
EMF07-27	27	53	405
EMF07-30	30	53	440
EMF07-32	32	56	475
EMF07-36	36	56	650
EMF07-41	41	60	695
EMF07-46	46	60	770
EMF07-50	50	70	1100

EMF09 Kraft-Steckschlüsseinsatz / Impact Socket C=1-3/16"

Artikel / Article	Größe / size (mm)	L (mm)	BeCo (g)
EMF09-50	50	90	1930
EMF09-52	52	90	2005
EMF09-55	55	90	2180
EMF09-58	58	90	2200
EMF09-60	60	90	2290
EMF09-65	65	90	2610
EMF09-70	70	90	2840
EMF09-75	75	90	3190
EMF09-80	80	90	3605

EMF08 Kraft-Steckschlüsseinsatz / Impact Socket C=1"

Artikel / Article	Größe / size (mm)	L (mm)	BeCo (g)
EMF08-19	19	55	630
EMF08-21	21	55	640
EMF08-22	22	55	650
EMF08-24	24	55	660
EMF08-26	26	55	735
EMF08-27	27	55	735
EMF08-29	29	60	760
EMF08-30	30	60	765
EMF08-32	32	60	775
EMF08-34	34	60	775
EMF08-35	35	60	775
EMF08-36	36	60	775
EMF08-38	38	65	865
EMF08-41	41	70	930
EMF08-46	46	75	1380
EMF08-50	50	75	1455
EMF08-52	52	75	1715
EMF08-55	55	75	1830
EMF08-58	58	85	2080
EMF08-60	60	85	2200
EMF08-65	65	85	2460
EMF08-70	70	90	2890
EMF08-75	75	90	3155
EMF08-80	80	90	3560

EMF10 Kraft-Steckschlüsseinsatz / Impact Socket C=1-1/4"

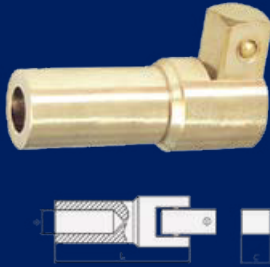
Artikel / Article	Größe / size (mm)	L (mm)	BeCo (g)
EMF10-50	50	90	1950
EMF10-60	60	90	2300
EMF10-70	70	90	2750

EMF10A Kraft-Steckschlüsseinsatz / Impact Socket C=1-1/2"

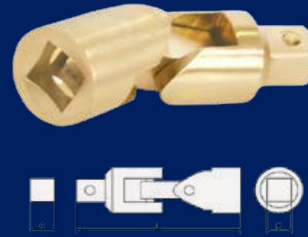
Artikel / Article	Größe / size (mm)	L (mm)	BeCo (g)
EMF10A-55	55	90	2020
EMF10A-60	60	90	2360
EMF10A-65	65	95	2390
EMF10A-70	70	95	2670
EMF10A-75	75	100	3180
EMF10A-80	80	100	3460
EMF10A-85	85	110	3950
EMF10A-90	90	110	4230

EAI0573CB, Kälteknarre mit Einsatz / Refrigeration ratchet with insert 1/4"X1/4, 10X10 mm

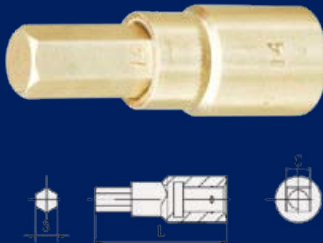


EMF11 Flexibles Gelenk / Flex Ball Joint


Artikel / Article	C (inch)	L (mm)	Φ (mm)	BeCo (g)
EMF11-1002	3/4	120	21	880
EMF11-1004	1	120	21	1160

EMF12 Kardangelen / Universal Joint
DIN3123


Artikel / Article	C (inch)	L (mm)	BeCo (g)
EMF12-1002	1/2	80	186
EMF12-1004	3/4	110	530
EMF12-1006	1	132	1000

EMF11A Innen 6-kant Einsatz / Internal Hexagon Socket


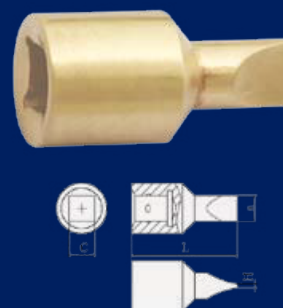
Artikel / Article	C (inch)	S (mm)	L (mm)	BeCo (g)
EMF11A-1002	1/4	3	55	17
EMF11A-1004	1/4	4	55	17
EMF11A-1006	1/4	5	55	20
EMF11A-1008	1/4	6	55	26
EMF11A-1010	1/4	7	55	30
EMF11A-1012	1/4	8	65	45
EMF11A-1014	1/4	9	65	55
EMF11A-1016	1/4	10	65	65

EMF11B 3-kant Steckschlüssel / Socket Wrench, Triangular


Artikel / Article	C (inch)	M (mm)	L (mm)	BeCo (g)
EMF11B-1002	1/2	6	40	75
EMF11B-1004	1/2	8	40	80
EMF11B-1006	1/2	10	40	85
EMF11B-1008	1/2	12	40	95
EMF11B-1010	1/2	16	50	180
EMF11B-1012	1/2	20	50	250
EMF11B-1014	1/2	24	60	470

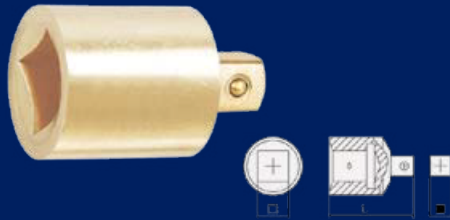
EMF11C Zündkerzenschlüssel / Spark Plug Socket


Artikel / Article	C (inch)	S (inch)	L (mm)	BeCo (g)
EMF11C-1002	3/8	13/16	62	180
EMF11C-1004	1/2	13/16	62	160

EMF14 Schraubendreheraufsatz / Screwdriver Socket


Artikel / Article	C (inch)	L (mm)	H (mm)	B (mm)	BeCo (g)
EMF14-1002	1/2	52	2	13	102

EMF13 Adapter / Adaptor



Artikel / Article	□(inch)	■(inch)	L (mm)	BeCo (g)
EMF13-1002	3/8	1/4	26	22
EMF13-1004	1/4	3/8	22	22
EMF13-1006	1/2	3/8	34	80
EMF13-1008	3/8	1/2	34	50
EMF13-1010	3/4	1/2	55	290
EMF13-1012	1/2	3/4	50	170
EMF13-1014	1	3/4	70	855
EMF13-1016	3/4	1	60	360
EMF13-1018	1-1/2	1	85	1675
EMF13-1020	1	1-1/2	85	1230

EMF17 T-Drehgriff / Sliding T Handle



DIN3122

Artikel / Article	C (inch)	L (mm)	H (mm)	Φ (mm)	BeCo (g)
EMF17-1002	1/2	250	39	13	340
EMF17-1004	3/4	350	54	19	1070
EMF17-1006	3/4	400	56	21	1335
EMF17-1008	1	400	62	21	1620

EMF18 Gelenkgriff / Hinged Handle



DIN3122

Artikel / Article	C (inch)	L (mm)	L1 (mm)	BeCo (g)
EMF18-1002	3/8	190	175	245
EMF18-1004	1/2	250	230	440
EMF18-1006	1/2	320	300	565
EMF18-1008	1/2	400	380	645
EMF18-1010	3/4	286	260	635
EMF18-1012	1	304	270	910

EMF15 Ratschenschlüssel / Ratchet Wrench

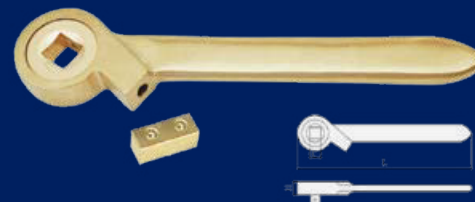


DIN3122



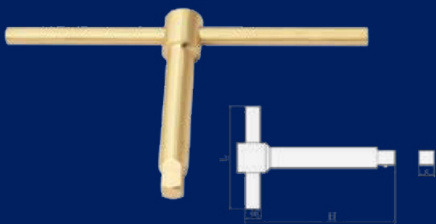
Artikel / Article	C (inch)	L (mm)	Φ (mm)	H (mm)	BeCo (g)
EMF15-1002	3/4	160	21	55	1660
EMF15-1004	1	180	23	60	3270

EMF19 Ratschenschlüssel / Ratchet Wrench



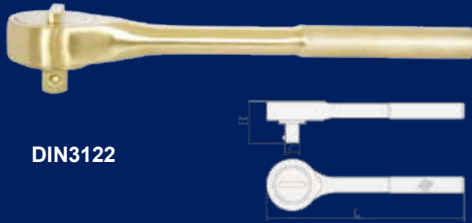
Artikel / Article	C (inch)	L (inch)	H (mm)	BeCo (g)
EMF19-1002	1/4	200	16.5	350
EMF19-1004	3/8	175	16.5	335
EMF19-1006	3/8	200	16.5	400
EMF19-1008	1/2	250	16.5	535
EMF19-1010	3/4	300	22	1290
EMF19-1012	1	300	22	1590

EMF16 T-Drehgriff / Sliding T Type Wrench



Artikel / Article	C (inch)	L (mm)	Φ (mm)	H (mm)	BeCo (g)
EMF16-1002	3/4	350	19	200	1705
EMF16-1004	1	400	21	200	2590

EMF20 Ratschenschlüssel / Ratchet Wrench



DIN3122

Artikel / Article	C (inch)	L (mm)	H (mm)	BeCo (g)
EMF20-1002	3/8	200	30	290
EMF20-1004	1/2	245	43	690
EMF20-1006	3/4	320	57	1570
EMF20-1008	1	550	67	3400

EMF21 Versetzer Griff / Offset Handle



DIN3122

Artikel / Article	C (inch)	L (mm)	H (mm)	BeCo (g)
EMF21-1002	3/8	200	50	314
EMF21-1004	1/2	230	60	410
EMF21-1006	3/4	280	75	765
EMF21-1008	1	300	85	1160

EMF22 Verlängerung / Driver Extension



Artikel / Article	C (inch)	L (mm)	BeCo (g)
EMF22-1002	3/8	75	93
EMF22-1004	3/8	150	185
EMF22-1006	1/2	100	245
EMF22-1008	1/2	125	260
EMF22-1010	1/2	200	365
EMF22-1012	1/2	250	470
EMF22-1014	3/4	200	855
EMF22-1016	1	200	1525

EMF21A L-Winkelsteckschlüssel / Wrench, Socket L-Type



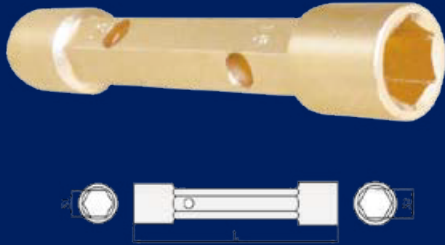
Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF21A-6	6	120	29	100
EMF21A-8	8	144	33	150
EMF21A-10	10	168	37	200
EMF21A-12	12	216	42	220
EMF21A-13	13	240	45	250
EMF21A-14	14	245	45	300
EMF21A-15	15	250	48	350
EMF21A-16	16	255	48	500
EMF21A-17	17	260	51	550
EMF21A-18	18	265	53	550
EMF21A-19	19	270	55	550
EMF21A-20	20	272	57	600
EMF21A-21	21	275	57	750
EMF21A-22	22	278	59	750
EMF21A-23	23	282	60	800
EMF21A-24	24	286	63	850
EMF21A-27	27	294	69	900
EMF21A-30	30	302	75	1000
EMF21A-32	32	310	81	1100
EMF21A-36	36	330	85	1300
EMF21A-41	41	350	90	1380

EMF21B T-Griff, flexibel / Sliding T Type Wrench



Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF21B-7	7	120	120	100
EMF21B-9	9	130	130	155
EMF21B-11	11	140	150	190
EMF21B-14	14	150	170	265
EMF21B-17	17	170	190	410
EMF21B-19	19	180	210	535
EMF21B-22	22	190	240	750
EMF21B-24	24	200	270	950
EMF21B-27	27	200	270	1110
EMF21B-30	30	200	280	1340
EMF21B-32	32	200	280	1440
EMF21B-36	36	200	280	1980

**EMF21C Doppelsteckschlüssel, /
Socket, Double End**



Artikel / Article	S1*S2 (mm)	L (mm)	BeCo (g)
EMF21C-0607	6*7	105	70
EMF21C-0809	8*9	115	90
EMF21C-1011	10*11	120	110
EMF21C-1213	12*13	140	170
EMF21C-1415	14*15	140	255
EMF21C-1617	16*17	155	440
EMF21C-1819	18*19	165	520
EMF21C-2022	20*22	175	630
EMF21C-2123	21*23	185	670
EMF21C-2427	24*27	195	870
EMF21C-2528	25*28	205	965
EMF21C-2730	27*30	210	1000

EMF23 Drehgriff / Speed Handle

DIN3122



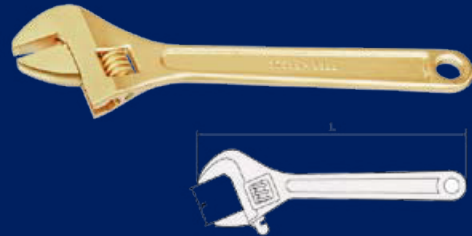
Artikel / Article	C (inch)	L (mm)	H (mm)	BeCo (g)
EMF23-1002	1/2	390	96	780

EMF24 Griff / Driver Type Handle



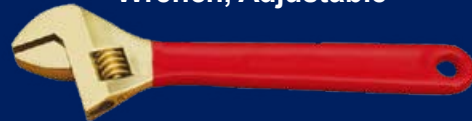
Artikel / Article	C (inch)	L (mm)	L1 (mm)	BeCo (g)
EMF24-1002	1/4	163	55	85

**EMF25 Rollgabelschlüssel /
Wrench, Adjustable**



Artikel / Article	L (mm)	Kmax (mm)	BeCo (g)
EMF25-1002	100	13	33
EMF25-1004	150	18	135
EMF25-1006	200	24	281
EMF25-1008	250	30	440
EMF25-1010	300	36	720
EMF25-1012	375	46	1410
EMF25-1014	450	55	2261
EMF25-1016	600	65	4705

**EMF25A Rollgabelschlüssel /
Wrench, Adjustable**

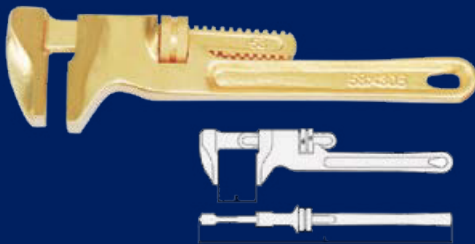


Artikel / Article	L (mm)	Kmax (mm)	BeCo (g)
EMF25A-1002	100	13	33
EMF25A-1004	150	18	135
EMF25A-1006	200	24	281
EMF25A-1008	250	30	440
EMF25A-1010	300	36	720
EMF25A-1012	375	46	1410
EMF25A-1014	450	55	2261
EMF25A-1016	600	65	4705

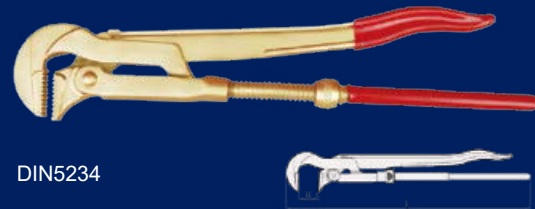
**EMF26 Rollgabelschlüssel /
Wrench, Adjustable**



Artikel / Article	L (mm)	Kmax (mm)	H (mm)	BeCo (g)
EMF26-1002	350	36	80	1384

EMF27 Universalschlüssel / Wrench, Monkey


Artikel / Article	L (mm)	Kmax (mm)	BeCo (g)
EMF27-1002	240	45	510
EMF27-1004	254	48	615
EMF27-1006	305	58	910
EMF27-1008	350	65	1220
EMF27-1010	380	70	1465

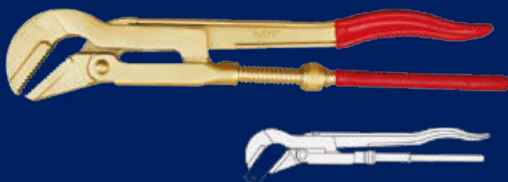
EMF28B Rohrzanze, Schwedische Ausführung / Wrench, Swedish Type 90°


DIN5234

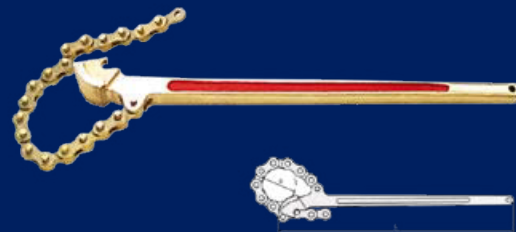
Artikel / Article	L (mm)	K (mm)	BeCo (g)
EMF28B-1002	430	38	1480

EMF28 Rohrzanze, schwedische Ausführung / Wrench, Swedish Type 45°

DIN5234



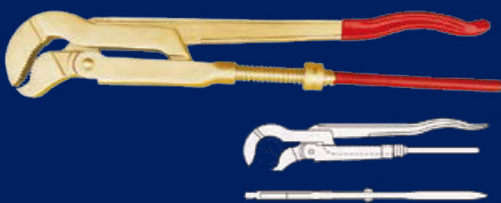
Artikel / Article	L (mm)	K (mm)	BeCo (g)
EMF28-1002	430	38	1550
EMF28-1004	530	50	2230

EMF29A Kettenrohrzanze, leicht / Wrench, Chain Pipe Light


Artikel / Article	L (mm)	Dmax (mm)	BeCo (g)
EMF29A-1002	600	100	2105
EMF29A-1004	1600	450	10500

EMF28A Rohrzanze, schwedische Ausführung / Wrench, Swedish Type

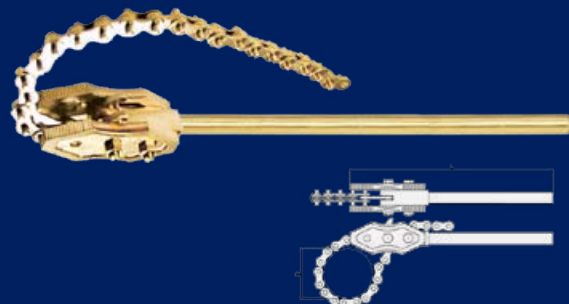
DIN5234



Artikel / Article	L (mm)	D (inch)	BeCo (g)
EMF28A-1002	530	2	2605
EMF28A-1004	650	3	4500
EMF28A-1006	790	4	6200

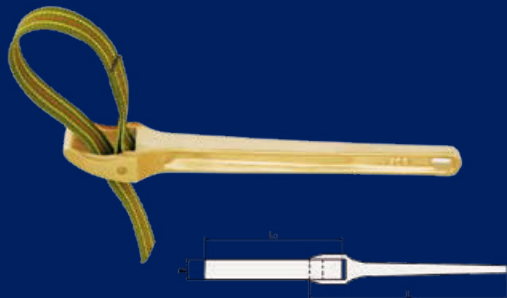
EMF29 Kettenrohrzanze, schwer / Wrench, Chain Pipe

DIN17200



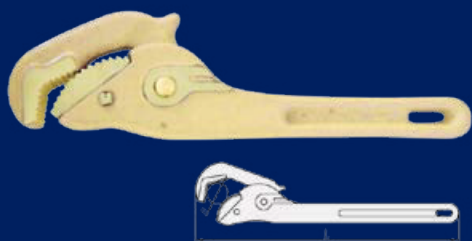
Artikel / Article	L (mm)	Dmax (mm)	BeCo (g)
EMF29-1002	600	100	3955
EMF29-1004	600	150	4650
EMF29-1006	900	200	8600
EMF29-1008	900	300	9810

EMF29B Bandrohrzange / Wrench, Belt Pipe



Artikel / Article	L (mm)	L1 (mm)	B (mm)	BeCo (g)
EMF29B-1002	300	425	30	810

EMF29C Universalzange / Universal Wrench



Artikel / Article	L (mm)	D (mm)	BeCo (g)
EMF29C-1002	250	10-30	870
EMF29C-1004	450	30-60	2450

EMF30A Rohrzange / Wrench, Pipe



Artikel / Article	L (mm)	Kmax (mm)	BeCo (g)
EMF30A-1002	200	25	420
EMF30A-1004	250	30	610
EMF30A-1006	300	40	787
EMF30A-1008	350	50	1155
EMF30A-1010	450	60	1874
EMF30A-1012	600	75	3417
EMF30A-1014	900	125	6336
EMF30A-1016	1200	150	12894

EMF31A Rohrschlüssel Amerik. Ausführung / Wrench, Pipe (American Type)



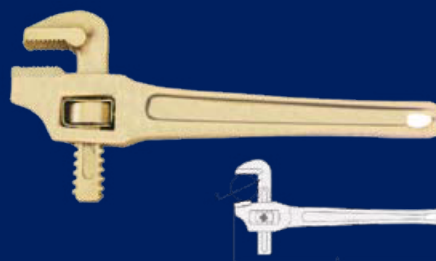
Artikel / Article	L (mm)	Kmax (mm)	BeCo (g)
EMF31A-1002	200	25	460
EMF31A-1004	250	30	810
EMF31A-1006	300	40	1158
EMF31A-1008	350	50	1450
EMF31A-1010	450	60	2485
EMF31A-1012	600	75	3820
EMF31A-1014	900	85	6482
EMF31A-1016	1200	110	13890

EMF31B Rohrschlüssel, Diagonaler Typ / Wrench, Pipe (Diagonal Type)

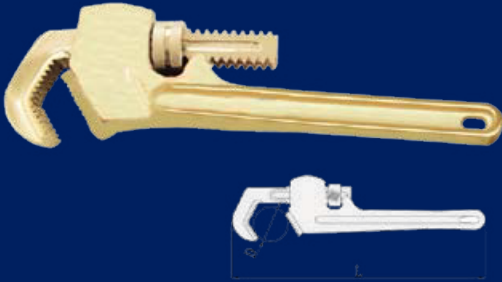


Artikel / Article	L (mm)	Dmax (mm)	BeCo (g)
EMF31B-1002	200	34	560
EMF31B-1004	250	48	930
EMF31B-1006	300	50	1470
EMF31B-1008	375	60	1780
EMF31B-1010	450	76	2650

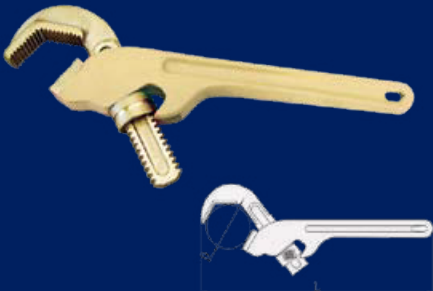
EMF31C Rohrzange, abgewinkelt / Wrench, Pipe (Bent Type)



Artikel / Article	L (mm)	Dmax (mm)	BeCo (g)
EMF31C-1002	200	34	500
EMF31C-1004	250	48	850
EMF31C-1006	300	50	1200
EMF31C-1008	375	60	1950
EMF31C-1010	450	76	2730

**EMF31D Rollgabelschlüssel, 6-kant /
 Wrench, Pipe (Hex Type)**


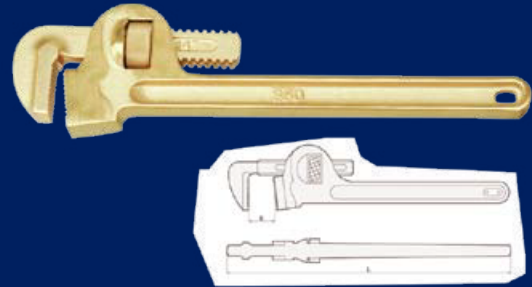
Artikel / Article	L (mm)	Dmax (mm)	BeCo (g)
EMF31D-1002	250	30	1250
EMF31D-1004	350	30	1785

**EMF31E Rollgabelschlüssel, abgewinkelt
 6-kant / Wrench, Pipe (Bent & Hex Type)**


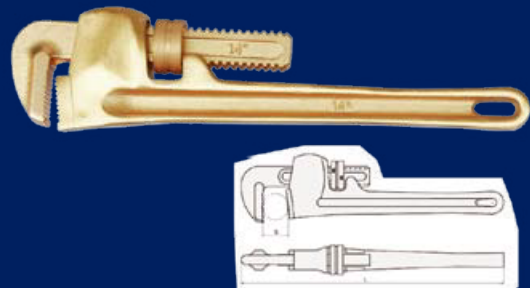
Artikel / Article	L (mm)	Dmax (mm)	BeCo (g)
EMF31E-1002	250	30	1250
EMF31E-1004	350	30	1785

**EMF31F Rohrzanze mit Schnellgriff /
 Wrench, Pipe (Rapid Grip)**


Artikel / Article	L (mm)	Dmax (mm)	BeCo (g)
EMF31F-1002	250	48	980
EMF31F-1004	350	60	1900

EMF30 Rohrzanze / Wrench, Pipe


Artikel / Article	L (mm)	Dmax (mm)	BeCo (g)
EMF30-1002	200	25	420
EMF30-1004	250	30	610
EMF30-1006	300	40	787
EMF30-1008	350	50	1155
EMF30-1010	450	60	1874
EMF30-1012	600	75	3417
EMF30-1014	900	125	6336
EMF30-1016	1200	150	12894

**EMF31 Rollgabelschlüssel, amerikanische
 Ausführung / Wrench, Pipe (American Type)**


Artikel / Article	L (mm)	Kmax (mm)	BeCo (g)
EMF31-1002	200	25	460
EMF31-1004	250	30	810
EMF31-1006	300	40	1158
EMF31-1008	350	50	1450
EMF31-1010	450	60	2485
EMF31-1012	600	75	3820
EMF31-1014	900	85	6482
EMF31-1016	1200	110	13890

**EMF32 Ringmaulschlüsselsatz 9 Teile /
Set-9pcs Wrench, Combination**



Artikel / Article	S (mm)	BeCo (g)
EMF32	8,10,12,14,17,19,22,24,27	1815

**EMF33 Ringmaulschlüsselsatz, 11-teilig /
Set-11pcs Wrench, Combination**

Artikel / Article	S	BeCo (g)
EMF33	8,10,12,14,17,19,22,24, 27,30,32 mm	3235

**EMF34 Ringmaulschlüsselsatz, 13-teilig /
Set-13pcs Wrench, Combination**

Artikel / Article	S	BeCo (g)
EMF34	8, 10, 12, 13, 14, 16, 17, 19, 22, 24, 27, 30, 32 mm	3485

**EMF36A Ratschenmaulschlüssel /
Wrench, Combination Ratchet**



Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF36A-17	17	220	250
EMF36A-19	19	240	310
EMF36A-22	22	270	420
EMF36A-24	24	290	570
EMF36A-27	27	315	750
EMF36A-30	30	350	1000
EMF36A-32	32	370	1155

**EMF35 Ringmaulschlüssel /
Wrench, Combination**



DIN3113



Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF35-6	6	105	22
EMF35-7	7	120	37
EMF35-8	8	120	37
EMF35-9	9	135	55
EMF35-10	10	135	55
EMF35-11	11	150	75
EMF35-12	12	150	75
EMF35-13	13	175	122
EMF35-14	14	175	122
EMF35-15	15	195	160
EMF35-16	16	195	155
EMF35-17	17	195	155
EMF35-18	18	215	210
EMF35-19	19	215	210
EMF35-20	20	230	225
EMF35-21	21	230	225
EMF35-22	22	245	250
EMF35-23	23	265	265
EMF35-24	24	265	260
EMF35-25	25	265	260
EMF35-26	26	290	420
EMF35-27	27	290	420
EMF35-30	30	320	560
EMF35-32	32	340	670
EMF35-34	34	360	850
EMF35-35	35	360	890
EMF35-36	36	360	890
EMF35-38	38	430	1440
EMF35-41	41	430	1440
EMF35-46	46	480	1890
EMF35-50	50	520	2220
EMF35-55	55	560	2460
EMF35-60	60	595	3300
EMF35-65	65	595	3250
EMF35-70	70	630	4550

Artikel / Article	S (inch)	L (mm)	BeCo (g)
EMF35A-1002	1/4	105	22
EMF35A-1004	5/16	120	37
EMF35A-1006	3/8	135	55
EMF35A-1008	7/16	150	75
EMF35A-1010	1/2	175	125
EMF35A-1012	9/16	175	122
EMF35A-1014	19/32	195	160
EMF35A-1016	5/8	195	155
EMF35A-1018	11/16	195	155
EMF35A-1020	3/4	215	210
EMF35A-1022	13/16	230	225
EMF35A-1024	7/8	245	250
EMF35A-1026	15/16	265	260
EMF35A-1028	1	265	260
EMF35A-1030	1-1/16	290	420
EMF35A-1032	1-1/8	320	560
EMF35A-1034	1-3/16	320	560
EMF35A-1036	1-1/4	340	670
EMF35A-1038	1-5/16	360	850
EMF35A-1040	1-3/8	360	890

EMF36 Ringmaulschlüssel / Wrench, Combination



DIN3113



Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF36-6	6	105	18
EMF36-7	7	120	40
EMF36-8	8	120	40
EMF36-9	9	135	45
EMF36-10	10	135	45
EMF36-11	11	150	65
EMF36-12	12	150	65
EMF36-13	13	175	90
EMF36-14	14	175	90
EMF36-15	15	195	140
EMF36-16	16	195	140
EMF36-17	17	195	140
EMF36-18	18	215	180
EMF36-19	19	215	180
EMF36-20	20	215	180
EMF36-21	21	245	280
EMF36-22	22	245	280
EMF36-23	23	265	320
EMF36-24	24	265	320
EMF36-25	25	265	500
EMF36-26	26	290	500
EMF36-27	27	290	500
EMF36-30	30	320	700
EMF36-32	32	340	780
EMF36-34	34	360	1000
EMF36-36	36	360	1000
EMF36-38	38	430	1450
EMF36-41	41	430	1420
EMF36-46	46	480	1760
EMF36-50	50	520	2020
EMF36-55	55	560	2000
EMF36-60	60	595	2920
EMF36-65	65	595	3440
EMF36-70	70	630	4130
EMF36-75	75	630	4000
EMF36-80	80	660	5400
EMF36-85	85	660	5320
EMF36-90	90	720	7100
EMF36-95	95	720	7000
EMF36-100	100	780	8950
EMF36-110	110	780	10350
EMF36-120	120	900	12750

EMF36B Ringmaulschlüssel / Wrench, Combination



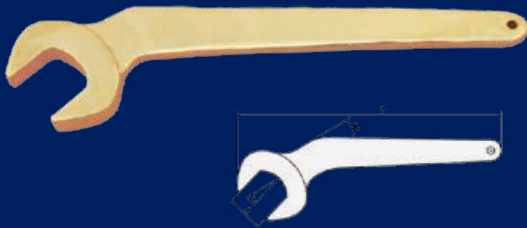
Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF36B-17	17	195	161
EMF36B-19	19	215	210
EMF36B-22	22	245	280
EMF36B-24	24	265	380
EMF36B-27	27	285	484
EMF36B-30	30	310	656
EMF36B-32	32	330	770
EMF36B-36	36	345	1090
EMF36B-41	41	366	1220
EMF36B-46	46	405	1550
EMF36B-50	50	420	1735
EMF36B-55	55	445	2210
EMF36B-60	60	462	2585
EMF36B-65	65	470	2980

EMF37 Ringmaulschlüssel / Wrench, Combination



Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF37-17	17	240	230
EMF37-19	19	270	280
EMF37-21	21	290	380
EMF37-22	22	295	440
EMF37-24	24	320	460
EMF37-27	27	350	605

**EMF38 Maulschlüssel, abgewinkelt /
Wrench, Bent Open End**



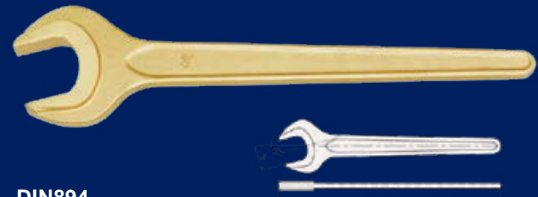
Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF38-12	12	120	55
EMF38-14	14	130	90
EMF38-17	17	150	125
EMF38-19	19	170	180
EMF38-22	22	190	250
EMF38-24	24	210	255
EMF38-27	27	230	380
EMF38-30	30	250	490
EMF38-32	32	270	590
EMF38-34	34	280	720
EMF38-36	36	290	850
EMF38-41	41	310	1090
EMF38-46	46	330	1340
EMF38-50	50	350	1615
EMF38-55	55	370	2135

**EMF39 Maulschlüssel mit Pin /
Wrench, Construction With Pin**



Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF39-17	17	220	125
EMF39-19	19	240	160
EMF39-22	22	260	210
EMF39-24	24	280	265
EMF39-27	27	300	350
EMF39-30	30	320	445
EMF39-32	32	340	530
EMF39-36	36	360	720
EMF39-41	41	380	1010
EMF39-46	46	400	1115
EMF39-50	50	420	1165
EMF39-55	55	450	1485
EMF39-60	60	480	2015

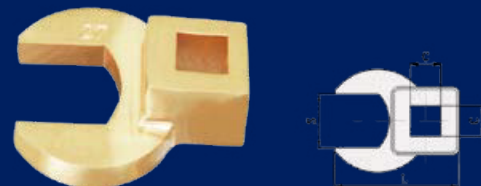
**EMF40 Maulschlüssel,
Wrench, Single Open End**



DIN894

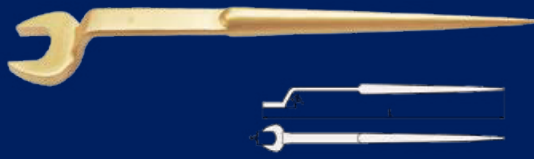
Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF40-8	8	95	40
EMF40-10	10	100	50
EMF40-12	12	110	65
EMF40-14	14	140	95
EMF40-17	17	160	105
EMF40-19	19	170	130
EMF40-22	22	195	170
EMF40-24	24	220	190
EMF40-27	27	240	285
EMF40-30	30	260	320
EMF40-32	32	275	400
EMF40-34	34	290	455
EMF40-36	36	310	530
EMF40-41	41	345	615
EMF40-46	46	375	950
EMF40-50	50	410	1080
EMF40-55	55	450	1380
EMF40-60	60	490	1950
EMF40-65	65	530	2250
EMF40-70	70	570	2850
EMF40-75	75	610	3200

**EMF40A Maulförmiger Hahnenfußschlüssel /
Crow Foot Open End**



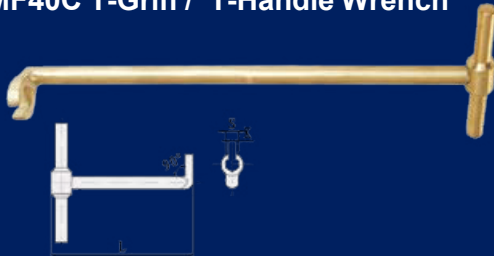
Artikel / Article	C (inch)	S (inch)	L (mm)	BeCo (g)
EMF40A-1002	3/8	9/16	35	55
EMF40A-1004	3/8	5/8	37	55
EMF40A-1006	3/8	11/16	38	55
EMF40A-1008	3/8	7/8	43	60
EMF40A-1010	3/8	1-1/8	50	83
EMF40A-1012	3/8	1-1/4	53	95
EMF40A-1014	3/8	1-3/8	56	103
EMF40A-1016	3/8	1-1/2	59	130
EMF40A-1018	3/8	1-7/8	72	180
EMF40A-1020	3/8	2	75	190
EMF40A-1022	3/8	2-1/4	81	200
EMF40A-1024	1/2	14	40	60
EMF40A-1026	1/2	16	43	62
EMF40A-1028	1/2	17	43	62
EMF40A-1030	1/2	19	49	105
EMF40A-1032	1/2	20	49	105
EMF40A-1034	1/2	22	52	120
EMF40A-1036	1/2	27	59	145

EMF40B Maulschlüssel mit Versatz und Pin / Wrench, Construction, Offset Type With Pin



Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF40B-17	17	320	210
EMF40B-19	19	350	320
EMF40B-22	22	350	430
EMF40B-24	24	370	480
EMF40B-27	27	370	640
EMF40B-30	30	400	800
EMF40B-32	32	400	800
EMF40B-36	36	430	950
EMF40B-41	41	470	1270
EMF40B-46	46	500	1600
EMF40B-50	50	530	1885
EMF40B-55	55	560	2160

EMF40C T-Griff / T-Handle Wrench



Artikel / Article	S (mm)	K (mm)	L (mm)	BeCo (g)
EMF40C-8	8	5	215	135
EMF40C-10	10	6	215	140
EMF40C-12	12	8	215	145
EMF40C-14	14	10	215	150

EMF40D Maulschlüssel / Wrench, Single Open End



Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF40D-22	22	180	220
EMF40D-24	24	196	235
EMF40D-27	27	225	330
EMF40D-30	30	255	450
EMF40D-32	32	275	602
EMF40D-36	36	300	901
EMF40D-41	41	325	1040
EMF40D-46	46	350	1180

EMF41 Schlagmaulschlüssel / Wrench, Striking Open



DIN133

Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF41-17	17	125	150
EMF41-19	19	125	150
EMF41-22	22	135	195
EMF41-24	24	150	245
EMF41-27	27	175	335
EMF41-30	30	190	435
EMF41-32	32	190	515
EMF41-36	36	200	725
EMF41-41	41	230	955
EMF41-46	46	250	1225
EMF41-50	50	275	1560
EMF41-55	55	305	1850
EMF41-60	60	315	2190
EMF41-65	65	335	3060
EMF41-70	70	370	4030
EMF41-75	75	375	4200
EMF41-80	80	400	5650
EMF41-85	85	400	6000
EMF41-90	90	445	7800
EMF41-95	95	445	7730
EMF41-100	100	485	11600
EMF41-110	110	513	13500

Artikel / Article	S (inch)	L (mm)	BeCo (g)
EMF41-1002	3/4	125	150
EMF41-1004	7/8	135	195
EMF41-1006	15/16	150	245
EMF41-1008	1	175	335
EMF41-1010	1-1/8	190	435
EMF41-1012	1-1/4	190	515
EMF41-1014	1-7/16	200	725
EMF41-1016	1-1/2	220	860
EMF41-1018	1-5/8	230	955
EMF41-1020	1-3/4	250	1225
EMF41-1022	1-7/8	250	1225
EMF41-1024	2	275	1550
EMF41-1028	2-1/8	305	1850
EMF41-1030	2-1/4	315	2190
EMF41-1032	2-3/8	315	2190
EMF41-1034	2-1/2	335	3060
EMF41-1036	2-3/4	370	4030
EMF41-1038	3	375	4200
EMF41-1040	3-1/8	400	5650
EMF41-1042	3-1/2	445	7800
EMF41-1044	3-3/4	445	7730
EMF41-1046	4	485	11600

**EMF41A Maulschlüssel /
Wrench, Striking Open**



Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF41A-17	17	130	133
EMF41A-19	19	140	172
EMF41A-22	22	155	252
EMF41A-24	24	165	305
EMF41A-27	27	175	385
EMF41A-30	30	185	515
EMF41A-32	32	195	585
EMF41A-36	36	210	851
EMF41A-41	41	225	1055
EMF41A-46	46	240	1245
EMF41A-50	50	255	1580
EMF41A-55	55	270	1865
EMF41A-60	60	285	2205
EMF41A-65	65	305	3060
EMF41A-70	70	325	3620
EMF41A-75	75	345	3905
EMF41A-80	80	365	4845
EMF41A-90	90	385	5370

**EMF41B Schlagmaulschlüssel, abgewinkelt /
Wrench, Bent Striking Open**



Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF41B-17	17	125	160
EMF41B-19	19	125	160
EMF41B-22	22	135	180
EMF41B-24	24	150	245
EMF41B-27	27	175	420
EMF41B-30	30	190	480
EMF41B-32	32	190	480
EMF41B-34	34	200	600
EMF41B-36	36	210	680
EMF41B-38	38	230	980
EMF41B-41	41	230	950
EMF41B-46	46	250	1270
EMF41B-50	50	275	1380
EMF41B-55	55	305	1780
EMF41B-60	60	315	2560
EMF41B-65	65	335	3000

**EMF42 Doppelmaulschlüsselsatz, 9-teilig /
Set-9pcs Wrench, Double Open End**



Artikel / Article	S1*S2 (mm)	BeCo (g)
EMF42	8*10, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 30*32	2810

EMF43 Set-11pcs Wrench, Double Open End

Artikel / Article	S1*S2 (mm)	BeCo (g)
EMF43	8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32	3530

EMF44 Set-13pcs Wrench, Double Open End

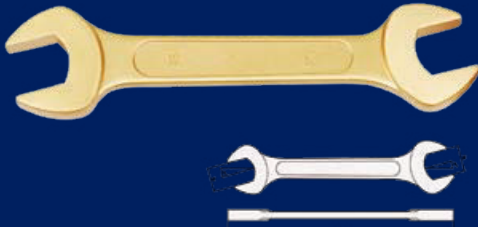
Artikel / Article	S1*S2 (mm)	BeCo (g)
EMF44	5.5*7, 6*7, 8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32	3610

**EMF45 Doppelmaulschlüssel /
Wrench, Double Open End**



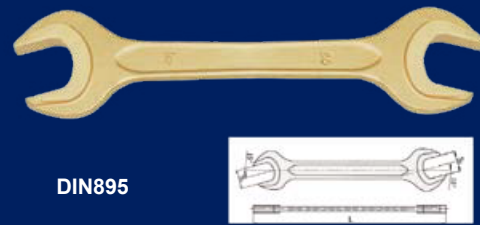
Artikel / Article	S1*S2 (mm)	L (mm)	BeCo (g)
EMF45-0607	6*7	92	40
EMF45-0709	7*9	96	45
EMF45-0810	8*10	100	60
EMF45-0911	9*11	110	75
EMF45-1012	10*12	120	95
EMF45-1214	12*14	130	145
EMF45-1417	14*17	150	180
EMF45-1719	17*19	170	235
EMF45-1922	19*22	185	330
EMF45-2224	22*24	210	445
EMF45-2427	24*27	230	535
EMF45-2730	27*30	250	650
EMF45-3032	30*32	265	775
EMF45-3036	30*36	270	925
EMF45-3234	32*34	275	1055
EMF45-3236	32*36	290	1155
EMF45-3436	34*36	305	1475
EMF45-3641	36*41	335	1610
EMF45-4146	41*46	355	1790
EMF45-4650	46*50	370	2220
EMF45-5055	50*55	385	2610
EMF45-5060	50*60	400	3085
EMF45-5560	55*60	415	3270
EMF45-6065	60*65	435	4540
EMF45-6570	65*70	460	6130

EMF46 Doppelmaulschlüssel / Wrench, Double Open End



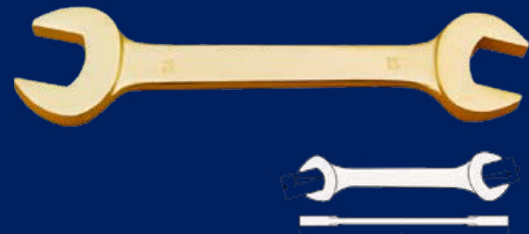
Artikel / Article	S1*S2 (mm)	L (mm)	BeCo (g)
EMF46-0507	5.5*7	90	23
EMF46-0607	6*7	92	25
EMF46-0709	7*9	96	28
EMF46-0810	8*10	100	34
EMF46-0911	9*11	110	50
EMF46-1011	10*11	115	52
EMF46-1012	10*12	120	60
EMF46-1014	10*14	124	68
EMF46-1213	12*13	128	73
EMF46-1214	12*14	130	75
EMF46-1317	13*17	140	110
EMF46-1415	14*15	143	115
EMF46-1417	14*17	150	120
EMF46-1617	16*17	157	130
EMF46-1618	16*18	163	145
EMF46-1719	17*19	170	150
EMF46-1721	17*21	173	185
EMF46-1819	18*19	179	200
EMF46-1921	19*21	182	210
EMF46-1922	19*22	185	220
EMF46-1924	19*24	190	235
EMF46-2022	20*22	195	250
EMF46-2123	21*23	200	270
EMF46-2126	21*26	205	275
EMF46-2224	22*24	210	312
EMF46-2227	22*27	215	320
EMF46-2326	23*26	220	330
EMF46-2427	24*27	230	345
EMF46-2430	24*30	233	365
EMF46-2528	25*28	236	365
EMF46-2632	26*32	243	465
EMF46-2730	27*30	250	485
EMF46-2732	27*32	255	600
EMF46-3032	30*32	265	610
EMF46-3036	30*36	270	815
EMF46-3234	32*34	270	815
EMF46-3236	32*36	300	885
EMF46-3436	34*36	300	885
EMF46-3638	36*38	330	1350
EMF46-3641	36*41	330	1350
EMF46-3840	38*40	330	1350
EMF46-4146	41*46	355	1590
EMF46-4650	46*50	370	2050
EMF46-5055	50*55	385	2160
EMF46-5060	50*60	400	2488
EMF46-5560	55*60	415	2700
EMF46-6065	60*65	435	3950

EMF46A Doppelmaulschlüssel / Wrench, Double Open End



Artikel / Article	S1*S2 (mm)	L (mm)	BeCo (g)
EMF46A-1002	14*17	160	110
EMF46A-1004	17*19	180	120
EMF46A-1006	19*22	200	160
EMF46A-1008	19*24	220	180
EMF46A-1010	22*24	230	240
EMF46A-1012	24*27	255	340
EMF46A-1014	27*30	280	420
EMF46A-1016	30*32	300	530
EMF46A-1018	32*36	320	635
EMF46A-1020	34*36	330	740
EMF46A-1022	36*41	350	900
EMF46A-1024	41*46	380	1060
EMF46A-1026	46*50	420	1310
EMF46A-1028	50*55	460	1900
EMF46A-1030	55*60	500	2800

EMF47 Doppelmaulschlüssel / Wrench, Double Open End



Artikel / Article	S1*S2 (mm)	L (mm)	BeCo (g)
EMF47-1002	1/4*5/16	90	34
EMF47-1004	5/16*3/8	100	45
EMF47-1006	3/8*7/16	110	60
EMF47-1008	3/8*1/2	115	68
EMF47-1010	7/16*1/2	120	85
EMF47-1012	1/2*9/16	130	90
EMF47-1014	9/16*5/8	150	120
EMF47-1016	5/8*11/16	160	155
EMF47-1018	5/8*3/4	165	160
EMF47-1020	11/16*3/4	170	170
EMF47-1022	3/4*13/16	180	225
EMF47-1024	3/4*7/8	185	230
EMF47-1026	13/16*7/8	190	240
EMF47-1028	7/8*15/16	210	305
EMF47-1030	15/16*1	220	365
EMF47-1032	1*1-1/16	230	405
EMF47-1034	1-1/16*1-1/8	235	450
EMF47-1036	1-1/8*1-3/16	245	548
EMF47-1038	1-3/16*1-1/4	250	600

EMF48 Doppelringschlüssel, gekröpft 9-tlg. / Wrench, Double Box Offset Set-9pcs



Artikel / Article	S1*S2	BeCo (g)
EMF48	8*10,10*12,12*14,14*17,17*19,19*22,22*24,24*27,30*32 mm	2815

EMF49 Set-11pcs Doppelringschlüssel, versetzt / Wrench, Double Box Offset

Artikel / Article	S1*S2	BeCo (g)
EMF49	8*10,9*11,10*12,12*14,14*17,17*19,19*22,22*24,24*27,27*30,30*32 mm	3585

EMF50 Set-13pcs Doppelringschlüssel, versetzt / Wrench, Double Box Offset

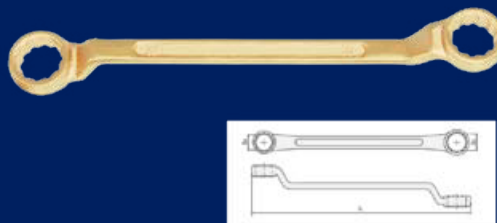
Artikel / Article	S1*S2 (mm)	BeCo (g)
EMF50	5,5*7,6*7,8*10,9*11,10*12,12*14,14*17,17*19,19*22,22*24,24*27,27*30,30*32 mm	3630

EMF51A Doppelringschlüssel, gekröpft / Wrench, Double Box Offset



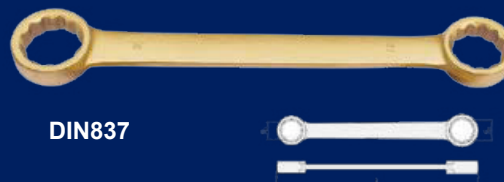
Artikel / Article	S1*S2 (mm)	L (mm)	BeCo (g)
EMF51A-1719	17*19	280	180
EMF51A-1922	19*22	300	210
EMF51A-1924	19*24	320	320
EMF51A-2123	21*23	320	370
EMF51A-2224	22*24	330	420
EMF51A-2427	24*27	340	480
EMF51A-2730	27*30	350	530
EMF51A-3032	30*32	370	690
EMF51A-3236	32*36	430	1000
EMF51A-3641	36*41	470	1270
EMF51A-4146	41*46	500	1580
EMF51A-4650	46*50	525	1900
EMF51A-5055	50*55	550	2850

EMF51 Doppelringschlüssel, gekröpft / Wrench, Double Box Offset



Artikel / Article	S1*S2 (mm)	L (mm)	BeCo (g)
EMF51-0507	5,5*7	115	22
EMF51-0607	6*7	115	25
EMF51-0709	7*9	130	50
EMF51-0810	8*10	130	55
EMF51-0911	9*11	140	70
EMF51-1011	10*11	140	80
EMF51-1012	10*12	140	85
EMF51-1213	12*13	160	120
EMF51-1214	12*14	160	151
EMF51-1417	14*17	220	205
EMF51-1618	16*18	220	220
EMF51-1719	17*19	250	225
EMF51-1722	17*22	250	290
EMF51-1819	18*19	250	295
EMF51-1922	19*22	280	310
EMF51-1924	19*24	310	355
EMF51-2123	21*23	285	405
EMF51-2126	21*26	320	450
EMF51-2224	22*24	310	455
EMF51-2427	24*27	340	520
EMF51-2430	24*30	350	550
EMF51-2528	25*28	350	580
EMF51-2632	26*32	370	640
EMF51-2730	27*30	360	705
EMF51-3032	30*32	380	805
EMF51-3036	30*36	395	1050
EMF51-3234	32*34	400	1080
EMF51-3236	32*36	405	1145
EMF51-3436	34*36	420	1165
EMF51-3641	36*41	445	1600
EMF51-4146	41*46	470	2077
EMF51-4650	46*50	490	2530
EMF51-5055	50*55	510	2580
EMF51-5060	50*60	520	3002
EMF51-5560	55*60	530	3203
EMF51-6070	60*70	560	4105

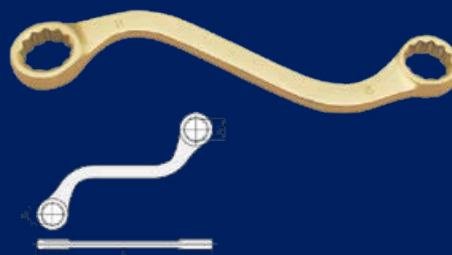
EMF53A Doppelringschlüssel, flach / Wrench, Double Flat Box



Artikel / Article	S1*S2 (mm)	L (mm)	BeCo (g)
EMF53A-0810	8*10	115	32
EMF53A-0911	9*11	125	37
EMF53A-1012	10*12	140	55
EMF53A-1214	12*14	145	70
EMF53A-1417	14*17	165	100
EMF53A-1719	17*19	185	132
EMF53A-1922	19*22	200	180
EMF53A-2224	22*24	220	240
EMF53A-2427	24*27	255	320
EMF53A-2730	27*30	280	385
EMF53A-3032	30*32	295	465
EMF53A-3036	30*36	330	600
EMF53A-3641	36*41	365	935

**EMF52 Doppelringschlüssel, gekröpft /
Wrench, Double Box Offset**


Artikel / Article	S1*S2 (mm)	L (mm)	Beryllium Copper (g)
EMF52-0507	5.5*7	120	40
EMF52-0607	6*7	122	45
EMF52-0709	7*9	126	50
EMF52-0810	8*10	130	55
EMF52-0910	9*10	135	60
EMF52-0911	9*11	140	70
EMF52-1012	10*12	160	85
EMF52-1013	10*13	164	90
EMF52-1014	10*14	168	110
EMF52-1113	11*13	172	110
EMF52-1213	12*13	176	120
EMF52-1214	12*14	180	125
EMF52-1417	14*17	220	190
EMF52-1618	16*18	240	230
EMF52-1719	17*19	250	240
EMF52-1819	18*19	268	295
EMF52-1922	19*22	280	322
EMF52-2022	20*22	292	365
EMF52-2123	21*23	298	393
EMF52-2224	22*24	310	450
EMF52-2326	23*26	325	465
EMF52-2427	24*27	340	520
EMF52-2528	25*28	346	580
EMF52-2730	27*30	360	705
EMF52-3032	30*32	380	805
EMF52-3234	32*34	398	890
EMF52-3436	34*36	418	1070
EMF52-3638	36*38	434	1200
EMF52-3641	36*41	450	1560
EMF52-4146	41*46	470	1840
EMF52-4650	46*50	490	2530
EMF52-5055	50*55	510	2580

**EMF52A Doppelringschlüssel, abgewinkelt /
Wrench, Double Box Offset**


Artikel / Article	S1*S2 (mm)	L (mm)	BeCog
EMF52A-0607	6*7	90	45
EMF52A-0709	7*9	90	55
EMF52A-0810	8*10	100	80
EMF52A-0911	9*11	100	90
EMF52A-1012	10*12	110	125
EMF52A-1214	12*14	125	160
EMF52A-1417	14*17	140	230
EMF52A-1719	17*19	170	310
EMF52A-1922	19*22	185	420
EMF52A-1924	19*24	185	450
EMF52A-2123	21*23	185	490
EMF52A-2126	21*26	185	500
EMF52A-2224	22*24	210	670
EMF52A-2326	23*26	210	670
EMF52A-2427	24*27	225	720
EMF52A-2430	24*30	225	740
EMF52A-2528	25*28	225	750
EMF52A-2730	27*30	250	870
EMF52A-3032	30*32	275	1100

**EMF53 Doppelringschlüssel, gekröpft /
Wrench, Double Box Offset**

**EMF53B Doppelringschlüssel mit Nut /
Flare Nut Open Ring Wrenches**
DIN3118


Artikel / Article	S1*S2 (mm)	L (mm)	BeCo (g)
EMF53B-0607	6*7	95	17
EMF53B-0810	8*10	115	32
EMF53B-0911	9*11	125	37
EMF53B-1012	10*12	140	55
EMF53B-1214	12*14	145	70
EMF53B-1415	14*15	155	90
EMF53B-1417	14*17	165	100
EMF53B-1618	16*18	170	127
EMF53B-1719	17*19	185	132
EMF53B-1922	19*22	200	180
EMF53B-2224	22*24	220	240
EMF53B-2427	24*27	255	320
EMF53B-2430	24*30	270	375
EMF53B-2528	25*28	265	380
EMF53B-2730	27*30	280	430
EMF53B-3032	30*32	295	498
EMF53B-3034	30*34	310	588
EMF53B-3036	30*36	330	657
EMF53B-3436	34*36	345	758
EMF53B-3641	36*41	365	935

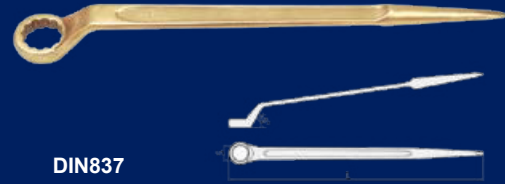
Artikel / Article	S1*S2 (inch)	L (mm)	Be-Cu (g)
EMF53-1002	1/4*5/16	115	30
EMF53-1004	5/16*3/8	125	45
EMF53-1006	3/8*7/16	140	60
EMF53-1008	7/16*1/2	155	90
EMF53-1010	1/2*9/16	175	115
EMF53-1012	9/16*5/8	215	190
EMF53-1014	5/8*11/16	220	205
EMF53-1016	11/16*3/4	245	235
EMF53-1018	3/4*13/16	255	295
EMF53-1020	13/16*7/8	275	350
EMF53-1022	7/8*15/16	305	405
EMF53-1024	15/16*1	310	490
EMF53-1026	1*1-1/16	330	535
EMF53-1028	1-1/16*1-1/8	330	570
EMF53-1030	1-1/8*1-3/16	370	830
EMF53-1032	1-3/16*1-1/4	370	835
EMF53-1034	1-1/4*1-5/16	380	1020
EMF53-1036	1-5/16*1-3/8	410	1050
EMF53-1038	1-3/8*1-7/16	410	1425
EMF53-1040	1-7/16*1-5/8	450	1585
EMF53-1042	1-1/2*1-9/16	460	1803
EMF53-1044	1-5/8*1-13/16	470	2077
EMF53-1046	1-13/16*2	490	2530
EMF53-1048	2*2-3/16	510	2580
EMF53-1050	2*2-3/8	520	3002
EMF53-1052	2-3/16*2-3/8	530	3203
EMF53-1054	2-3/8*2-3/4	560	4105

EMF56 Ringschlüssel / Wrench, Single Box



Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF56-8	8	110	40
EMF56-10	10	120	50
EMF56-12	12	130	65
EMF56-14	14	140	90
EMF56-17	17	155	105
EMF56-19	19	170	130
EMF56-22	22	190	175
EMF56-24	24	215	220
EMF56-27	27	230	270
EMF56-30	30	255	370
EMF56-32	32	265	425
EMF56-36	36	295	550
EMF56-41	41	330	825
EMF56-46	46	365	1120
EMF56-50	50	400	1270
EMF56-55	55	445	1590
EMF56-60	60	474	1850
EMF56-65	65	510	2060
EMF56-70	70	555	2530
EMF56-75	75	590	2700

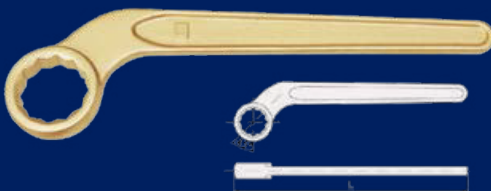
EMF54 Ringschlüssel mit Pin / Wrench, Construction



DIN837

Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF54-10	10	230	90
EMF54-12	12	250	110
EMF54-14	14	270	145
EMF54-17	17	310	200
EMF54-19	19	330	250
EMF54-22	22	350	320
EMF54-24	24	370	400
EMF54-27	27	400	500
EMF54-30	30	430	700
EMF54-32	32	430	660
EMF54-36	36	460	900
EMF54-41	41	490	1090
EMF54-46	46	520	1560
EMF54-50	50	540	1700
EMF54-55	55	560	2050
EMF54-60	60	610	2820

EMF57 Ringschlüssel, gebogen / Wrench, Single Bent Box

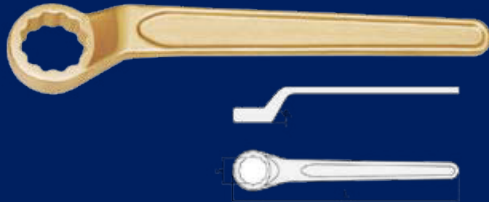


Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF57-10	10	119	60
EMF57-12	12	151	85
EMF57-14	14	151	85
EMF57-16	16	174	150
EMF57-17	17	174	160
EMF57-19	19	207	195
EMF57-22	22	207	205
EMF57-24	24	250	330
EMF57-27	27	250	315
EMF57-30	30	295	480
EMF57-32	32	295	455
EMF57-34	34	307	650
EMF57-36	36	307	650
EMF57-38	38	340	830
EMF57-41	41	340	810
EMF57-46	46	370	1230
EMF57-50	50	400	1400
EMF57-55	55	430	1930
EMF57-60	60	450	2100
EMF57-65	65	470	2360
EMF57-70	70	490	3080
EMF57-75	75	510	3600
EMF57-80	80	530	4460

EMF55 Ringschlüssel mit Pin / Wrench, Construction



Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF55-8	8	140	60
EMF55-10	10	150	70
EMF55-11	11	160	80
EMF55-12	12	170	90
EMF55-13	13	180	102
EMF55-14	14	190	115
EMF55-15	15	200	125
EMF55-16	16	210	130
EMF55-17	17	220	165
EMF55-18	18	230	180
EMF55-19	19	240	230
EMF55-20	20	250	242
EMF55-21	21	260	251
EMF55-22	22	270	303
EMF55-23	23	280	330
EMF55-24	24	290	361
EMF55-27	27	320	472
EMF55-30	30	350	650
EMF55-32	32	370	680
EMF55-34	34	380	803
EMF55-36	36	390	950
EMF55-38	38	400	1005
EMF55-41	41	410	1430
EMF55-46	46	420	1460
EMF55-50	50	430	1580
EMF55-55	55	440	1870
EMF55-60	60	460	2330
EMF55-65	65	480	2802
EMF55-70	70	500	3150

**EMF59A Ringschlüssel, gekröpft /
Wrench, Single Box Offset**


Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF59A-22	22	190	185
EMF59A-24	24	215	235
EMF59A-27	27	230	310
EMF59A-30	30	255	430
EMF59A-32	32	265	450
EMF59A-36	36	295	610
EMF59A-41	41	330	855
EMF59A-46	46	365	1000
EMF59A-50	50	400	1350
EMF59A-55	55	445	2000
EMF59A-60	60	474	2260
EMF59A-65	65	510	2800
EMF59A-70	70	555	3250
EMF59A-75	75	590	3450

**EMF65 Ventilschlüssel /
Valve Square Driver**


Artikel / Article	C (mm)	L (mm)	H (mm)	BeCo (g)
EMF65-6	6	110	9	65
EMF65-8	8	120	10	75
EMF65-9	9	140	11	90
EMF65-10	10	140	12	105
EMF65-11	11	160	13	130
EMF65-12	12	190	14	180
EMF65-13	13	200	15	185
EMF65-14	14	250	16	300
EMF65-16	16	250	18	335
EMF65-17	17	300	19	420
EMF65-19	19	350	20	740
EMF65-22	22	400	22	1000

**EMF59 Ringschlüssel, gekröpft /
Wrench, Single Box Offset**

DIN3111

Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF59-10	10	110	75
EMF59-12	12	120	115
EMF59-14	14	130	135
EMF59-17	17	150	145
EMF59-19	19	170	185
EMF59-22	22	190	240
EMF59-24	24	210	320
EMF59-27	27	230	401
EMF59-30	30	250	520
EMF59-32	32	270	650
EMF59-34	34	280	780
EMF59-36	36	290	802

**EMF60 Schlagringschlüssel /
Wrench, Striking Box**
DIN7444

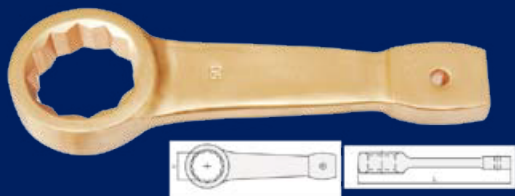

Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF60-17	17	145	210
EMF60-19	19	145	200
EMF60-22	22	155	245
EMF60-24	24	165	235
EMF60-27	27	175	350
EMF60-30	30	185	475
EMF60-32	32	185	465
EMF60-34	34	200	540
EMF60-36	36	205	580
EMF60-38	38	215	680
EMF60-41	41	225	755
EMF60-46	46	235	990
EMF60-50	50	250	1145
EMF60-55	55	265	1440
EMF60-60	60	274	1620
EMF60-65	65	298	1995
EMF60-70	70	320	2435
EMF60-75	75	326	3010
EMF60-80	80	350	3600
EMF60-85	85	355	4330
EMF60-90	90	380	5200
EMF60-95	95	390	5450
EMF60-100	100	410	6750
EMF60-105	105	420	7000
EMF60-110	110	445	9130
EMF60-120	120	480	11000
EMF60-130	130	510	12610
EMF60-140	140	520	13000
EMF60-150	150	565	14500

**EMF61 Schlagringschlüssel /
Wrench, Striking Box**

DIN7444

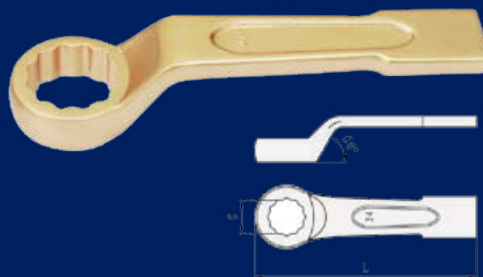
Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF61-1002	11/16	145	210
EMF61-1004	3/4	145	200
EMF61-1006	7/8	155	245
EMF61-1008	1	175	350
EMF61-1010	1-1/16	175	350
EMF61-1012	1-1/8	185	455
EMF61-1014	1-3/16	185	475
EMF61-1016	1-1/4	185	470
EMF61-1018	1-3/8	200	560
EMF61-1020	1-1/2	215	790
EMF61-1022	1-5/8	225	755
EMF61-1024	1-3/4	235	1020
EMF61-1026	1-13/16	235	990
EMF61-1028	2	250	1145

**EMF60A Schlagringschlüssel /
Wrench, Striking Box**



Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF60A-17	17	108	105
EMF60A-19	19	117	135
EMF60A-22	22	127	192
EMF60A-24	24	138	270
EMF60A-27	27	150	350
EMF60A-30	30	163	460
EMF60A-32	32	177	610
EMF60A-34	34	192	690
EMF60A-36	36	208	780
EMF60A-38	38	215	875
EMF60A-41	41	225	985
EMF60A-46	46	243	1275
EMF60A-50	50	254	1545
EMF60A-55	55	264	1720
EMF60A-60	60	275	2080
EMF60A-65	65	286	2440
EMF60A-70	70	298	2735
EMF60A-75	75	311	3190
EMF60A-80	80	325	3485
EMF60A-85	85	339	3990
EMF60A-90	90	355	4350
EMF60A-95	95	370	5046
EMF60A-100	100	387	5630
EMF60A-105	105	405	6250
EMF60A-110	110	410	6750
EMF60A-120	120	425	7405
EMF60A-130	130	450	7905
EMF60A-140	140	465	8105

**EMF62B Schlagringschlüssel, versetzt /
Wrench, Offset Striking Box**



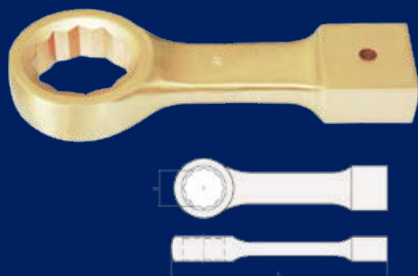
Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF62B-24	24	160	370
EMF62B-27	27	180	475
EMF62B-30	30	200	615
EMF62B-32	32	200	615
EMF62B-36	36	220	825
EMF62B-41	41	240	950
EMF62B-46	46	250	1330
EMF62B-50	50	270	1650
EMF62B-55	55	295	2000
EMF62B-60	60	317	2430
EMF62B-65	65	330	2750
EMF62B-70	70	350	3385
EMF62B-75	75	370	4655
EMF62B-80	80	385	5020

**EMF63 Schlagringschlüssel /
Wrench, Striking Convex Box**



Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF63-22	22	165	230
EMF63-24	24	165	220
EMF63-27	27	175	370
EMF63-30	30	185	530
EMF63-32	32	185	475
EMF63-36	36	210	740
EMF63-41	41	227	950
EMF63-46	46	245	1270
EMF63-50	50	257	1590
EMF63-55	55	267	1800
EMF63-60	60	278	2115
EMF63-65	65	298	2580
EMF63-70	70	320	2960
EMF63-75	75	326	3350

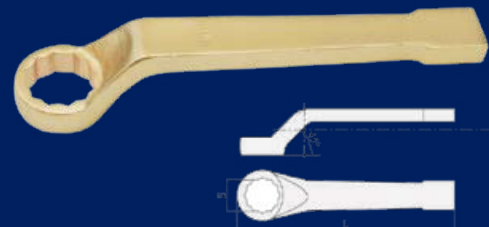
**EMF62 Schlagringschlüssel /
Wrench, Striking Box**



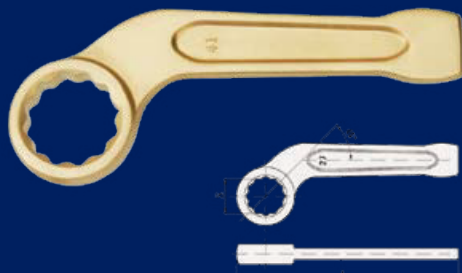
Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF62-32	32	180	790
EMF62-36	36	190	990
EMF62-41	41	200	1450
EMF62-46	46	210	1770
EMF62-50	50	230	1930
EMF62-55	55	260	3400
EMF62-60	60	290	4200
EMF62-65	65	320	5430
EMF62-70	70	350	6480
EMF62-75	75	380	7890
EMF62-80	80	410	10350

**EMF63A Schlagringschlüssel, gekröpft /
 Offset Slogging Box Wrench (American Type)**

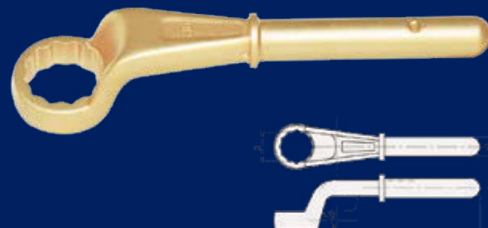

Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF63A-24	24	240	950
EMF63A-27	27	270	1150
EMF63A-30	30	280	1480
EMF63A-32	32	290	1690
EMF63A-36	36	300	1900
EMF63A-41	41	320	2110
EMF63A-46	46	340	2750
EMF63A-50	50	350	3170
EMF63A-55	55	360	4125
EMF63A-60	60	375	4335
EMF63A-65	65	390	4440
EMF63A-70	70	400	5400
EMF63A-75	75	420	5810
EMF63A-80	80	440	7295
EMF63A-90	90	480	9740
EMF63A-100	100	515	11300
EMF63A-110	110	550	13400
EMF63A-120	120	585	15500
EMF63A-130	130	620	17700

**EMF62A Schlagringschlüssel, gekröpft /
 Wrench, Offset Striking Box**


Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF62A-27	27	245	670
EMF62A-30	30	270	970
EMF62A-32	32	270	970
EMF62A-36	36	280	1060
EMF62A-41	41	305	1430
EMF62A-46	46	310	1830
EMF62A-50	50	320	2100
EMF62A-55	55	320	2350
EMF62A-60	60	355	2900
EMF62A-65	65	380	3470
EMF62A-70	70	400	4050
EMF62A-75	75	420	4350
EMF62A-80	80	435	5500
EMF62A-85	85	440	6500
EMF62A-90	90	445	6820
EMF62A-95	95	450	7880
EMF62A-100	100	455	7900
EMF62A-110	110	460	8400
EMF62A-120	120	470	8900

**EMF64 Schlagringschlüssel, gebogen /
 Wrench, Striking Box Bent**


Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF64-24	24	160	280
EMF64-27	27	175	370
EMF64-30	30	190	525
EMF64-32	32	190	500
EMF64-36	36	210	630
EMF64-41	41	225	750
EMF64-46	46	240	1160
EMF64-50	50	255	1240
EMF64-55	55	270	1450
EMF64-60	60	285	1820
EMF64-65	65	300	2645
EMF64-70	70	320	2960

**EMF64A Ringschlüssel für Verlängerung /
 Ring Wrench For Extension**


Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF64A-24	24	180	475
EMF64A-27	27	190	530
EMF64A-30	30	200	580
EMF64A-32	32	235	795
EMF64A-36	36	245	900
EMF64A-41	41	265	1060
EMF64A-46	46	280	1480
EMF64A-50	50	290	1690
EMF64A-55	55	300	1850
EMF64A-60	60	345	2960
EMF64A-65	65	355	3380
EMF64A-70	70	365	3910
EMF64A-75	75	375	4335
EMF64A-80	80	385	5180

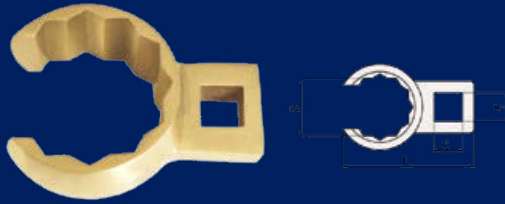
Verlängerung für / Extension For EMF64A


Artikel / Article	Φ (mm)	L (mm)	BeCo (g)
EMH4-30	19	460	940
EMH2-41	22	610	1640
EMH6-55	25	760	2480
EMH60-80	30	860	3890

Verlängerung für / Extension For EMF64A

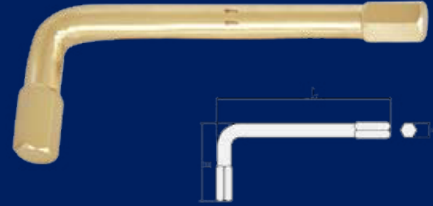

Artikel / Article	Φ (mm)	L (mm)	BeCo (g)
EMH4-30	19	460	880
EMH2-41	22	610	1280
EMH6-55	25	760	2125
EMH0-80	30	860	3265

**EMF64B Krähenfuß-Ringschlüsselkopf /
Crow Foot Box End**



Artikel / Article	C (inch)	S (inch)	L (mm)	BeCo (g)
EMF64B-1002	3/8	7/16	29	35
EMF64B-1004	3/8	1/2	31	40
EMF64B-1006	3/8	9/16	33	45
EMF64B-1008	3/8	5/8	38	50
EMF64B-1010	3/8	11/16	41	55
EMF64B-1012	3/8	3/4	43	55
EMF64B-1014	1/2	7/8	48	80
EMF64B-1016	1/2	1	52	85
EMF64B-1018	1/2	1-1/16	54	90
EMF64B-1020	1/2	1-1/8	56	100
EMF64B-1022	1/2	1-1/4	62	145
EMF64B-1024	1/2	1-5/16	66	170
EMF64B-1026	1/2	1-1/2	72	190
EMF64B-1028	1/2	1-5/8	76	210
EMF64B-1030	1/2	2	89	230

**EMF66 Innensechskantschlüssel /
Wrench, Hex Key**



Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF66-1.5	1.5	38	13	6
EMF66-2	2	38	13	6
EMF66-2.5	2.5	38	13	6
EMF66-3	3	59	25	8
EMF66-4	4	65	30	10
EMF66-5	5	79	32	16
EMF66-6	6	85	37	25
EMF66-7	7	88	43	34
EMF66-8	8	92	44	50
EMF66-9	9	97	44	61
EMF66-10	10	110	45	82
EMF66-11	11	119	48	100
EMF66-12	12	130	52	145
EMF66-13	13	140	54	180
EMF66-14	14	150	58	211
EMF66-15	15	156	60	260
EMF66-16	16	162	63	300
EMF66-17	17	168	65	370
EMF66-18	18	173	69	450
EMF66-19	19	177	72	490
EMF66-21	21	184	74	652
EMF66-22	22	186	77	675
EMF66-24	24	192	82	825
EMF66-25	25	200	84	925
EMF66-26	26	206	90	1025
EMF66-27	27	213	93	1220
EMF66-28	28	222	95	1350
EMF66-30	30	240	105	1615
EMF66-32	32	266	116	2065
EMF66-36	36	294	128	2905
EMF66-41	41	320	140	4120

**EMF67A Innensechskantschlüssel mit
Kugelkopf / Wrench, hex key with ball**

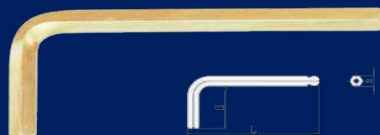


Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF67A-2	2	50	16	3
EMF67A-3	3	63	20	5
EMF67A-4	4	70	25	12
EMF67A-5	5	80	28	22
EMF67A-6	6	90	32	30
EMF67A-7	7	95	34	50
EMF67A-8	8	100	36	56
EMF67A-9	9	106	38	85
EMF67A-10	10	112	40	100
EMF67A-11	11	118	42	140
EMF67A-12	12	125	45	175

**EMF67 Innensechskantschlüssel /
Wrench, Hex Key**

Artikel / Article	S (inch)	L (mm)	H (mm)	BeCo (g)
EMF67-1002	1/16	38	13	6
EMF67-1004	5/64	38	13	6
EMF67-1006	3/32	38	13	6
EMF67-1008	7/64	58	24	8
EMF67-1010	1/8	58	24	8
EMF67-1012	9/64	64	29	8
EMF67-1014	5/32	65	30	10
EMF67-1016	3/16	79	31	15
EMF67-1018	7/32	85	37	20
EMF67-1020	1/4	85	37	30
EMF67-1022	9/32	88	43	45
EMF67-1024	5/16	92	44	48
EMF67-1026	11/32	97	44	50
EMF67-1028	3/8	110	45	85
EMF67-1030	7/16	119	48	110
EMF67-1032	1/2	140	55	170
EMF67-1034	9/16	150	58	195
EMF67-1036	5/8	162	63	270
EMF67-1038	11/16	168	65	355
EMF67-1040	3/4	178	73	450
EMF67-1042	13/16	184	77	565
EMF67-1044	7/8	187	79	650
EMF67-1046	15/16	192	82	825
EMF67-1048	1	200	85	925
EMF67-1050	1-1/16	213	93	1220

**EMF67B Innensechskantschlüssel /
Wrench, Hex Key**



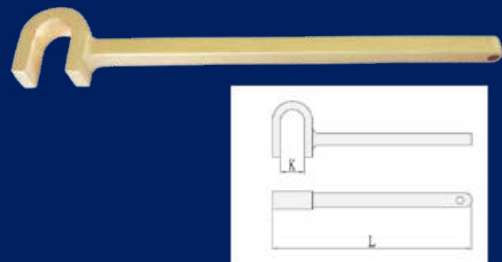
Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF67B-2	2	50	16	3
EMF67B-3	3	63	20	5
EMF67B-4	4	70	25	12
EMF67B-5	5	80	28	22
EMF67B-6	6	90	32	30
EMF67B-7	7	95	34	50
EMF67B-8	8	100	36	56
EMF67B-9	9	106	38	85
EMF67B-10	10	112	40	100
EMF67B-11	11	118	42	140
EMF67B-12	12	125	45	162

**EMF67C Innensechskantschlüssel mit T-Griff /
 Wrench, T Type Hex Key**

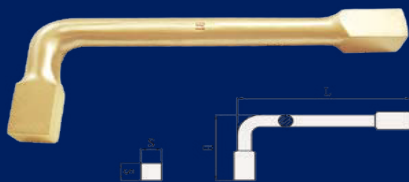

Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF67C-2	2	90	100	55
EMF67C-3	3	90	100	55
EMF67C-4	4	90	100	75
EMF67C-5	5	90	100	85
EMF67C-6	6	90	100	100
EMF67C-8	8	90	100	100
EMF67C-10	10	90	100	150

**EMF70 Ventil-Schlüssel, C-Form /
 Valve Wrench, C Type**

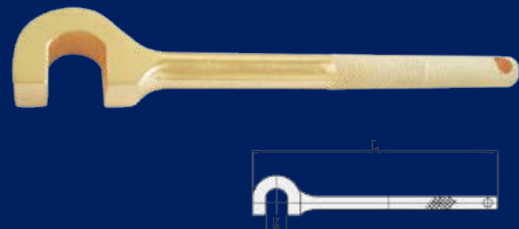

Artikel / Article	L (mm)	Φ (mm)	H (mm)	BeCo (g)
EMF70-1002	600	32	32	4500

**EMF70A Ventil-Spanner, U-Form /
 Valve Spanner (U Type)**


Artikel / Article	L (mm)	Kmax (mm)	BeCo (g)
EMF70A-1002	234	20	260
EMF70A-1004	280	30	820
EMF70A-1006	335	35	980
EMF70A-1008	400	35	1640

**EMF67D Vierkantschlüssel /
 Wrench, Square Key**


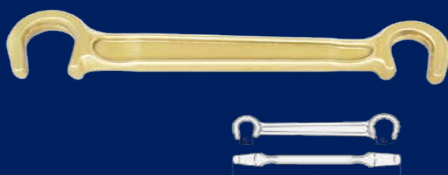
Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF67D-8	8	92	44	55
EMF67D-9	9	97	44	65
EMF67D-10	10	110	45	90
EMF67D-11	11	119	48	110
EMF67D-12	12	130	52	155
EMF67D-13	13	140	54	185
EMF67D-14	14	150	58	220
MF67D-15	15	156	60	280
EMF67D-16	16	162	63	320
EMF67D-17	17	168	65	395
EMF67D-18	18	173	69	465
EMF67D-19	19	177	72	520

**EMF70B Ventil-Spanner, U-Form /
 Valve Spanner (U Type)**


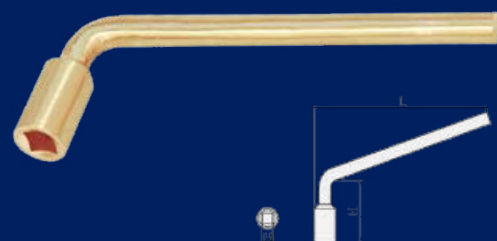
Artikel / Article	L (mm)	Kmax (mm)	BeCo (g)
EMF70B-1002	226	20	370

**EMF68 Ventil-Schlüssel, C-Form /
 Valve Wrench, C Type**


Artikel / Article	L (mm)	S (mm)	BeCo (g)
EMF68-1002	450	40	1205

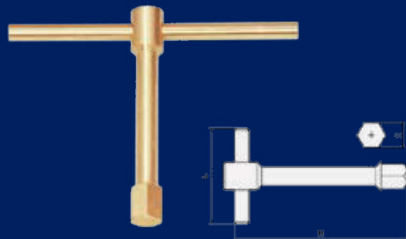
**EMF69 Ventil-Schlüssel, C-Form /
 Valve Wrench, C Type**


Artikel / Article	L (mm)	S1 (mm)	S2 (mm)	BeCo (g)
EMF69-1002	200	14.5	18.5	370
EMF69-1004	250	17.5	25.5	635
EMF69-1006	450	25.5	34	2385

**EMF71 Gasflaschen-Schlüssel /
 Oxygen Bottle Wrench**


Artikel / Article	C (inch)	L (mm)	H (mm)	BeCo (g)
EMF71-1002	3/8	154	58	185

**EMF72 6-kant Schlüssel, T-Form, verstellbar /
Wrench, T-type Sliding Hex**



Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF72-10	10	150	110	270
EMF72-12	12	170	130	290
EMF72-14	14	170	140	400
EMF72-17	17	190	150	465
EMF72-19	19	220	160	615
EMF72-22	22	240	170	660
EMF72-24	24	260	180	935
EMF72-27	27	260	190	1000
EMF72-30	30	280	200	1306
EMF72-32	32	280	210	1505
EMF72-36	36	300	216	1802
EMF72-41	41	300	226	2075

EMF73 Hakenschlüssel / Wrench, Hook



Artikel / Article	D (mm)	L (mm)	BeCo (g)
EMF73-1002	30-32	140	63
EMF73-1004	34-36	170	95
EMF73-1006	40-42	176	105
EMF73-1008	45-50	209	160
EMF73-1010	52-55	212	170
EMF73-1012	58-62	144	225
EMF73-1014	68-75	250	265
EMF73-1016	80-90	284	375
EMF73-1018	95-100	288	415
EMF73-1020	110-115	337	770
EMF73-1022	120-130	343	770
EMF73-1024	135-145	388	1110

EMF74 Ventilgriff / Valve Handle



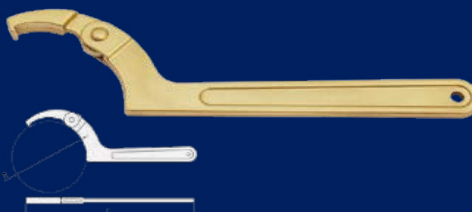
Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF74-30	30	200	44	405
EMF74-35	35	250	49	465
EMF74-40	40	300	50	595
EMF74-45	45	350	61	835
EMF74-48	48	375	62	865
EMF74-50	50	400	67	892
EMF74-55	55	450	73	1270
EMF74-60	60	500	79	1570
EMF74-65	65	550	80	1920
EMF74-70	70	600	80	1945
EMF74-75	75	650	85	2245
EMF74-80	80	700	91	2405
EMF74-85	85	750	97	3050
EMF74-90	90	800	103	3360
EMF74-93	93	850	107	3553
EMF74-96	96	900	110	3870
EMF74-100	100	1000	114	4170
EMF74-103	103	1200	120	6330

EMF73A Haken-Schlüssel / Wrench, Hook



Artikel / Article	D (mm)	L (mm)	BeCo (g)
EMF73A-1002	118	280	350

**EMF73B Haken-Schlüssel /
Wrench, Adjustable Hook**



Artikel / Article	D (mm)	L (mm)	BeCo (g)
EMF73B-1002	19-50	162	120
EMF73B-1004	32-75	205	260
EMF73B-1006	50-120	288	515
EMF73B-1008	115-170	310	670

**EMF73C Hakenschlüssel mit Zapfen /
Hook Wrench With Pin**



Artikel / Article	D (mm)	L (mm)	BeCo (g)
EMF73C-1002	30-32	140	63
EMF73C-1004	34-36	170	95
EMF73C-1006	40-42	176	105
EMF73C-1008	45-50	209	160
EMF73C-1010	52-55	212	170
EMF73C-1012	58-62	244	225
EMF73C-1014	68-75	250	265
EMF73C-1016	80-90	284	375
EMF73C-1018	95-100	288	415
EMF73C-1020	110-115	337	770

EMF74A Ventilgriff / Valve Handle



Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF74A-30	30	200	46	265
EMF74A-35	35	250	52	375
EMF74A-40	40	300	54	450
EMF74A-45	45	350	60	585
EMF74A-50	50	400	68	740
EMF74A-55	55	450	74	830
EMF74A-60	60	500	80	1200
EMF74A-65	65	550	83	1280
EMF74A-70	70	600	88	1380
EMF74A-75	75	650	93.5	1650
EMF74A-80	80	700	99.5	1870
EMF74A-85	85	750	100	2090
EMF74A-90	90	800	107	2310
EMF74A-95	95	900	112	2980
EMF74A-100	100	1000	117	3330

EMF74B Ventilgriff / Valve Handle



Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF74B-30	30	200	46	265
EMF74B-35	35	250	52	375
EMF74B-40	40	300	54	450
EMF74B-45	45	350	60	585
EMF74B-50	50	400	68	740
EMF74B-55	55	450	74	830
EMF74B-60	60	500	80	1200
EMF74B-65	65	550	83	1280
EMF74B-70	70	600	88	1380
EMF74B-75	75	650	93.5	1650
EMF74B-80	80	700	99.5	1870
EMF74B-85	85	750	100	2090
EMF74B-90	90	800	107	2310
EMF74B-95	95	900	112	2980
EMF74B-100	100	1000	117	3330

EMF76 Ventilgriff / Valve Handle



Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF76-30	30	200	44	280
EMF76-32	32	300	50	540
EMF76-35	35	250	47	364
EMF76-40	40	300	50	470
EMF76-45	45	350	58	610
EMF76-48	48	375	62	660
EMF76-50	50	400	67	705
EMF76-55	55	450	73	960
EMF76-60	60	500	79	1205
EMF76-65	65	550	82	1370
EMF76-70	70	600	85	1540
EMF76-75	75	650	88	1705
EMF76-80	80	700	91	1910
EMF76-85	85	750	97	2250
EMF76-90	90	800	103	2380

EMF75 Ventilgriff / Valve Handle



Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF75-22	22	200	50	390
EMF75-28	28	250	53	550
EMF75-34	34	300	56	722
EMF75-39	39	350	60	905
EMF75-44	44	400	64	1050
EMF75-48	48	450	69	1260
EMF75-53	53	500	74	1405
EMF75-58	58	550	79	1890
EMF75-63	63	600	84	2220

EMF76A Ventilschlüssel / Valve Spanner



Artikel / Article	K (mm)	L (mm)	BeCo (g)
EMF76A-1002	40	355	915

EMF76B Ventilschlüssel / Valve Spanner



Artikel / Article	B (mm)	Φ (mm)	L (mm)	BeCo (g)
EMF76B-1002	60	36	370	730
EMF76B-1004	80	48	430	1520
EMF76B-1006	102	62	550	2250

EMF76E Ventilschlüssel / Valve Spanner



Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF76E-1002	40	50	300	590
EMF76E-1004	55	74	450	1165
EMF76E-1006	70	80	600	1950
EMF76E-1008	90	100	800	2800

EMF76C Ventilschlüssel / Valve Spanner



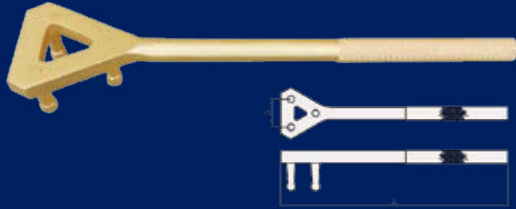
Artikel / Article	B (mm)	R (mm)	L (mm)	BeCo (g)
EMF76C-1002	30	15	250	415
EMF76C-1004	40	20	300	540
EMF76C-1006	50	25	400	1050
EMF76C-1008	60	30	550	1800
EMF76C-1010	130	65	750	4900

EMF76D Ventilschlüssel / Valve Spanner



Artikel / Article	B (mm)	R (mm)	L (mm)	BeCo (g)
EMF76D-1002	50	22.5	290	775
EMF76D-1004	60	35.5	430	1770
EMF76D-1006	80	40	520	2770
EMF76D-1008	90	45	660	4080

EMF76F Ventilschlüssel / Valve Spanner



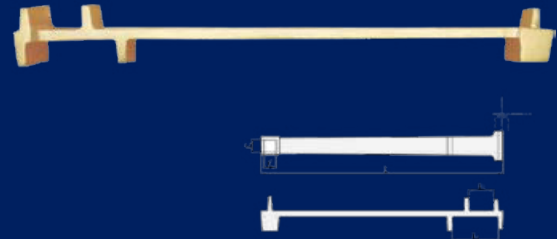
Artikel / Article	L (mm)	A (mm)	BeCo (g)
EMF76F-200	200	25	220
EMF76F-250	250	35	375
EMF76F-300	300	42	440
EMF76F-350	350	62	660
EMF76F-400	400	90	1030
EMF76F-450	450	110	1430
EMF76F-500	500	165	2090
EMF76F-550	550	225	2420

EMF79A Fassschlüssel / Wrench, Bung



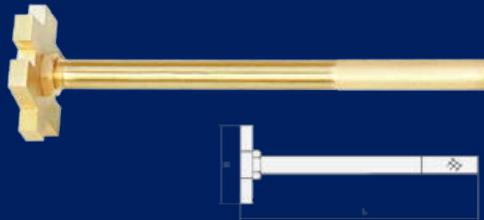
Artikel / Article	L (mm)	S1 (mm)	S2 (mm)	BeCo (g)
EMF79A-1002	300	38	52	830

EMF79B Fassschlüssel / Wrench, Bung



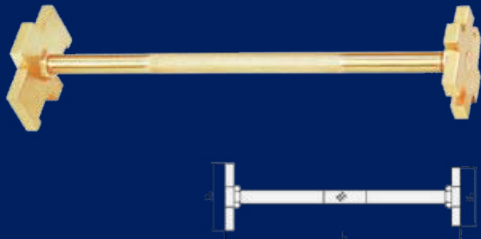
Artikel / Article	L (mm)	C (mm)	K1 (mm)	K2 (mm)	BeCo (g)
EMF79B-1002	520	19	40	73	1120

EMF77 Fassschlüssel / Wrench, Bung



Artikel / Article	L (mm)	H (mm)	BeCo (g)
EMF77-1002	300	70	630

EMF78 Fassschlüssel / Wrench, Bung



Artikel / Article	L (mm)	H1 (mm)	H2 (mm)	BeCo (g)
EMF78-1002	350	70	95	1165

EMF79 Fassschlüssel / Wrench, Bung



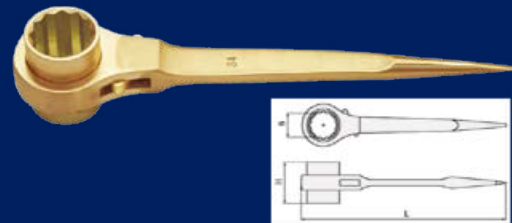
Artikel / Article	L (mm)	H1 (mm)	H2 (mm)	BeCo (g)
EMF79-1002	385	93	61	1250

EMF79C Fassöffner / Drum Opener



Artikel / Article	Size	BeCo (g)
EMF79C-1002	NS-200	3100

EMF80 Ratschenschlüssel / Ratchet Wrench



Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF80-22	22	270	50	580
EMF80-24	24	280	53	620
EMF80-27	27	290	56	730
EMF80-30	30	300	58	800
EMF80-32	32	310	60	900
EMF80-36	36	320	65	1000
EMF80-38	38	320	65	1150
EMF80-41	41	330	70	1500

EMF80A Ratschenschlüssel / Ratchet Wrench



Artikel / Article	S1 (mm)	S2 (mm)	L (mm)	BeCo (g)
EMF80A-1417	14	17	280	410
EMF80A-1719	17	19	310	450
EMF80A-1922	19	22	345	530
EMF80A-2224	22	24	365	680
EMF80A-2427	24	27	380	860
EMF80A-2730	27	30	400	990
EMF80A-3032	30	32	400	1025
EMF80A-3236	32	36	450	1450
EMF80A-3641	36	41	495	1860

EMF80B Ratschenschlüssel / Ratchet Wrench



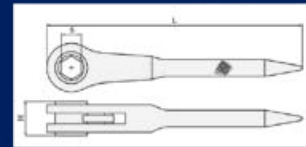
Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF80B-22	22	400-650	1700
EMF80B-24	24	450-700	2000
EMF80B-27	27	500-750	2500
EMF80B-30	30	535-800	3000
EMF80B-32	32	535-800	3150
EMF80B-36	36	580-880	3350
EMF80B-41	41	600-900	3600

EMF82 Ratschenschlüssel / Ratchet Wrench



Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF82-17	17	230	35	725
EMF82-19	19	240	35	745
EMF82-21	21	250	38	942
EMF82-22	22	260	38	963
EMF82-24	24	270	39	1175
EMF82-26	26	280	39	1221
EMF82-27	27	285	39	1253
EMF82-30	30	300	42	1532
EMF82-32	32	315	42	1622
EMF82-35	35	325	43	1821
EMF82-36	36	330	43	1829
EMF82-41	41	330	45	2129

EMF81 Ratschenschlüssel / Ratchet Wrench



Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF81-17	17	290	35	720
EMF81-19	19	300	35	850
EMF81-22	22	320	38	995
EMF81-24	24	329	39	1230
EMF81-27	27	380	39	1500
EMF81-30	30	433	42	1900
EMF81-32	32	435	42	1935
EMF81-36	36	487	43	2580

EMF83 Ratschenschlüssel / Ratchet Wrench



EMF83A Ratschenschlüssel / Ratchet Wrench



Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMF83A-9	9	150	125
EMF83A-11	11	150	125
EMF83A-13	13	155	160
EMF83A-14	14	155	160
EMF83A-17	17	200	260
EMF83A-19	19	200	260
EMF83A-22	22	220	340
EMF83A-24	24	220	340
EMF83A-27	27	245	560
EMF83A-30	30	280	840
EMF83A-32	32	280	840
EMF83A-36	36	290	1180
EMF83A-41	41	295	1230
EMF83A-46	46	360	2060
EMF83A-50	50	360	2230
EMF83A-55	55	440	2900
EMF83A-60	60	440	2900

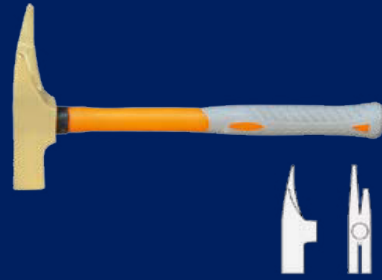
Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMF83-17	17	250	35	710
EMF83-19	19	250	42	896
EMF83-21	21	250	42	1030
EMF83-22	22	250	42	1105
EMF83-24	24	250	48	1345
EMF83-26	26	250	48	1365
EMF83-27	27	250	48	1580
EMF83-30	30	250	53	1795
EMF83-32	32	250	53	1990
EMF83-35	35	250	60	2010
EMF83-36	36	250	60	2225

EMF85 Klauenhammer / Hammer, Claw



Artikel / Article	H (g)	L (mm)	(g)
EMF85-1002	230	280	405
EMF85-1004	450	300	652
EMF85-1006	680	330	953
EMF85-1008	910	390	1205

EMF85A Zimmermannshammer / Carpenter's Hammer



Artikel / Article	H (g)	L (mm)	(g)
EMF85A-1002	500	300	700
EMF85A-1004	600	330	870

EMF86 Schlosserhammer / Hammer, Cross Pein Engineers'



DIN1041

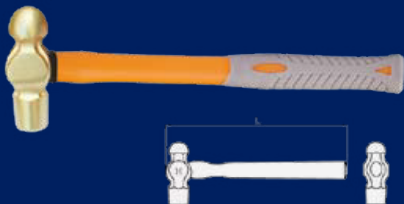
Artikel / Article	H (g)	L (mm)	(g)
EMF86-1002	500	310	655
EMF86-1004	1000	340	1175
EMF86-1006	1500	400	1850
EMF86-1008	2000	450	2455
EMF86-1010	3000	700	3700
EMF86-1012	5000	900	6000

EMF88 Schrotmeißel / Hammer, Cutoff



Artikel / Article	H (g)	L (mm)	(g)
EMF88-1002	300	280	420
EMF88-1004	450	310	650
EMF88-1006	600	340	900

EMF87 Ausbeul- Kugelhammer / Hammer, Ball Pein



Artikel / Article	H (g)	L (mm)	(g)
EMF87-1002	230	280	403
EMF87-1004	340	280	502
EMF87-1006	450	310	680
EMF87-1008	680	340	950
EMF87-1010	910	350	1205
EMF87-1012	1130	400	1470

EMF89 Hammer mit Kreuzpinne / Hammer, Pein



Artikel / Article	H (g)	L (mm)	(g)
EMF89-1002	250	330	461
EMF89-1004	300	330	570

EMF87A Kugelhammer / Hammer, Ball Pein



Artikel / Article	H (g)	L (mm)	(g)
EMF87A-1002	230	280	403
EMF87A-1004	340	280	502
EMF87A-1006	450	310	680
EMF87A-1008	680	340	950
EMF87A-1010	910	350	1205
EMF87A-1012	1130	400	1470

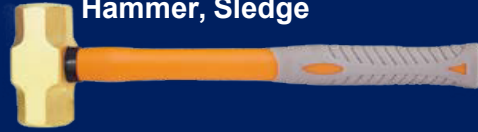
EMF89A Schrothammer (Japanischer Typ) Hammer, Cutoff (Japan Type)



Artikel / Article	H (g)	L (mm)	(g)
EMF89A-1002	230	280	420
EMF89A-1004	380	450	500

**EMF84 Maurerhammer /
Hammer, Bricklayers**


Artikel / Article	H (g)	L (mm)	W (g)
EMF84-1002	600	305	750
EMF84-1004	800	340	1000

**EMF91 Fäustel - Vorschlaghammer /
Hammer, Sledge**


Artikel / Article	H (g)	L (mm)	(g)
EMF91-1002	450	310	610
EMF91-1004	1000	400	1300
EMF91-1006	1400	400	1700
EMF91-1008	1500	400	1800
EMF91-1010	1800	400	2100
EMF91-1012	2000	400	2300
EMF91-1014	2200	400	2500
EMF91-1016	2500	700	3210
EMF91-1018	2700	700	3410
EMF91-1020	3000	700	3710
EMF91-1022	3600	700	4310
EMF91-1024	4000	900	4910
EMF91-1026	4500	900	5410
EMF91-1028	5000	900	5910
EMF91-1030	5400	900	6310
EMF91-1032	6400	900	7310
EMF91-1034	7200	900	8110
EMF91-1036	8000	900	8910
EMF91-1038	8200	900	9110
EMF91-1040	9100	900	10010
EMF91-1042	9900	900	10810

**EMF89B Schlosserhammer
Hammer, Engineer's Cross Pein**


Artikel / Article	H (g)	L (mm)	(g)
EMF89B-1002	500	310	650
EMF89B-1004	900	350	1100

**EMF91A Vorschlaghammer /
Hammer, Sledge**


Artikel / Article	H (g)	L (mm)	(g)
EMF91A-1002	450	310	450
EMF91A-1004	1000	400	1000
EMF91A-1006	1400	400	1400
EMF91A-1008	1500	400	1500
EMF91A-1010	1800	400	1800
EMF91A-1012	2000	400	2000
EMF91A-1014	2200	400	2200
EMF91A-1016	2500	700	2500
EMF91A-1018	2700	700	2700
EMF91A-1020	3000	700	3000
EMF91A-1022	3600	700	3600
EMF91A-1024	4000	900	4000
EMF91A-1026	4500	900	4500
EMF91A-1028	5000	900	5000
EMF91A-1030	5400	900	5400
EMF91A-1032	6400	900	6400
EMF91A-1034	7200	900	7200
EMF91A-1036	8000	900	8000
EMF91A-1038	8200	900	8200
EMF91A-1040	9100	900	9100
EMF91A-1042	9900	900	9900

**EMF90 Kesselsteinhammer /
Hammer, Scaling**


Artikel / Article	H (g)	L (mm)	(g)
EMF90-1002	150	280	205
EMF90-1004	300	280	370

**EMF91D Fäustel-Minenhammer /
Club Hammer**


Artikel / Article	Size (lb)	(g)
EMF91D-1002	2	910
EMF91D-1004	4	1800

**EMF91C Fäustel (Deutsche Version) /
Hammer, Sledge (German Type)**

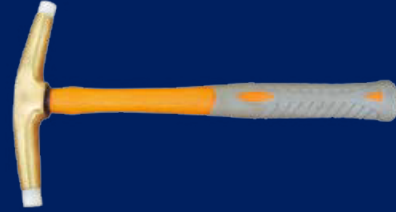

Artikel / Article	H (g)	L (mm)	(g)
EMF91C-1002	500	310	650
EMF91C-1004	1000	400	1300
EMF91C-1006	1500	400	1800
EMF91C-1008	2000	400	2300
EMF91C-1010	3000	700	3700
EMF91C-1012	4000	900	4900
EMF91C-1014	5000	900	5900

EMF91G Fäustel / Sledge Hammer



Artikel / Article	H (g)	L (mm)	(g)
EMF91G-1002	450	310	640
EMF91G-1004	1000	320	1200
EMF91G-1006	1400	360	1620
EMF91G-1008	1500	360	1720
EMF91G-1010	1800	380	2020
EMF91G-1012	2000	380	2240
EMF91G-1014	2200	400	2440
EMF91G-1016	2500	400	2740
EMF91G-1018	2700	400	2940
EMF91G-1020	3000	700	3630
EMF91G-1022	3600	700	4230
EMF91G-1024	4000	800	4790
EMF91G-1026	4500	800	5290
EMF91G-1028	5000	800	5790
EMF91G-1030	5400	800	6190
EMF91G-1032	6400	800	7190
EMF91G-1034	7200	900	8130
EMF91G-1036	8000	900	8930
EMF91G-1038	8200	900	9130
EMF91G-1040	9100	900	10030
EMF91G-1042	9900	900	10830

EMF91F Nylonhammer / Nylon Hammer



Artikel / Article	H (g)	L (mm)	(g)
EMF91F-1002	420	280	420
EMF91F-1004	650	340	650

EMF92 Testhammer / Hammer, Testing



Artikel / Article	H (g)	L (mm)	(g)
EMF92-1002	150	300	206
EMF92-1004	250	335	345

EMF92A Fäustel / Sledge Hammer



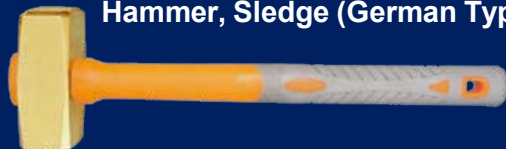
Artikel / Article	H (g)	L (mm)	(g)
EMF92A-1002	1000	370	1300
EMF92A-1004	1400	370	1700
EMF92A-1006	1500	370	1800
EMF92A-1008	1800	370	2100
EMF92A-1010	2000	370	2300
EMF92A-1012	2200	370	2500
EMF92A-1014	2500	900	3460
EMF92A-1016	2700	900	3660
EMF92A-1018	3000	900	3960
EMF92A-1020	3600	900	4560
EMF92A-1022	4000	900	4960
EMF92A-1024	4500	900	5460
EMF92A-1026	5000	900	5960
EMF92A-1028	5400	900	6360
EMF92A-1030	6400	900	7360
EMF92A-1032	7200	900	8160
EMF92A-1034	8000	900	8960
EMF92A-1036	8200	900	9160
EMF92A-1038	9100	900	10060
EMF92A-1040	9900	900	10860

EMF91H Fäustel / Sledge Hammer



Artikel / Article	H (g)	L (mm)	(g)
EMF91H-1002	450	310	450
EMF91H-1004	1000	360	1000
EMF91H-1006	1400	360	1400
EMF91H-1008	1500	360	1500
EMF91H-1010	1800	380	1800
EMF91H-1012	2000	380	2000
EMF91H-1014	2200	400	2200
EMF91H-1016	2500	400	2500
EMF91H-1018	2700	400	2700
EMF91H-1020	3000	700	3000
EMF91H-1022	3600	700	3600
EMF91H-1024	4000	800	4000
EMF91H-1026	4500	800	4500
EMF91H-1028	5000	800	5000
EMF91H-1030	5400	800	5400
EMF91H-1032	6400	800	6400
EMF91H-1034	7200	900	7200
EMF91H-1036	8000	900	8000
EMF91H-1038	8200	900	8200
EMF91H-1040	9100	900	9100
EMF91H-1042	9900	900	9900

EMF92B Fäustel (Deutsche Version) / Hammer, Sledge (German Type)



Artikel / Article	H (g)	L (mm)	(g)
EMF92B-1004	1000	370	1300
EMF92B-1006	1500	370	1800
EMF92B-1008	2000	370	2300
EMF92B-1010	3000	900	3950
EMF92B-1012	4000	900	4950
EMF92B-1014	5000	900	5950

EMF91E Nylonhammer / Nylon Hammer



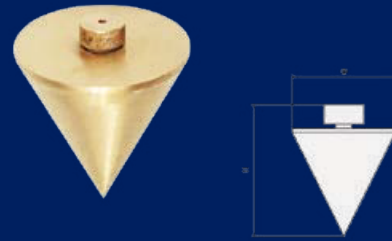
Artikel / Article	Size (g)	L (mm)	(g)
EMF91E-1002	800	340	800
EMF91E-1004	1000	400	1000

EMF94 Pickel / Pick Railroad



Artikel / Article	Size	A (mm)	L (mm)	BeCo (g)
EMF94-1002	1#	360	910	2100
EMF94-1004	2#	385	910	2950
EMF94-1006	3#	410	910	3385
EMF94-1008	4#	470	910	3715

EMF93 Lot / Hammer, Plumb



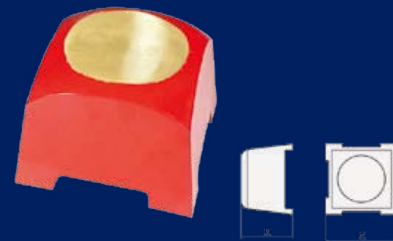
Artikel / Article	H (g)	Φ (mm)	BeCo (g)
EMF93-1002	59	50	275

EMF94A Pickel / Pick Railroad



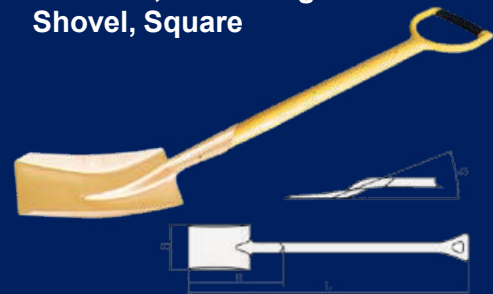
Artikel / Article	Size	L (mm)	BeCo (g)
EMF94A-1002	1#	910	2100
EMF94A-1004	2#	910	2950
EMF94A-1006	3#	910	3385
EMF94A-1008	4#	910	4330

EMF97 Schabotte / Anvil Block



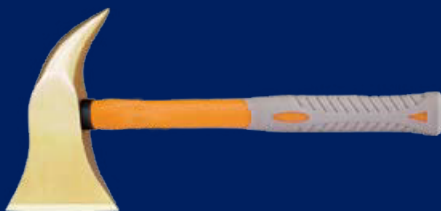
Artikel / Article	Size (g)	H (mm)	K (mm)
EMF97-1002	3000	63	92
EMF97-1004	5000	75	111
EMF97-1006	16000	114	160

EMF98 Schaufel, rechteckig / Shovel, Square



Artikel / Article	L (mm)	H (mm)	B (mm)	BeCo (g)
EMF98-1002	940	175	340	1410
EMF98-1004	990	240	418	1804

EMF95 Feuerwehrraxt / Axe Fireman



Artikel / Article	L (mm)	H (mm)	B (mm)	BeCo (g)
EMF95-1002	340	200	98	1425

EMF96 Axt / Axe



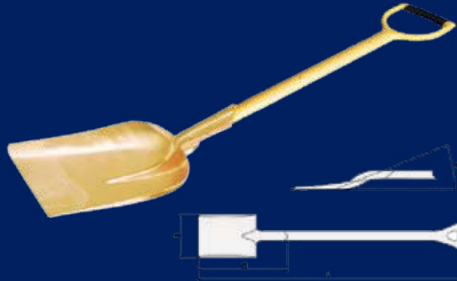
Artikel / Article	L (mm)	H (mm)	B (mm)	BeCo (g)
EMF96-1002	340	145	82	980

EMF98A Schaufel, rechteckig / Shovel, Square



Artikel / Article	L (mm)	H (mm)	B (mm)	BeCo (g)
EMF98A-1002	1400	175	340	1800
EMF98A-1004	1450	240	418	2200

EMF99 Ascheschaufel / Dust Pan



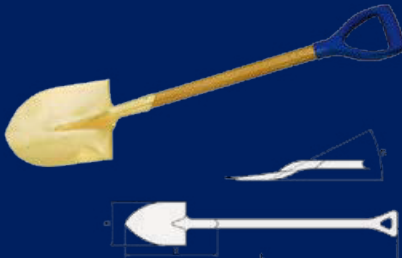
Artikel / Article	L (mm)	H (mm)	B (mm)	BeCo (g)
EMF99-1002	990	270	520	2330

EMG00 Rundschaufel / Shovel, Round Point



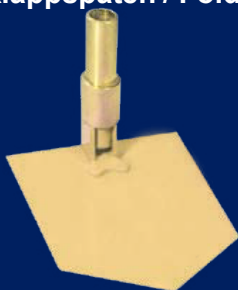
Artikel / Article	L (mm)	B (mm)	H (mm)	BeCo (g)
EMG00-1002	990	240	420	1553

EMG00A Rundschaufel / Shovel, Round Point



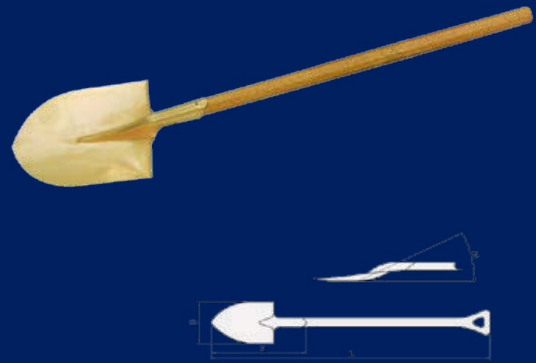
Artikel / Article	L (mm)	B (mm)	H (mm)	BeCo (g)
EMG00A-1002	830	170	300	1300

EMG01 Klappspaten / Folding Spade



Artikel / Article	L (mm)	B (mm)	H (mm)	BeCo (g)
EMG01-1002	320	180	130	1500

EMG00B Rundschaufel / Shovel, Round Point



Artikel / Article	L (mm)	B (mm)	H (mm)	BeCo (g)
EMG00B-1002	1450	240	420	1553

EMG01A Spaten / Edging Spade



Artikel / Article	H (mm)	B (mm)	H1 (mm)	BeCo (g)
EMG01A-1002	1390	195	290	3500
EMG01A-1004	1440	175	340	3700

EMG04B Elektrikermesser / Electrician Knife



Artikel / Article	L (mm)	L1 (mm)	BeCo (g)
EMG04B-1002	61	113	210

EMG04F Messer / Knife



Artikel / Article	L (mm)	L1 (mm)	BeCo (g)
EMG04F-1002	110	216	90

EMG02 Messer / Knife, Common



Artikel / Article	L (mm)	L1 (mm)	BeCo (g)	Br (g)
EMG02-1002	80	185	75	
EMG02-1004	145	250	95	

EMG02A Messer / Knife



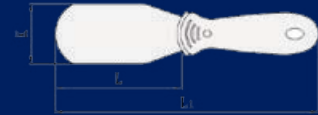
Artikel / Article	L (mm)	L1 (mm)	BeCo (g)
EMG02A-1002	90	203	80

EMG02B Messer / Knife, Common



Artikel / Article	L (mm)	L1 (mm)	BeCo (g)
EMG02B-1002	80	193	75
EMG02B-1004	137	250	95

EMG04A Rundspachtel / Spatula



Artikel / Article	B (mm)	L (mm)	L1 (mm)	BeCo (g)
EMG04A-1002	30	203	90	85
EMG04A-1004	50	218	105	115
EMG04A-1006	90	233	120	160

EMG04D Spachtel / Spatula



Artikel / Article	K (mm)	L (mm)	L1 (mm)	BeCo (g)
EMG04D-1002	40	350	230	120

EMG04G Messer / Knife



Artikel / Article	L (mm)	L1 (mm)	BeCo (g)
EMG04G-1002	75	180	90

EMG05 Schaber / Scraper



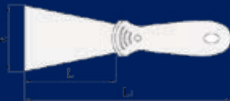
Artikel / Article	L (mm)	B (mm)	H (mm)	BeCo (g)
EMG05-1002	902	50	2	683

EMG03 Spachtel / Knife, Putty



Artikel / Article	K (mm)	L (mm)	L1 (mm)	BeCo (g)
EMG03-1002	25	95	200	75
EMG03-1004	40	95	200	95
EMG03-1006	50	95	200	105
EMG03-1008	65	95	200	115

EMG03A Spachtel / Knife, Putty



Artikel / Article	K (mm)	L (mm)	L1 (mm)	BeCo (g)
EMG03A-1002	25	90	203	75
EMG03A-1004	40	90	203	95
EMG03A-1006	50	90	200	105
EMG03A-1008	65	90	203	115

EMG03B Spachtel / Knife, Putty



Artikel / Article	K (mm)	L (mm)	L1 (mm)	BeCo (g)
EMG03B-1002	75	90	203	150
EMG03B-1004	100	90	203	175
EMG03B-1006	150	140	253	280

EMG04 Spachtel / Knife, Putty



Artikel / Article	K (mm)	L (mm)	L1 (mm)	BeCo (g)
EMG04-1002	75	95	200	100
EMG04-1004	100	95	200	105
EMG04-1006	150	145	250	215

EMG04C Spachtel / Knife, Putty



Artikel / Article	K (mm)	L (mm)	L1 (mm)	BeCo (g)
EMG04C-1002	25	95	200	75
EMG04C-1004	40	95	200	95
EMG04C-1006	50	95	200	105
EMG04C-1008	65	95	200	115

EMG04E Spachtel / Knife, Putty



Artikel / Article	K (mm)	L (mm)	L1 (mm)	BeCo (g)
EMG04E-1002	75	95	200	100
EMG04E-1004	100	95	200	105
EMG04E-1006	150	145	250	215

EMG05A Schaber / Scraper



Artikel / Article	L (mm)	B (mm)	H (mm)	BeCo (g)
EMG05A-1002	902	50	2	683

EMG06 Schaber / Scraper, Flat



Artikel / Article	L (mm)	B (mm)	L1 (mm)	BeCo (g)
EMG06-1002	200	30	325	330
EMG06-1004	300	30	430	480
EMG06-1006	350	35	490	640
EMG06-1008	350	50	500	1020
EMG06-1010	400	60	560	1520

EMG07 Schaber / Scraper, Deck



Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG07-1002	250	39	285
EMG07-1004	300	45	380
EMG07-1006	350	55	555
EMG07-1008	400	50	775
EMG07-1010	650	56	1405
EMG07-1012	750	58	1540

Artikel / Article	L (inch)	B (inch)	BeCo (g)
EMG07A-1002	12	2	460

EMG08 Schaber / Scraper, Deck



Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG08-1002	270	40	371

EMG09 Schaber / Scraper, Deck



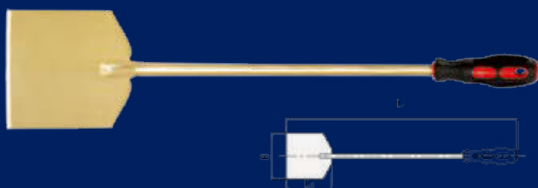
Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG09-1002	300	48	432

EMG12 Schaber / Scraper



Artikel / Article	L (mm)	L1 (mm)	B (mm)	BeCo (g)
EMG12-1002	690	90	50	550
EMG12-1004	705	100	75	750
EMG12-1006	720	115	100	850
EMG12-1008	765	150	150	1400

EMG12A Schaber / Scraper, Hand Style



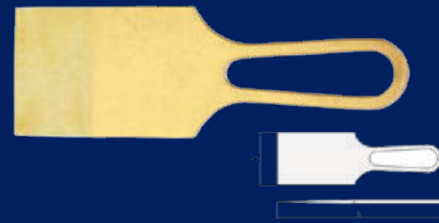
Artikel / Article	L (mm)	L1 (mm)	B (mm)	BeCo (g)
EMG12A-1002	480	95	95	600

EMG10 Schaber / Scraper, Deck



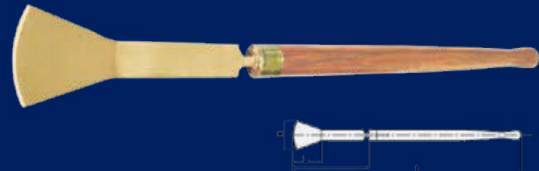
Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG10-1002	380	38	821

EMG11 Schaber für Spritzkabine / Scraper, Spray Booth



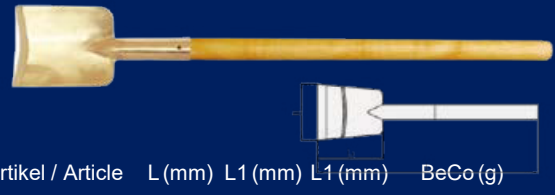
Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG11-1002	235	76	392

EMG12B Rostschaber / Scraper, Rust



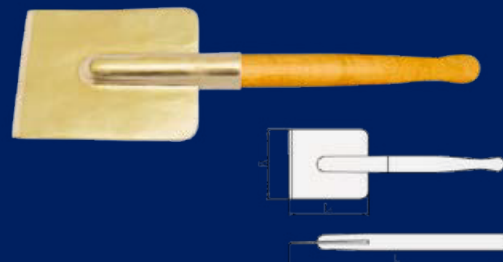
Artikel / Article	L (mm)	B (mm)	L1 (mm)	BeCo (g)
EMG12B-1002	600	75	75	700

EMG13 Schaber / Scraper, Arched



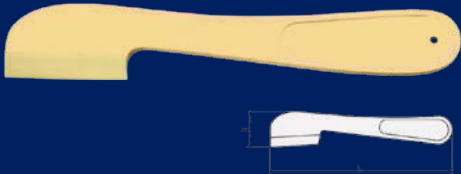
Artikel / Article	L (mm)	L1 (mm)	L1 (mm)	BeCo (g)
EMG13-1002	600	120	50	650
EMG13-1004	710	120	100	925
EMG13-1006	720	120	150	1080

EMG13A Bodenschaber / Scraper, Floor



Artikel / Article	L (mm)	L1 (mm)	B (mm)	BeCo (g)
EMG13A-1002	460	170	150	1150

**EMG14 Karbid-Fassöffner /
Opener Carbide Drum**



Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG14-1002	280	53	655

EMG15 Schaber / Scraper, Tile Cleaver



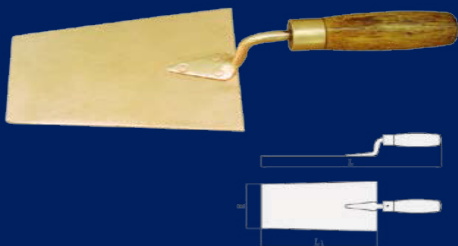
Artikel / Article	L (mm)	L1 (mm)	B (mm)	BeCo (g)
EMG15-1002	180	350	55	610

EMG15A Maurerkelle / Trowel Bricklayer's



Artikel / Article	L (mm)	L1 (mm)	B (mm)	BeCo (g)
EMG15A-1002	335	215	130	700

**EMG15B Maurerkelle, trapezförmig /
Trapezia Shovel Bricklayer's**



Artikel / Article	L (mm)	L1 (mm)	B (mm)	BeCo (g)
EMG15B-1002	290	160	80	420

EMG16 Hobeisen / Plane's Blade



Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG16-1002	175	43	130

EMG17 Flachfeile / File, Flat



Artikel / Article	L (inch)	L (mm)	B (mm)	H (mm)	BeCo (g)
EMG17-1002	6	150	16	4	75
EMG17-1004	8	200	21	4.5	160
EMG17-1006	10	250	25	6	282
EMG17-1008	12	300	30	6.5	455
EMG17-1010	14	350	32	8	675
EMG17-1012	16	400	32	9.5	925

EMG18 Feile, halbrund / File, Half Round



Artikel / Article	L (inch)	L (mm)	B (mm)	H (mm)	BeCo (g)
EMG18-1002	6	150	22	6	105
EMG18-1004	8	200	23	7	190
EMG18-1006	10	250	26	8	255
EMG18-1008	12	300	28	9	375
EMG18-1010	14	350	30	10	565

EMG19 Rundfeile / File, Round



Artikel / Article	L (inch)	L1 (mm)	Φ (mm)	BeCo (g)
EMG19-1002	6	150	6.5	45
EMG19-1004	8	200	7.5	91
EMG19-1006	10	250	8.5	122
EMG19-1008	12	300	9.5	180
EMG19-1010	14	350	10.5	250

EMG20 Vierecksfeile / File, Square



Artikel / Article	L (inch)	L1 (mm)	B (mm)	BeCo (g)
EMG20-1002	8	200	8	130
EMG20-1004	10	250	10	155
EMG20-1006	12	300	11	202
EMG20-1008	14	350	12	303

EMG21 Dreiecksfeile / File, Triangle



Artikel / Article	L (inch)	L1 (mm)	B (mm)	BeCo (g)
EMG21-1002	8	200	12	115
EMG21-1004	10	250	13	125
EMG21-1006	12	300	14	160
EMG21-1008	14	350	14	205

EMG22 Körner / Punch, Machinists'



Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMG22-1002	14	150	165
EMG22-1004	18	200	385
EMG22-1006	20	250	610
EMG22-1008	20	300	725

EMG23A Durchtreiber / Punch Machinists'



Artikel / Article	Φ (mm)	L (mm)	BeCo (g)
EMG23A-1002	5	150	235
EMG23A-1004	8	150	285
EMG23A-1006	10	150	345

EMG23C Durchtreiber / Punch



Artikel / Article	Φ (mm)	Φ1 (mm)	L (mm)	BeCo (g)
EMG23C-1002	5	11	150	105
EMG23C-1004	6	12	150	130
EMG23C-1006	7	13	150	150
EMG23C-1008	8	14	150	170
EMG23C-1010	10	16	175	255
EMG23C-1012	12	18	175	335
EMG23C-1014	13	29	255	1180

EMG23D Durchtreiber / Punch, Machinists'



Artikel / Article	L (mm)	Φ (mm)	BeCo (g)
EMG23D-1002	160	18	290
EMG23D-1004	250	18	470
EMG23D-1006	300	18	600
EMG23D-1008	300	20	700
EMG23D-1010	300	25	1100
EMG23D-1012	400	18	800
EMG23D-1014	400	20	1000

EMG23B Zylindrischer Dorn / Drift Cylindrical DIN6450



Artikel / Article	Φ (mm)	Φ1 (mm)	L (mm)	BeCo (g)
EMG23B-1002	3	9	110	20
EMG23B-1004	4	10	110	57
EMG23B-1006	6	12	115	105
EMG23B-1008	8	14	120	130
EMG23B-1010	10	16	145	200
EMG23B-1012	12	18	160	280
EMG23B-1014	14	20	180	410
EMG23B-1016	16	24	200	640
EMG23B-1018	18	30	225	1070
EMG23B-1020	20	32	225	1230

EMG23E Durchtreiber, tonnenförmig, gerade / Drift pin, barrel straight



Artikel / Article	Φ (mm)	Φ1 (mm)	L (mm)	BeCo (g)
EMG23E-1002	8	11	150	125
EMG23E-1004	10	13	150	155
EMG23E-1006	12	15	150	215
EMG23E-1008	14	18	200	420
EMG23E-1010	15	19	200	435
EMG23E-1012	16	20	200	480
EMG23E-1014	17	21	200	570
EMG23E-1016	18	22	250	600
EMG23E-1018	19	23	250	860
EMG23E-1020	20	24	250	875
EMG23E-1022	21	25	250	950
EMG23E-1024	22	26	250	965
EMG23E-1026	24	28	250	1270
EMG23E-1028	25	29	250	1300
EMG23E-1030	26	30	250	1390
EMG23E-1032	27	31	300	1900

EMG36 Körner / Punch, Center



Artikel / Article	L (mm)	Φ (mm)	BeCo (g)
EMG36-1002	100	16	145
EMG36-1004	150	16	230
EMG36-1006	200	18	392
EMG36-1008	300	18	615
EMG36-1010	400	18	820
EMG36-1012	500	20	1230
EMG36-1014	500	30	2740

**EMG24C Schaber, dreieckig /
Scraper, Triangular**



Artikel / Article	L (mm)	L1 (mm)	K (mm)	BeCo (g)
EMG24C-1002	440	300	20	420

**EMG24D Schaber, halbrund /
Scraper, Half Round**



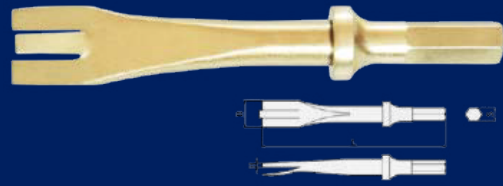
Artikel / Article	L (mm)	L1 (mm)	B (mm)	H (mm)	BeCo (g)
EMG24D-100	440	300	30	5	420

**EMG24 Schaber, dreieckig /
Scraper, Triangular**



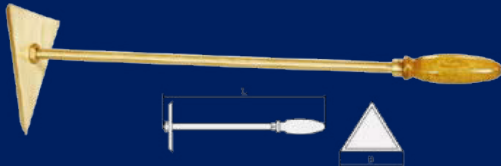
Artikel / Article	L (mm)	L1 (mm)	K (mm)	BeCo (g)
EMG24-1002	160	300	22	245
EMG24-1004	300	400	26	645

**EMG30 Meißel, Pneumatisch /
Chisel, Pneumatic**



Artikel / Article	S (mm)	L (mm)	B (mm)	H (mm)	BeCo (g)
EMG30-1002	10	125	20	2	127
EMG30-1004	10	175	20	2	178

EMG24A Platten-Schaber / Scraper Plate



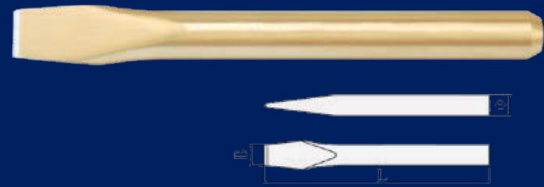
Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG24A-1002	470	150	900

**EMG24B Halbmond-Schaber /
Scraper, Halfmoon**



Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG24B-1002	326	100	260

EMG31 Flachmeißel / Chisel, Flat



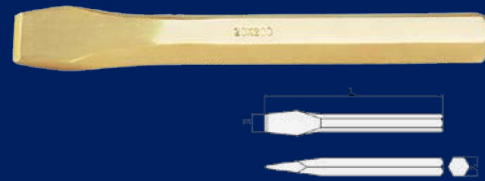
Artikel / Article	L (mm)	Φ (mm)	B (mm)	BeCo (g)
EMG31-1002	160	14	14	175
EMG31-1004	160	16	16	231
EMG31-1006	160	18	18	295
EMG31-1008	200	18	18	382
EMG31-1010	200	20	20	473
EMG31-1012	250	24	24	822
EMG31-1014	300	24	24	1025
EMG31-1016	300	25	25	1302
EMG31-1018	400	25	25	1502
EMG31-1020	500	25	25	1903
EMG31-1022	500	30	30	2730

**EMG25B Schaber Pickel und Schaber /
Scraper Pick and Scaler**

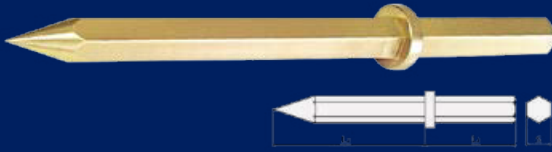


Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG25B-1002	450	75	1285

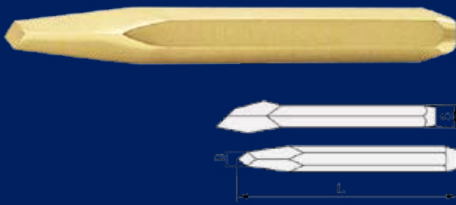
**EMG32 Meißel, 6-kant / Chisel Hex/6 Point
DIN7254**



Artikel / Article	S (mm)	L (mm)	B (mm)	BeCo (g)
EMG32-1002	10	150	12	98
EMG32-1004	14	200	16	251
EMG32-1006	16	160	18	262
EMG32-1008	14	250	16	320
EMG32-1010	17	300	19	772
EMG32-1012	17	350	19	903
EMG32-1014	22	600	24	1861
EMG32-1016	25	300	28	1204
EMG32-1018	30	500	35	2860

**EMG23 Pneumatischer Meißel /
Chisel, Pneumatic Bull Point**


Artikel / Article	S (mm)	L (mm)	L1 (mm)	BeCo (g)
EMG23-1002	28	500	150	2650

**EMG33A Meißel mit Diamantspitze /
Chisel, Diamond Point**


Artikel / Article	S (mm)	L (mm)	B (mm)	BeCo (g)
EMG33A-1002 20	200	13	580	

EMG25 Stemmeisen / Chisel, Cross

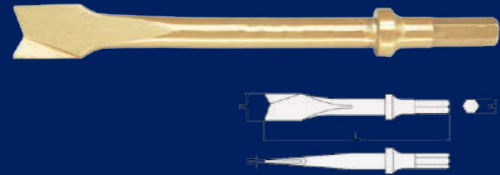

Artikel / Article	S (mm)	L (mm)	H (mm)	BeCo (g)
EMG25-1002	20	200	8	475

**EMG25A Stemmeisen / Chisel, Cross Cutting
DIN6451**


Artikel / Article	S (mm)	B (mm)	H (mm)	BeCo (g)
EMG25A-1002	140	4	4	280
EMG25A-1004	200	4	4	480
EMG25A-1006	300	5	5	840

**EMG25C Flachmeißel / Chisel, Flat
DIN6453**


Artikel / Article	B (mm)	L (mm)	BeCo (g)
EMG25C-1002	22	150	235
EMG25C-1004	22	200	320
EMG25C-1006	24	250	490
EMG25C-1008	25	300	770
EMG25C-1010	27	400	1220

**EMG29 Pneumatischer Meißel /
Chisel, Pneumatic**


Artikel / Article	S (mm)	L (mm)	H (mm)	B (mm)	BeCo (g)
EMG29-1002	10	125	20	162	
EMG29-1004	10	175	20	213	

**EMG28 Pneumatischer Meißel /
Chisel, Pneumatic**


Artikel / Article	S (mm)	L (mm)	B (mm)	BeCo (g)
EMG28-1002	10	125	20	152
EMG28-1004	10	175	20	190

**EMG26 Pneumatisches Stemmeisen /
Chisel, Pneumatic**


Artikel / Article	S (mm)	L (mm)	Φ (mm)	BeCo (g)
EMG26-1002	10	125	12	117
EMG26-1004	10	175	12	168

**EMG27 Pneumatisches Stemmeisen /
Chisel, Pneumatic**


Artikel / Article	S (mm)	L (mm)	B (mm)	H (mm)	BeCo (g)
EMG27-1002	10	125	20	2	160
EMG27-1004	10	175	20	2	210

EMG34A Stemmwerkzeug / Caulking Tool


Artikel / Article	S (mm)	L (mm)	BeCo (g)
EMG34A-1002	50	1200	18450

EMG33 8-kant Meißel / Chisel 8 Point



Artikel / Article	L (mm)	S (mm)	B (mm)	BeCo (g)
EMG33-1002	160	14	14	186
EMG33-1004	160	16	16	255
EMG33-1006	180	19	19	402
EMG33-1008	200	19	19	451
EMG33-1010	200	22	22	650
EMG33-1012	250	24	24	880
EMG33-1014	300	24	24	1052
EMG33-1016	300	30	30	1603
EMG33-1018	400	27	27	1780

EMG37B 6-kant Hebeeisen / Bar(Hex)Pinch



Artikel / Article	L (mm)	S (mm)	B (mm)	BeCo (g)
EMG37B-1002	500	18	20	1200
EMG37B-1004	500	20	22	1450
EMG37B-1006	600	20	22	1750
EMG37B-1008	1000	22	24	3500
EMG37B-1010	1000	25	27	4500
EMG37B-1012	1500	25	27	6750
EMG37B-1014	1000	35	37	8800

EMG37D Brechstange / Bar, Pinch



Artikel / Article	L (mm)	H (mm)	B (mm)	BeCo (g)
EMG37D-1002	600	3	52	2435

EMG37C Brechstange / Bar Crow



Artikel / Article	L (mm)	H (mm)	B (mm)	BeCo (g)
EMG37C-1002	650	20	23	1855
EMG37C-1004	150	30	25	8910

Artikel / Article	L (inch)	H (inch)	B (inch)	BeCo (g)
EMG37C-1001	60	1-1/4	1-3/8	8920

EMG39 Brecheisen / Bar, Wrecking



Artikel / Article	L (mm)	Φ (mm)	B (mm)	H (mm)	BeCo (g)
EMG39-1002	250	13	15	1.5	280

EMG40 Brecheisen / Bar, Wrecking



Artikel / Article	L (mm)	Φ (mm)	BeCo (g)
EMG40-1002	400	16	752
EMG40-1004	600	16	1102
EMG40-1006	800	19	2200
EMG40-1008	1200	20	3570

EMG40A Brecheisen 6-kant / Bar, Wrecking Hex



Artikel / Article	L (mm)	S (mm)	BeCo (g)
EMG40A-1002	460	16	890
EMG40A-1004	760	22	3100
EMG40A-1006	920	22	3650

EMG37 Brecheisen / Bar



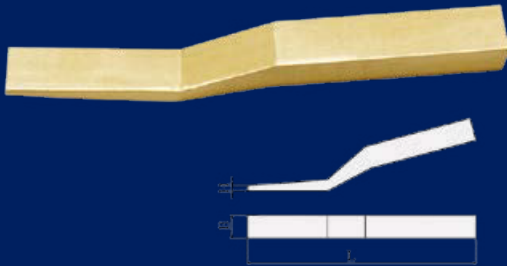
Artikel / Article	L (mm)	Φ (mm)	B (mm)	BeCo (g)
EMG37-1002	500	15	15	738
EMG37-1004	500	19	19	1150
EMG37-1006	500	20	20	1295
EMG37-1008	500	25	25	1975
EMG37-1010	500	30	30	2925
EMG37-1012	600	25	25	2380
EMG37-1014	600	30	30	3450
EMG37-1016	800	23	23	2290
EMG37-1018	800	25	25	3175
EMG37-1020	800	30	30	4490
EMG37-1022	850	30	30	4870
EMG37-1024	1000	25	25	3985
EMG37-1026	1000	28	28	4710
EMG37-1028	1000	30	30	5595
EMG37-1030	1200	25	25	4795
EMG37-1032	1200	30	30	6970
EMG37-1034	1500	30	30	8665

EMG37A Brechstange / Bar, Pinch



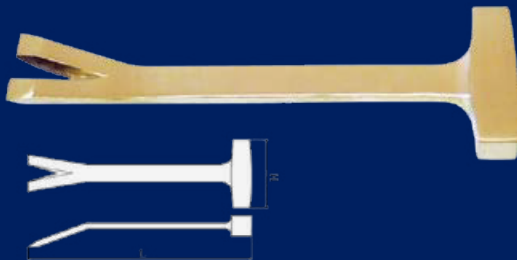
Artikel / Article	L (mm)	Φ (mm)	B (mm)	BeCo (g)
EMG37A-1002	500	15	16	672
EMG37A-1004	500	19	20	1093
EMG37A-1006	500	20	20	1148
EMG37A-1008	500	23	23	1481
EMG37A-1010	600	25	25	2132
EMG37A-1012	800	23	23	2530
EMG37A-1014	1000	30	28	5193

EMG34 Stemmwerkzeug / Caulking Tool



Artikel / Article	S (mm)	H (mm)	H (mm)	BeCo (g)
EMG34-1002	200	20	5	495
EMG34-1004	250	20	8	652

EMG41 Kistenöffner / Crate Opener



Artikel / Article	L (mm)	H (mm)	BeCo (g)
EMG41-1002	230	70	471

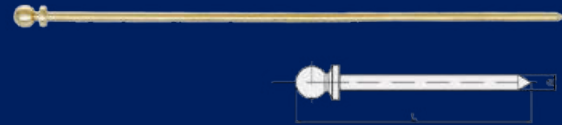
EMG35 Keil / Wedge, Flange



Artikel / Article	L (mm)	B (mm)	H (mm)	BeCo (g)
EMG35-1002	80	13	6	25
EMG35-1004	100	50	10	201
EMG35-1006	135	50	18	497
EMG35-1008	150	40	8	200
EMG35-1010	150	25	8	122
EMG35-1012	150	25	13	205
EMG35-1014	150	50	13	400
EMG35-1016	180	32	13	305
EMG35-1018	180	50	19	700
EMG35-1020	200	20	30	490
EMG35-1022	200	30	30	740
EMG35-1024	200	40	40	1315
EMG35-1026	200	50	12	500
EMG35-1028	230	40	20	751
EMG35-1030	250	40	30	1230
EMG35-1032	300	50	40	2460

Artikel / Article	L (inch)	B (inch)	H (inch)	BeCo (g)
EMG35-1001	4	3/4	1/2	110
EMG35-1003	6	1	1/2	220
EMG35-1005	6	1-1/2	3/4	480
EMG35-1007	7	2	3/4	755
EMG35-1009	8	1-1/2	1	855
EMG35-1011	8-1/2	2	1-1/4	1500

EMG38A Hörnadel mit Kugel / Hearing Needle With Ball



Artikel / Article	L (mm)	Φ (mm)	BeCo (g)
EMG38A-1002	500	6	130

EMG38B Nadel / Needle



Artikel / Article	L (mm)	Φ (mm)	BeCo (g)
EMG38B-1002	180	3	12

EMG37E Hakennadel / Spike



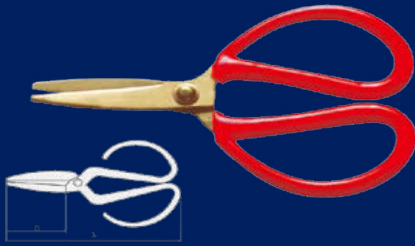
Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG37E-1002	600	22	2320

EMG38 Hörnadel / Hearing Needle



Artikel / Article	L (mm)	Φ (mm)	BeCo (g)
EMG38-1002	250	6	85
EMG38-1004	300	8	150
EMG38-1006	400	7	160
EMG38-1008	500	10	335

EMG42 Schere / Shears



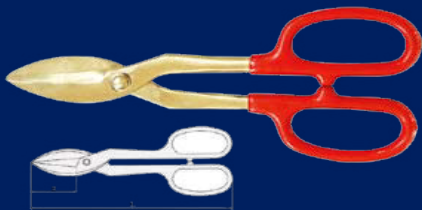
Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG42-1002	150	61	110

EMG43 Schere / Shears



Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG43-1002	290	91	235
EMG43-1004	360	107	900

EMG44 Blechscher / Shears, Tin



Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG44-1002	300	75	488

EMG44A Schere / Scissors



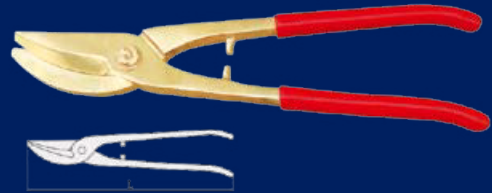
Artikel / Article	L (inch)	L (mm)	B (mm)	BeCo (g)
EMG44A-1002	9	225	98	245

EMG44C Schere / Shears



Artikel / Article	L (mm)	BeCo (g)
EMG44C-1002	200	488

EMG44B Blechscher / Tinner's Snip Plate Shear



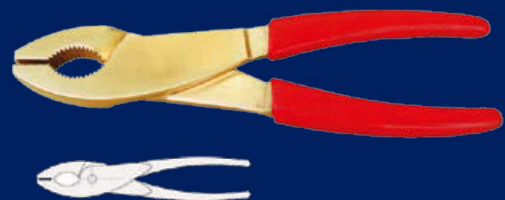
Artikel / Article	L (mm)	BeCo (g)
EMG44B-1002	280	500

EMG45 Zange, verstellbar / Pliers, Adjustable Combination



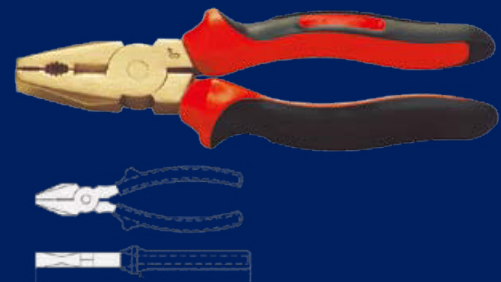
Artikel / Article	L (inch)	L (mm)	Kmax (mm)	BeCo (g)
EMG45-1002	6	150	8	213
EMG45-1004	8	200	13	380

EMG45A Gasrohrzange / Gas Pliers



Artikel / Article	L (mm)	BeCo (g)
EMG45A-1002	200	350

EMG46 Kombizange / Pliers, Lineman



Artikel / Article	L (inch)	B (mm)	BeCo (g)
EMG46-1002	6	150	180
EMG46-1004	7	175	355
EMG46-1006	8	200	465
EMG46-1008	10	250	550

EMG47 Pliers, Cutting



Artikel / Article	L (inch)	L (mm)	BeCo (g)
EMG47-1002	8	200	470

EMG48 Seitenschneider / Pliers, Diagonal Cutting



Artikel / Article	L (inch)	L (mm)	BeCo (g)
EMG48-1002	6	150	245
EMG48-1004	8	200	410

EMG49 Kneifzange / Pincers



Artikel / Article	L (inch)	B (mm)	BeCo (g)
EMG49-1002	8	200	325

EMG49A Kneifzange / Pincers



Artikel / Article	L (inch)	L (mm)	BeCo (g)
EMG49A-1002	7	175	250

EMG50 Flachzange / Pliers, Flat Nose



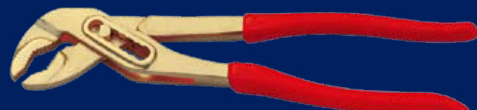
Artikel / Article	L (inch)	L (mm)	BeCo (g)
EMG50-1002	6	150	165
EMG50-1004	8	200	281

EMG51 Wasserpumpenzange mit Rillen-Gleitgelenk / Pliers, Groove Joint



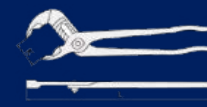
Artikel / Article	L (inch)	L (mm)	Kmax (mm)	BeCo (g)
EMG51-1002	6	150	25	180
EMG51-1004	10	175	45	425
EMG51-1006	12	200	55	670
EMG51-1008	14	250	55	850

EMG52 Wasserpumpenzange mit Gleitgelenk / Pliers, Slip Joint



Artikel / Article	L (inch)	L (mm)	Kmax (mm)	BeCo (g)
EMG52-1002	10	250	32	365

EMG52A Wasserpumpenzange mit Gleitgelenk / Pliers, Water Pump



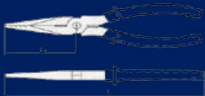
Artikel / Article	L (inch)	L (mm)	Kmax (mm)	BeCo (g)
EMG52A-1002	10	250	32	325
EMG52A-1004	12	300	52	665

EMG53 Spitzzange / Pliers, Snipe Nose



Artikel / Article	L (inch)	L (mm)	Kmax (mm)	BeCo (g)
EMG53-1002	6	150	54	190
EMG53-1004	8	200	74	335

EMG54 Spitzzange / Pliers, Long Nose



Artikel / Article	L (inch)	L (mm)	L1 (mm)	BeCo (g)
EMG54-1002	6	150	54	190
EMG54-1004	8	200	74	335

EMG55 Rundzange / Pliers, Round Nose



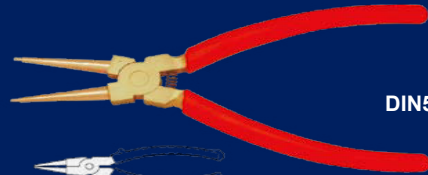
Artikel / Article	L (inch)	L (mm)	BeCo (g)
EMG55-1002	6	150	165

EMG55A Spitzzange, 45° abgewinkelt / Pliers, Round 45 Degree Bent

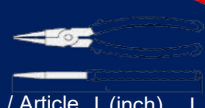


Artikel / Article	L (inch)	L (mm)	BeCo (g)
EMG55A-1002	6	150	190

EMG56 Schnappringzange, intern / Pliers, Snap Ring-Internal

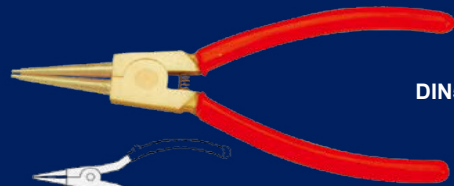


DIN5254



Artikel / Article	L (inch)	L (mm)	BeCo (g)
EMG56-1002	8	200	290
EMG56-1004	10	250	415

EMG57 Schnappringzange, extern / Pliers, Snap Ring-External



DIN5254



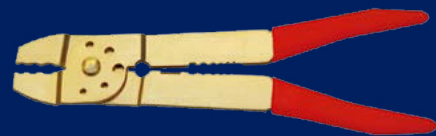
Artikel / Article	L (inch)	L (mm)	BeCo (g)
EMG57-1002	8	200	290
EMG57-1004	10	250	415

EMG57A Bolzenschneider / Bolt Chipper



Artikel / Article	L (mm)	D (mm)	BeCo (g)
EMG57A-1002	600	6	3350
EMG57A-1004	900	8	9250

EMG57B Krimpzange / Crimping Tool, Insulated Cable Connectors



Artikel / Article	L (inch)	L (mm)	BeCo (g)
EMG57B-1002	8	200	225

EMG57C Abisolierzange / Wire Stripping Pliers



Artikel / Article	L (mm)	BeCo (g)
EMG57C-1002	170	225

EMG58 Pinzette, spitz / Tweezers, Neat Tips



Artikel / Article	L (mm)	BeCo (g)
EMG58-1002	150	30
EMG58-1004	200	50

EMG58A Pinzette, flach / Tweezers, Flat Nose



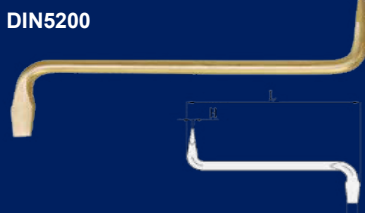
Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG58A-1002	100	8	30
EMG58A-1004	200	15	65

EMG62 Schlitzschraubendreher / Screwdriver



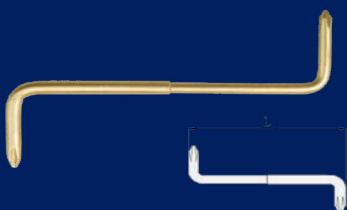
Artikel / Article	L (mm)	L1 (mm)	B (mm)	BeCo (g)
EMG62-1002	200	100	8	135
EMG62-1004	250	110	8	220
EMG62-1006	300	160	10	305
EMG62-1008	500	350	11	505

EMG59 Abgesetzter Schlitzschraubendreher / Slotted Offset Screwdriver



Artikel / Article	L (mm)	H (mm)	K (mm)	BeCo (g)
EMG59-1002	72	1	6	25
EMG59-1004	125	1.5	8	55
EMG59-1006	196	1.5	10	135

EMG59A Abgesetzter Kreuzschlitzschraubendreher / Phillips Offset Screwdriver



Artikel / Article	L (mm)	Size	BeCo (g)
EMG59A-1002	120	1#*2#	50

EMG60 Schlitzschraubendreher / Slotted Screwdriver



Artikel / Article	L1 (inch)	L1 (mm)	L (mm)	H (mm)	B (mm)	BeCo (g)
EMG60-1002	2	50	134	0.4	3	35
EMG60-1004	2	50	134	0.5	4.5	43
EMG60-1006	3	75	159	0.4	3	35
EMG60-1008	3	75	159	0.5	4	45
EMG60-1010	3	75	180	0.6	5	70
EMG60-1012	4	100	184	0.5	4	45
EMG60-1014	4	100	205	0.6	5	75
EMG60-1016	4	100	215	0.8	6	85
EMG60-1018	5	125	240	0.8	6	100
EMG60-1020	6	150	265	0.8	6	110
EMG60-1022	6	150	265	1	7	125
EMG60-1024	6	150	277	1.2	8	140
EMG60-1026	8	200	327	1.2	8	165
EMG60-1028	10	250	377	1.4	9	185
EMG60-1030	10	250	377	2	11	260
EMG60-1032	12	300	427	1.8	10	245
EMG60-1034	12	300	427	2	11	290
EMG60-1036	14	350	477	2	11	320
EMG60-1038	16	400	550	2.4	12	450

EMG61 Kreuzschlitzschraubendreher / Phillips Screwdriver



Artikel / Article	L1 (inch)	Size	L1 (mm)	L (mm)	Φ (mm)	BeCo (g)
EMG61-1002	2	0	50	134	3	35
EMG61-1004	3	1	75	159	4	70
EMG61-1006	4	1	100	205	5	75
EMG61-1008	5	2	125	240	6	100
EMG61-1010	6	2	150	265	6	110
EMG61-1012	8	3	200	327	8	165
EMG61-1014	10	3	250	377	8	185
EMG61-1016	12	4	300	427	9	245
EMG61-1018	14	4	350	477	9	270
EMG61-1020	16	4	400	550	9	295
EMG61-1022	18	4	450	600	9	320

EMG63 Schlitzschraubendreher / Slotted Screwdriver



Artikel / Article	L1 (inch)	L1 (mm)	L (mm)	H (mm)	B (mm)	BeCo (g)
EMG63-1002	2	50	108	0.4	3	35
EMG63-1004	3	75	133	0.5	3	48
EMG63-1006	3	75	153	0.5	4	50
EMG63-1008	3	75	153	0.6	5	51
EMG63-1010	4	100	178	0.5	4	60
EMG63-1012	4	100	178	0.6	5	71
EMG63-1014	4	100	193	0.8	6	77
EMG63-1016	6	150	243	1	7	115
EMG63-1018	8	200	305	1.2	8	197
EMG63-1020	10	250	355	1.4	9	221
EMG63-1022	12	300	420	1.8	10	304
EMG63-1024	14	350	470	2	11	365

EMG63A Elektriker-Schraubendreher / Electrician Screwdriver



Artikel / Article	L1 (inch)	L1 (mm)	L (mm)	H (mm)	B (mm)	BeCo (g)
EMG63A-1002	2	50	134	0.4	3	37
EMG63A-1004	4	100	184	0.5	4	47
EMG63A-1006	4	100	215	0.8	6	95
EMG63A-1008	6	150	277	1.2	8	145
EMG63A-1010	8	200	327	1.8	10	230

EMG63B Driver Hex Nut



Artikel / Article	L1 (inch)	L1 (mm)	S (mm)	BeCo (g)
EMG63B-1002	90	205	6	85
EMG63B-1004	100	215	8	100
EMG63B-1006	110	225	10	140
EMG63B-1008	110	237	13	185
EMG63B-1010	120	247	16	220
EMG63B-1012	120	247	17	230

EMG64 Pozidriv Schraubendreher / Pozidriv Screwdriver



Artikel / Article	L1 (inch)	Size	L1 (mm)	L (mm)	BeCo (g)
EMG64-1002	2	0	50	134	35
EMG64-1004	3	1	75	159	45
EMG64-1006	4	2	100	220	85
EMG64-1008	6	3	150	277	145
EMG64-1010	8	4	200	327	230

EMG64A Torx Schraubendreher / Torx Screwdriver



Artikel / Article	Size	L1 (mm)	L (mm)	BeCo (g)
EMG64A-1002	T10*75	75	180	70
EMG64A-1004	T15*75	75	180	70
EMG64A-1006	T20*100	100	215	100
EMG64A-1008	T25*125	125	240	105
EMG64A-1010	T30*150	150	265	110
EMG64A-1012	T40*200	200	327	165
EMG64A-1014	T45*250	250	377	185
EMG64A-1016	T50*300	300	427	205
EMG64A-1018	T55*350	350	477	245
EMG64A-1020	T60*400	400	527	280

EMG67 Anriss-Nadel / Marking Tool



Artikel / Article	L (mm)	H (mm)	Φ (mm)	BeCo (g)
EMG67-1002	400	40	12	502
EMG67-1004	600	50	16	1152

EMG65 Isolierter Schlitzschraubendreher / Insulated Slotted Screwdriver



Artikel / Article	L1 (inch)	L1 (mm)	L (mm)	H (mm)	B (mm)	BeCo (g)
EMG65-1002	2	50	134	0.4	3	35
EMG65-1004	2	50	134	0.5	4.5	43
EMG65-1006	3	75	159	0.4	3	35
EMG65-1008	3	75	159	0.5	4	45
EMG65-1010	3	75	180	0.6	5	70
EMG65-1012	4	100	184	0.5	4	45
EMG65-1014	4	100	205	0.6	5	75
EMG65-1016	4	100	215	0.8	6	85
EMG65-1018	5	125	240	0.8	6	100
EMG65-1020	6	150	265	0.8	6	110
EMG65-1022	6	150	265	1	7	125
EMG65-1024	6	150	277	1.2	8	140
EMG65-1026	8	200	327	1.2	8	165
EMG65-1028	10	250	377	1.4	9	185
EMG65-1030	10	250	377	2	11	260
EMG65-1032	12	300	427	1.8	10	245
EMG65-1034	12	300	427	2	11	290
EMG65-1036	14	350	477	2	11	320
EMG65-1038	16	400	550	2.4	12	450

EMG66 Isolierter Kreuzschlitzschraubendreher / Insulated Phillips Screwdriver



Artikel / Article	L1 (inch)	Size	L1 (mm)	L (mm)	Φ (mm)	BeCo (g)
EMG66-1002	2	0	50	134	3	35
EMG66-1004	3	1	75	159	4	70
EMG66-1006	4	1	100	205	5	75
EMG66-1008	5	2	125	240	6	100
EMG66-1010	6	2	150	265	6	110
EMG66-1012	8	3	200	327	8	165
EMG66-1014	10	3	250	377	8	185
EMG66-1016	12	4	300	427	9	245
EMG66-1018	14	4	350	477	9	270
EMG66-1020	16	4	400	550	9	295
EMG66-1022	18	4	450	600	9	320

EMG64B Schraubendreher Bits / Screwdriver Bits

Artikel / Article	Size
EMG64B-⓪	4.5, 6.5, 8mm
EMG64B-⊕	1#, 2#, 3#, 4#
EMG64B-⊗	1#, 2#, 3#, 4#
EMG64B-●	3, 4, 5, 6, 7, 10mm
EMG64B-⊛	T10, T15, T20, T25, T27, T30, T40

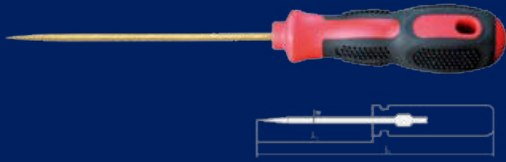


EMG68 Anriss-Nadel / Marking Tool



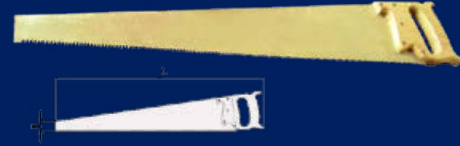
Artikel / Article	L (mm)	H (mm)	Φ (mm)	BeCo (g)
EMG68-1002	187	32	4	15
EMG68-1004	252	42	4	20

EMG69 Ahle / Awl



Artikel / Article	L1 (inch)	L1 (mm)	Φ (mm)	L (mm)	BeCo (g)
EMG69-1002	4	100	3	184	50

EMG72A Handsäge / Hand Saw



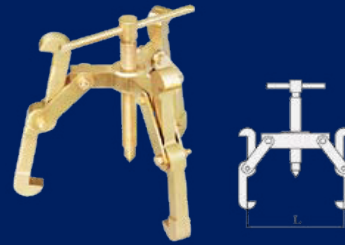
Artikel / Article	L (mm)	H (mm)	BeCo (g)
EMG72A-1002	700	35	555

EMG69A Reiß-Zirkel / Dividers



Artikel / Article	Dmax (mm)	H (mm)	BeCo (g)
EMG69A-1002	200	200	170
EMG69A-1004	400	400	400

EMG73 3 Abzieher / Leg Gear Puller



Artikel / Article	Lmax (mm)	BeCo (g)
EMG73-1002	100	3280
EMG73-1004	150	4050
EMG73-1006	200	5990
EMG73-1008	350	12350

EMG70 Bügelsäge / Hacksaw Frame



Artikel / Article	L (mm)	D (mm)	H (mm)	BeCo (g)
EMG70-1002	500	300	110	645

EMG73A 2 Abzieher / Leg Gear Puller



Artikel / Article	Lmax (mm)	BeCo (g)
EMG73A-1002	100	2765
EMG73A-1004	150	3450
EMG73A-1006	200	5130
EMG73A-1008	350	10560

EMG71 Sägeblatt / Hacksaw Blade



Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG71-1002	300	12	32

EMG72 Handsäge / Hand Saw



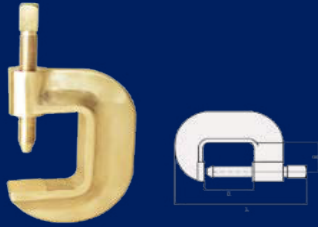
Artikel / Article	L (mm)	H (mm)	BeCo (g)
EMG72-1002	370	114	125

EMG74 Klemme / Clamp



Artikel / Article	L (mm)	K (mm)	B (mm)	BeCo (g)
EMG74-1002	210	60	36	1200
EMG74-1004	250	80	36	1400
EMG74-1006	290	100	36	1610
EMG74-1008	340	150	50	2155

EMG74A Klemme / Clamp



Artikel / Article	L (mm)	K (mm)	B (mm)	BeCo (g)
EMG74A-1002	76	19	19	200
EMG74A-1004	290	115	75	5600
EMG74A-1006	370	165	90	11100

EMG78 Öl-Trichter / Oil Funnel



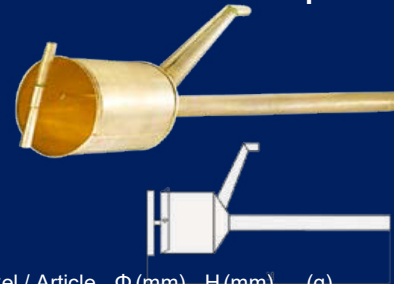
Artikel / Article	Φ (mm)	H (mm)	(g)
EMG78-1002	160	130	260
EMG78-1004	160	150	280

EMG75 Forke, 3 Gabeln / Fork, Three Prong



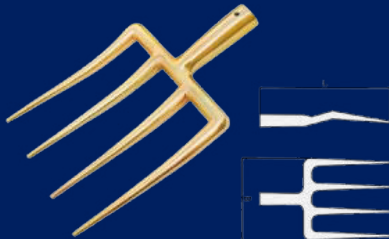
Artikel / Article	L (mm)	B (mm)	H (mm)	BeCo (g)
EMG75-1002	185	200	125	1690

EMG79 Tragbare Ölpumpe / Portable Oil Pump



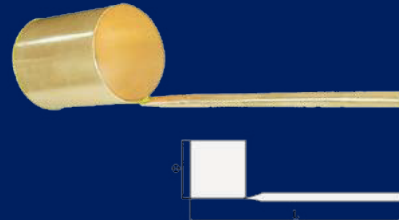
Artikel / Article	Φ (mm)	H (mm)	(g)
EMG79-1002	165	1100	2315

EMG76 Forke, 4 Gabeln / Fork, Four Prong



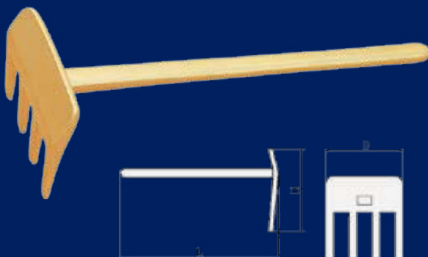
Artikel / Article	L (mm)	B (mm)	BeCo (g)
EMG76-1002	327	200	2150

EMG80 Öl-Kelle / Oil Dipper



Artikel / Article	Φ (mm)	H (mm)	(g)
EMG80-1002	85	350	163

EMG77 Rechen / Cleaning Rust Rake



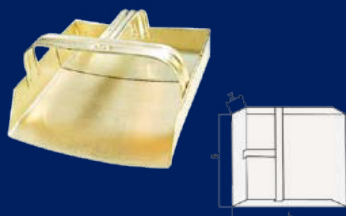
Artikel / Article	L (mm)	B (mm)	H (mm)	BeCo (g)
EMG77-1002	350	105	98	1050

EMG81 Eimer / Bucket



Artikel / Article	Φ (mm)	H (mm)	(g)
EMG81-1002	270	248	1515

EMG82 Ascheschaufel / Dustpan



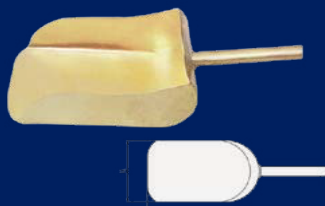
Artikel / Article	L (mm)	B (mm)	H (mm)	(g)
EMG82-1002	150	130	20	130
EMG82-1004	200	200	50	335
EMG82-1006	270	250	50	635

EMG83 Schöpflöffel / Scoop, Sugar



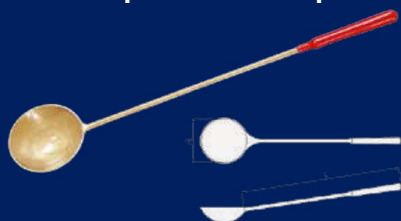
Artikel / Article	L (mm)	H (mm)	Φ1 (mm)	Φ2 (mm)	(g)
EMG83-1002	350	90	160	135	580

EMG83A Schöpflöffel, Schaufel / Scoop, Sugar



Artikel / Article	B (mm)	L (mm)	(g)
EMG83A-1002	75	200	200
EMG83A-1004	140	360	645

EMG83B Schöpflöffel / Scoop



Artikel / Article	Φ (mm)	L (mm)	BeCo (g)
EMG83B-1002	112	500	1220

EMG83C Handsieb / Strainer



Artikel / Article	Φ (mm)	L (mm)	(g)
EMG83C-1002	300	600	1800

EMG84 Kratzbürste, flacher Rücken / Brush, Flat Back, Scratch



Artikel / Article	L*B (mm)	Rows	L (mm)	Brass (g)	Phosphor-Copper (g)
EMG84-1002	205*48	6*16	41	260	260

EMG85 Bürste / Brush



Artikel / Article	L*B (mm)	Rows	L (mm)	Brass (g)	Phosphor-Copper (g)
EMG85-1002	290*29	4*16	28	115	115

EMG85A Bürste / Brush



Artikel / Article	L*B (mm)	Rows	L (mm)	Brass (g)	Phosphor-Copper (g)
EMG85A-1002	350*28	4*19	30	150	150

EMG86 Bürste / Brush



Artikel / Article	L*B (mm)	Rows	L (mm)	Brass (g)	Phosphor-Copper (g)
EMG86-1002	215*29	6*15	15	30	30

EMG86A Bürste, Schuhgriff / Brush, Shoe Handle



Artikel / Article	L*B (mm)	Rows	L (mm)	Brass (g)	Phosphor-Copper (g)
EMG86A-1002	255	4*16	30	180	180

**EMG86B Bürste für Zündkerzenreinigung /
Brush, spark-plug cleaning**



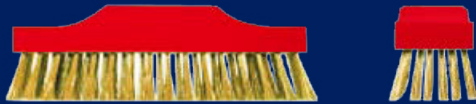
Artikel / Article	L*B (mm)	Rows	L (mm)	Brass (g)	Phosphor-Copper (g)
EMG86B-1002	196	3*7	13	20	20

**EMG86C Runder Auskehrer /
Broom, Round Wire**



Artikel / Article	L*B (mm)	Rows	L (mm)	Brass (g)	Phosphor-Copper (g)
EMG86C-1002	310	6*25	55	1550	1550

**EMG86D Scheuerbürste, rund /
Scrubbing Broom, round wire**



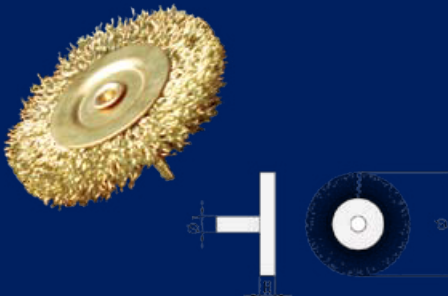
Artikel / Article	L*B (mm)	Rows	L (mm)	Brass (g)	Phosphor-Copper (g)
EMG86D-1002	210	6*17	40	500	500

EMG87 Rohrbürste / Brush, Tube



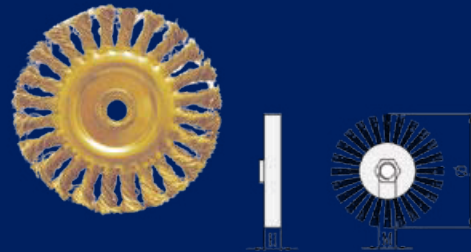
Artikel / Article	Φ (mm)	L1 (mm)	L (mm)	Brass (g)	Phosphor-Copper (g)
EMG87-1002	20	100	320	100	100

EMG88 Rundbürste / Brush, Wheel



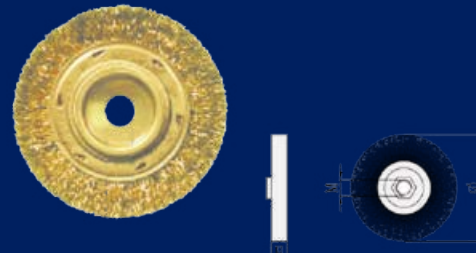
Artikel / Article	Φ (mm)	H (mm)	Φ1 (mm)	Brass (g)	Phosphor-Copper (g)
EMG88-1002	75	10	6	140	140

**EMG89 Rundbürste verknoteter Draht /
Wheel Brush, knot Wire**



Artikel / Article	Φ (mm)	H (mm)	Φ1 (mm)	Brass (g)	Phosphor-Copper (g)
EMG89-1002	125	15	14	440	440

**EMG89A Rundbürste mit gekrimptem Draht /
Brush, Wheel, Crimped Wire**



Artikel / Article	Φ (mm)	H (mm)	M (mm)	Brass (g)	Phosphor-Copper (g)
EMG89A-1002	125	15	14	320	320

EMG90 Bürste in Tassenform / Brush, Cup



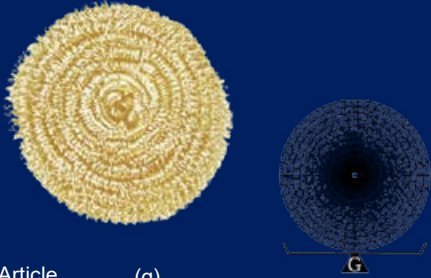
Artikel / Article	Φ (mm)	H (mm)	M (mm)	Brass (g)	Phosphor-Copper (g)
EMG90-1002	100	30	14	480	480

**EMG90A Bürste in Tassenform mit
verknotetem Draht / Cup Brush, knot wire**



Artikel / Article	Φ (mm)	H (mm)	M (mm)	Brass (g)	Phosphor-Copper (g)
EMG90A-1002	100	30	14	580	580

EMG90C Bürste in Ballform / Brush, Ball



Artikel / Article	(g)
EMG90C-1002	25

EMG91 Hacke / Hoe



Artikel / Article	B (mm)	H (mm)	BeCo (g)
EMG91-1002	130	130	1080
EMG91-1004	200	200	1780

EMG93 Manuelle, tragbare Ölpumpe / Manual Portable Oil Pump



Artikel / Article	L (mm)	BeCo (g)
EMG93-1002	1350	6000

EMG90B Stirnbürste / Brush, End



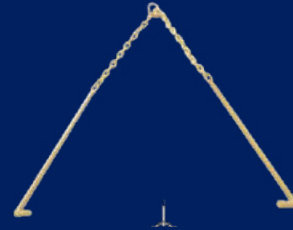
Artikel / Article	Φ (mm)	L (mm)	Φ1 (mm)	Brass (g)	Phosphor-Copper (g)
EMG90B-1002	26	25	6	120	120

EMG92 Schekel / Shackle



Artikel / Article	Size	K (mm)	L (mm)	H (mm)	BeCo (g)
EMG92-1002	1/2	30	60	40	135
EMG92-1004	3/4	37	99	78	915

EMG94 Verstellbarer Fasshaken / Barrel Hook, Adjustable



Artikel / Article	H (kg)	K (mm)	BeCo (g)
EMG94-1002	700	1060	3300

EMG95 Schraubklemme / Screw Clamp



Artikel / Article	B (mm)	Kmax (mm)	BeCo (g)
EMG95-1002	120	400	2395

EMG96 Rechen / Rake



Artikel / Article	L (mm)	B (mm)	H (mm)	BeCo (g)
EMG96-1002	1270	350	100	2080
EMG96-1004	1275	450	120	2300

EMG97 Meißel / Chisel



Artikel / Article	B (mm)	L (mm)	BeCo (g)	AlBr (g)
EMG97-1002	14	280	200	180
EMG97-1004	18	320	270	250

EMG98 Rechen / Rake



Artikel / Article	B (mm)	H (mm)	BeCo (g)
EMG98-1002	300	150	1550

EMG99 Rechen / Rake



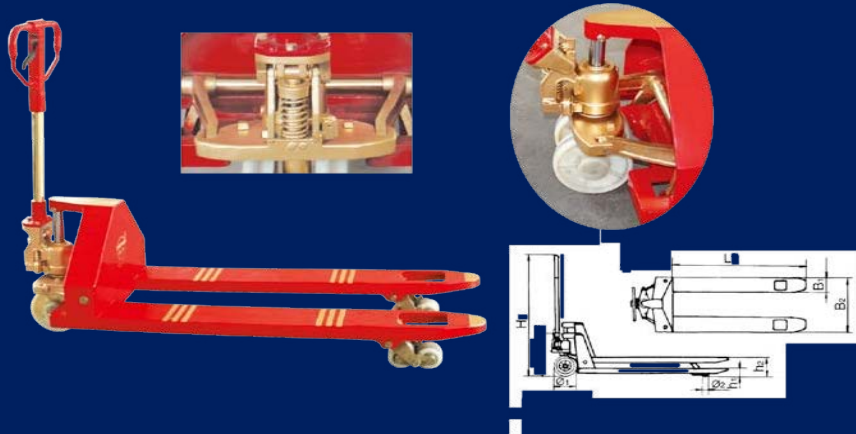
Artikel / Article	K (mm)	B (mm)	H (mm)	BeCo (g)
EMG99-1002	780	160	80	670

EMH00 Feuerhaken / Fire Hook



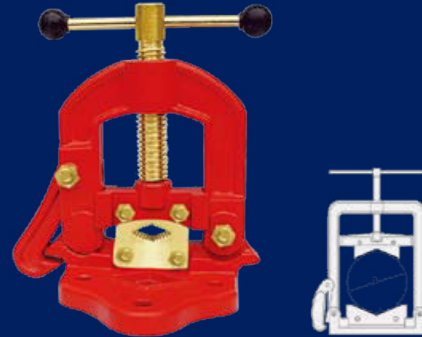
Artikel / Article	L (mm)	L1 (mm)	BeCo (g)
EMH00-1002	270	1215	1365

EMH06 Hydraulischer Hubwagen / Hydraulic Pallet Truck



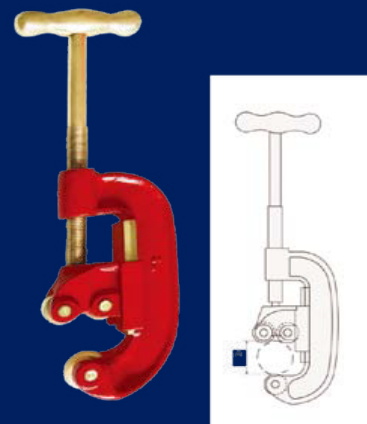
Artikel / Article	Load (kg)	L (mm)	H (mm)	B1 (mm)	B2 (mm)	H1 (mm)	H2 (mm)	Φ1 (inch)	Φ2 (inch)	(kg)
EMH06-1002	2000	1190	1240	160	545	90	190	7	3	132

EMH01 Selbstverschließender Rohrschraubstock / Self Locking Pipe Vice



Artikel / Article	D (mm)	BeCo (g)
EMH01-1002	10-60	4870
EMH01-1004	10-90	10350
EMH01-1006	15-115	15300
EMH01-1008	30-220	30600
EMH01-1010	30-300	38000

EMH05 Rohrschneider / Pipe Cutter



Artikel / Article	D (inch)	D (mm)	BeCo (g)
EMH05-1002	2	50	2210
EMH05-1004	3	70	4070

EMH07 Laufkatze für Kettenzug (ziehend) Trolley For Chain Hoist (Pull Type)



Größe / Size:
FBGCL

Artikel / Article	Capacity Lifting		I-Beam Width (m)	(kg)
	(T)	(m)		
EMH07-1002	0.5	2.5	68-94	16.5
EMH07-1004	1	2.5	68-100	20
EMH07-1006	2	2.5	94-124	26
EMH07-1008	3	3	116-140	27.5
EMH07-1010	5	3	142-180	34
EMH07-1012	10	3	142-180	68
EMH07-1014	16	3	142-180	170

EMH07B Laufkatze für Kettenzug (ziehend) / Trolley For Chain Hoist (Pull Type)



Größe / Size:
FBGCL

Artikel / Article	Capacity (T)	Lifting (m)	I-Beam Width (m)	(kg)
EMH07B-1002	0.5	2.5	68-94	12.5
EMH07B-1004	1	2.5	68-100	14.5
EMH07B-1006	2	2.5	94-124	22.3
EMH07B-1008	3	3	116-140	24
EMH07B-1010	5	3	142-180	34
EMH07B-1012	10	3	142-180	68
EMH07B-1014	16	3	142-180	170
EMH07B-1016	20	3	142-180	170

EMH07A Laufkatze für Kettenzug (ziehend) / Trolley For Chain Hoist (Pull Type)



Size:FBGCT

Artikel / Article	Capacity (T)	I-Beam Width (m)	(kg)
EMH07A-1002	0.5	68-94	13
EMH07A-1004	1	68-100	16.5
EMH07A-1006	2	94-124	22
EMH07A-1008	3	116-140	23.5

EMH08 Kettenzug / Chain Hoist

Size:FBHS

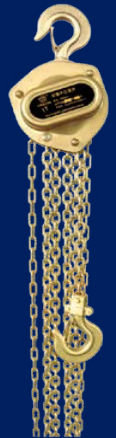
Artikel / Article	Last (Capacity (T))	Höhe / Lifting (m)	Gewicht (kg)
EMH08-1002	0.5	2.5	10.2
EMH08-1004	1	2.5	13.6
EMH08-1006	2	2.5	22
EMH08-1008	3	3	23.6
EMH08-1010	5	3	36
EMH08-1012	10	3	68.5
EMH08-1014	16	3	187



EMH08A Kettenzug / Chain Hoist

Size: FBHS

Artikel / Article	Capacity (T)	Lifting (m)	(kg)
EMH08A-1002	0.5	2.5	11.4
EMH08A-1004	1	2.5	18.4
EMH08A-1006	2	2.5	27.9
EMH08A-1008	3	3	28.3
EMH08A-1010	5	3	54

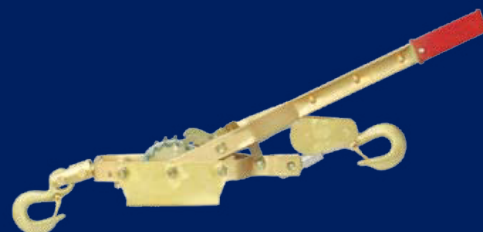


EMH08B Ratschenhebel-Flaschenzug / Ratchet lever Hoist

Artikel / Article	Capacity (T)	Lifting (m)	(kg)
EMH08B-1002	0.75	1.5	7.7
EMH08B-1004	1.5	1.5	11.8
EMH08B-1006	3	1.5	21



EMH08C Greifzug / Come Along



Artikel / Article	Size (T)	(kg)
EMH08C-1002	1	3
EMH08C-1004	2	4.5
EMH08C-1006	3	6.3

EMH09 Drehmomentschlüssel / Torque Wrench



Artikel / Article	C (inch)	Torque (Nm)	L (mm)	BeCo (g)
EMH09-1002	3/8	100	310	600
EMH09-1004	1/2	300	490	1340
EMH09-1006	3/4	500	560	2050

EMH12 Bohrer / Drill Bit



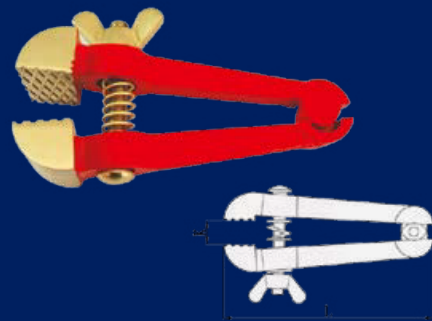
Artikel / Article	Φ (mm)	L (mm)	BeCo (g)
EMH12-1002	6	100	20
EMH12-1004	7	120	30
EMH12-1006	8	140	50
EMH12-1008	9	160	75
EMH12-1010	10	180	100
EMH12-1012	11	200	120
EMH12-1014	12	220	170
EMH12-1016	13	240	220
EMH12-1018	14	260	280
EMH12-1020	15	280	360
EMH12-1022	16	300	440
EMH12-1024	17	300	500
EMH12-1026	18	320	600
EMH12-1028	19	320	700
EMH12-1030	20	330	800

EMH10 Flanschspanner / Flange Prop



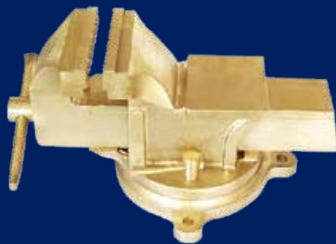
Artikel / Article	Größe / size (mm)	BeCo (g)
EMH10-1002	FZM16-24	7300
EMH10-1004	FZM27-36	9900

EMH11A Klemme / Chisel



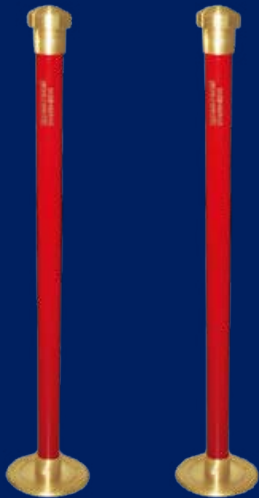
Artikel / Article	K (mm)	L (mm)	BeCo (g)
EMH11A-1002	50	165	915

EMH11 Schraubstock / Parallel Vice



Artikel / Article	B (mm)	Kmax (mm)	BeCo (g)
EMH11-1002	90	90	8150
EMH11-1004	125	125	19550
EMH11-1006	150	150	30000
EMH11-1008	170	170	30300

EMH13 Antistatik-Vorrichtung / Releasing Static Device



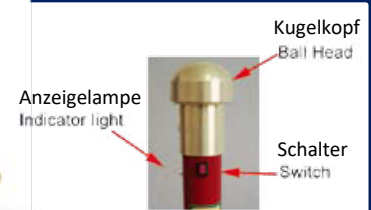
Artikel / Article	L (mm)	D (mm)	AlBr (g)
EMH13-1002	1150	65	3700

Anleitung / Instruction:

Schalten Sie vor Eintritt in brennbare oder explosionsgefährdete Atmosphäre den statischen Entlader ein und fassen den Kugelkopf oben an.



Wenn die statische Elektrizitätsspannung des Menschen die Sicherheitsstufe übersteigt, leuchtet die Kontrollleuchte rot und der Summer ertönt automatisch.



Lassen Sie dann die Hand für 10-15 Sek. an der Kugel, bis nichts geschieht, dann ist der Körper in sicherem Zustand. /

EMH13A Antistatik-Vorrichtung / Releasing Static Device



Artikel / Article	L (mm)	D (mm)	AlBr (g)
EMH13A-1002	1150	65	3800

Before entering flammable or explosive hazardous atmosphere, switch on the static discharger and touch the ball head on the top. If the human static electricity voltage exceeds safety level, the indicator light will turns red and the buzzer alarms automatically. Then continuously touch the ball for 10 to 15 seconds till nothing happens, the human body are in secure state.

EMH14 Schraubenwinde / Screw Jack

Artikel / Article	Model	Capacity (T)	MIN.H (m)	AlBr (g)
EMH14-1002	FBQL3.2	3,2	220	110
EMH14-1004	FBQL 5	5	250	130
EMH14-1006	FBQL10	10	280	150
EMH14-1008	FBQL16	16	320	180



EMG102A Messinghammer, Mallet / Brass Hammer, Mallet



Artikel / Article	Size (lb)	L (mm)	(g)
EMG102A-1002	1	350	450
EMG102A-1004	2	400	910
EMG102A-1006	3	400	1400
EMG102A-1008	5	450	2250
EMG102A-1010	6	800	2700
EMG102A-1012	8	900	4500
EMG102A-1014	10	900	5400
EMG102A-1016	15	900	7650

EMG104B Messinghammer, Mallet / Brass Hammer, Mallet



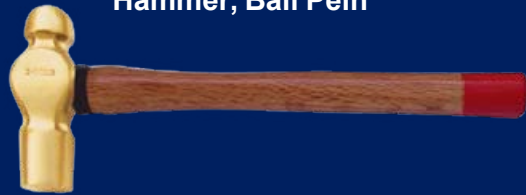
Artikel / Article	Size (lb)	L (mm)	(g)
EMG104B-1002	500	350	500
EMG104B-1004	1000	400	1000
EMG104B-1006	1500	400	1500
EMG104B-1008	1800	400	1800
EMG104B-1010	2000	400	2000
EMG104B-1012	2700	900	2700
EMG104B-1014	3600	900	3600
EMG104B-1016	4000	900	4000
EMG104B-1018	5000	900	5000

EMG104A Messinghammer, Mallet / Brass Hammer, Mallet



Artikel / Article	Size (lb)	L (mm)	(g)
EMG104A-1002	500	350	500
EMG104A-1004	1000	400	1000
EMG104A-1006	1500	400	1500
EMG104A-1008	1800	400	1800
EMG104A-1010	2000	400	2000
EMG104A-1012	2700	900	2700
EMG104A-1014	3600	900	3600
EMG104A-1016	4000	900	4000
EMG104A-1018	5000	900	5000

EMG105B Brass Ausbeul- Kugelhammer / Hammer, Ball Pein



Artikel / Article	Size (lb)	L (mm)	(g)
EMG105B-1002	1/2	280	230
EMG105B-1004	3/4	280	340
EMG105B-1006	1	280	450
EMG105B-1008	1-1/2	310	680
EMG105B-1010	2	340	910
EMG105B-1012	2-1/2	350	1130

EMG105A Messing- Ausbeul- Kugelhammer / Brass Hammer, Ball Pein



Artikel / Article	Size (lb)	L (mm)	(g)
EMG105A-1002	1/2	280	230
EMG105A-1004	3/4	280	340
EMG105A-1006	1	280	450
EMG105A-1008	1-1/2	310	680
EMG105A-1010	2	340	910
EMG105A-1012	2-1/2	350	1130

EMG106A Messinghammer, zweiseitig / Brass Hammer, Double face



Artikel / Article	Size (lb)	L (mm)	(g)
EMG106A-1002	500	350	500
EMG106A-1004	1000	400	1000
EMG106A-1006	2000	400	2000
EMG106A-1008	3000	900	3000
EMG106A-1010	5000	900	5000

EMG102B Messinghammer, Mallet / Brass Hammer, Mallet



Artikel / Article	Size (lb)	L (mm)	(g)
EMG102B-1002	1	350	450
EMG102B-1004	2	400	910
EMG102B-1006	3	400	1400
EMG102B-1008	5	450	2250
EMG102B-1010	6	800	2700
EMG102B-1012	8	900	4500
EMG102B-1014	10	900	5400
EMG102B-1016	15	900	7650

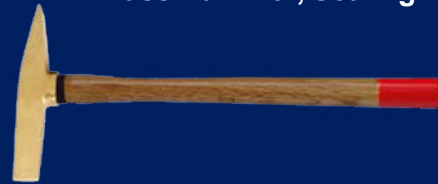
EMG107A Messinghammer, flach (Euro Version) / Brass Flat Hammer (Euro Type)



Artikel / Article	Size (lb)	L (mm)	(g)
EMG107A-1002	1	350	450
EMG107A-1004	2	400	910
EMG107A-1006	3	400	1400
EMG107A-1008	5	450	2250
EMG107A-1010	6	900	2700
EMG107A-1012	8	900	4500
EMG107A-1014	10	900	5400
EMG107A-1016	15	900	7650

**EMG108A Messinghammer, Entrostung /
 Brass Hammer, Scaling**


Artikel / Article	Size (lb)	L (mm)	(g)
EMG108A-1002	150	280	205
EMG108A-1004	300	280	370

**EMG108B Messinghammer, Entrostung /
 Brass Hammer, Scaling**


Artikel / Article	Size (lb)	L (mm)	(g)
EMG108B-1002	150	330	205
EMG108B-1004	300	350	370

EMG109 Nylonhammer / Nylon Hammer


Artikel / Article	Size (lb)	L (mm)	(g)
EMG109-1002	420	280	420
EMG109-1004	650	340	650

**EMG201A Kupfer-Fäustel /
 Copper Hammer, Sledge**


Artikel / Article	Size (lb)	L (mm)	(g)
EMG201A-1002	1	350	450
EMG201A-1004	2	400	910
EMG201A-1006	3	400	1400
EMG201A-1008	4	450	1800
EMG201A-1010	5	450	2250
EMG201A-1012	6	900	2700
EMG201A-1014	8	900	3600
EMG201A-1016	10	900	4500
EMG201A-1018	12	900	5400
EMG201A-1020	14	900	6400
EMG201A-1022	16	900	7200
EMG201A-1024	20	900	9000

**EMG106B Messinghammer, zweiseitig /
 Brass Hammer, Double face**


Artikel / Article	Size (lb)	L (mm)	(g)
EMG106B-1002	500	350	500
EMG106B-1004	1000	400	1000
EMG106B-1006	2000	400	2000
EMG106B-1008	3000	900	3000
EMG106B-1010	5000	900	5000

**EMG203A Kupferhammer, Tonnenform /
 Copper Hammer, Drum Type**


Artikel / Article	Size (lb)	L (mm)	(g)
EMG203A-1002	1/2	280	230
EMG203A-1004	1	310	450
EMG203A-1006	1-1/2	340	680
EMG203A-1008	2	350	910
EMG203A-1010	3	400	1400
EMG203A-1012	4	400	1800
EMG203A-1014	5	400	2250
EMG203A-1016	6	900	2700
EMG203A-1018	8	900	3600
EMG203A-1020	10	900	4500

**EMG107B Messinghammer, flach (Euro-
 Version) / Brass Flat Hammer (Euro Type)**


Artikel / Article	Size (lb)	L (mm)	(g)
EMG107B-1002	1	350	450
EMG107B-1004	2	400	910
EMG107B-1006	3	400	1400
EMG107B-1008	5	450	2250
EMG107B-1010	6	900	2700
EMG107B-1012	8	900	4500
EMG107B-1014	10	900	5400
EMG107B-1016	15	900	7650

**EMG201B Kupfer-Fäustel /
 Copper Hammer, Sledge**


Artikel / Article	Size (lb)	L (mm)	(g)
EMG201B-1002	1	350	450
EMG201B-1004	2	400	910
EMG201B-1006	3	400	1400
EMG201B-1008	4	450	1800
EMG201B-1010	5	450	2250
EMG201B-1012	6	900	2700
EMG201B-1014	8	900	3600
EMG201B-1016	10	900	4500
EMG201B-1018	12	900	5400
EMG201B-1020	14	900	6400
EMG201B-1022	16	900	7200
EMG201B-1024	20	900	9000

**EMG203B Kupferhammer, Tonnenform /
Copper Hammer, Drum Type**



Artikel / Article	Size (lb)	L (mm)	(g)
EMG203B-1002	1/2	280	230
EMG203B-1004	1	310	450
EMG203B-1006	1-1/2	340	680
EMG203B-1008	2	350	910
EMG203B-1010	3	400	1400
EMG203B-1012	4	400	1800
EMG203B-1014	5	400	2250
EMG203B-1016	6	900	2700
EMG203B-1018	8	900	3600
EMG203B-1020	10	900	4500

**EMG202B Kupferhammer, Mallet /
Copper Hammer, Mallet**



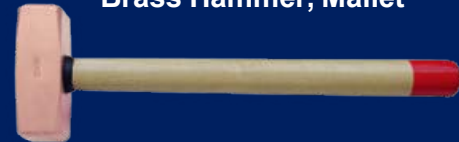
Artikel / Article	Size (lb)	L (mm)	(g)
EMG202B-1002	1	350	450
EMG202B-1004	2	400	910
EMG202B-1006	3	400	1400
EMG202B-1008	5	450	2250
EMG202B-1010	6	800	2700
EMG202B-1012	8	900	4500
EMG202B-1014	10	900	5400
EMG202B-1016	15	900	7650

**EMG202A Kupferhammer, Mallet /
Copper Hammer, Mallet**



Artikel / Article	Size (lb)	L (mm)	(g)
EMG202A-1002	1	350	450
EMG202A-1004	2	400	910
EMG202A-1006	3	400	1400
EMG202A-1008	5	450	2250
EMG202A-1010	6	800	2700
EMG202A-1012	8	900	4500
EMG202A-1014	10	900	5400
EMG202A-1016	15	900	7650

**EMG404B Messinghammer, Mallet /
Brass Hammer, Mallet**



Artikel / Article	Size (lb)	L (mm)	(g)
EMG204B-1002	500	350	500
EMG204B-1004	1000	400	1000
EMG204B-1006	1500	400	1500
EMG204B-1008	1800	400	1800
EMG204B-1010	2000	400	2000
EMG204B-1012	2700	900	2700
EMG204B-1014	3600	900	3600
EMG204B-1016	4000	900	4000
EMG204B-1018	5000	900	5000

**EMG204A Messinghammer, Mallet /
Brass Hammer, Mallet**



Artikel / Article	Size (lb)	L (mm)	(g)
EMG204A-1002	500	350	500
EMG204A-1004	1000	400	1000
EMG204A-1006	1500	400	1500
EMG204A-1008	1800	400	1800
EMG204A-1010	2000	400	2000
EMG204A-1012	2700	900	2700
EMG204A-1014	3600	900	3600
EMG204A-1016	4000	900	4000
EMG204A-1018	5000	900	5000

**EMG205B Kupfer-Ausbeul- Kugelhammer /
Copper Hammer, Ball Pein**



Artikel / Article	Size (lb)	L (mm)	(g)
EMG205B-1002	1/2	280	230
EMG205B-1004	3/4	280	340
EMG205B-1006	1	280	450
EMG205B-1008	1-1/2	310	680
EMG205B-1010	2	340	910
EMG205B-1012	2-1/2	350	1130

**EMG205A Kupfer-Ausbeul- Kugelhammer /
Copper Hammer, Ball Pein**



Artikel / Article	Size (lb)	L (mm)	G (g)
EMG205A-1002	1/2	280	230
EMG205A-1004	3/4	280	340
EMG205A-1006	1	280	450
EMG205A-1008	1-1/2	310	680
EMG205A-1010	2	340	910
EMG205A-1012	2-1/2	350	1130

**EMG606A Kupferhammer, 2-seitig /
Copper Hammer, Double face**



Artikel / Article	Size (lb)	L (mm)	(g)
EMG206A-1002	500	350	500
EMG206A-1004	1000	400	1000
EMG206A-1006	2000	400	2000
EMG206A-1008	3000	900	3000
EMG206A-1010	5000	900	5000

EMG207A Kupferhammer, flach (Euro Typ) / Copper Flat Hammer (Euro Type)



Artikel / Article	Size (lb)	L (mm)	(g)
EMG207A-1002	1	350	450
EMG207A-1004	2	400	910
EMG207A-1006	3	400	1400
EMG207A-1008	5	450	2250
EMG207A-1010	6	900	2700
EMG207A-1012	8	900	4500
EMG207A-1014	10	900	5400
EMG207A-1016	15	900	7650

EMG208B Kupferhammer, Entrostung / Copper Hammer, Scaling



Artikel / Article	Size (lb)	L (mm)	(g)
EMG208B-1002	150	330	205
EMG208B-1004	300	350	370

EMG208A Kupferhammer, Entrostung / Copper Hammer, Scaling



Artikel / Article	Size (lb)	L (mm)	(g)
EMG208A-1002	150	330	205
EMG208A-1004	300	350	370

EMG206B Kupferhammer, 2-seitig / Copper Hammer, Double face



Artikel / Article	Size (lb)	L (mm)	(g)
EMG206B-1002	500	350	500
EMG206B-1004	1000	400	1000
EMG206B-1006	2000	400	2000
EMG206B-1008	3000	900	3000
EMG206B-1010	5000	900	5000

EMG207B Kupferhammer, flach (Euro Typ) / Copper Flat Hammer (Euro Type)



Artikel / Article	Size (lb)	L (mm)	(g)
EMG207B-1002	1	350	450
EMG207B-1004	2	400	910
EMG207B-1006	3	400	1400
EMG207B-1008	5	450	2250
EMG207B-1010	6	900	2700
EMG207B-1012	8	900	4500
EMG207B-1014	10	900	5400
EMG207B-1016	15	900	7650

Diese Seite bleibt aus technischen Gründen leer.

VDE funkenfrei / non-sparking

Berylliumkupfer-Werkzeug für Elektriker

Beryllium-copper tools for electricians





EME101, Schlitzschraubendreher, gespritzt / Injection Slotted Screwdriver

Artikelnummer / Article-Number	Größe / Specification	L1 inch	L1 mm	L mm	H mm	B mm	G g
EME101-1002	50*3mm	2	50	134	0,5	3	35
EME101-1004	50*4.5mm	2	50	134	1	4,5	43
EME101-1006	75*3mm	3	75	159	0,6	3	35
EME101-1008	75*4mm	3	75	159	0,8	4	45
EME101-1010	75*5mm	3	75	180	1	5	70
EME101-1012	100*4mm	4	100	184	0,8	4	45
EME101-1014	100*5mm	4	100	205	1	5	75
EME101-1016	100*6mm	4	100	215	1,1	6	85
EME101-1018	125*6mm	5	125	240	1,1	6	100
EME101-1020	150*6mm	6	150	265	1,1	6	110
EME101-1022	150*7mm	6	150	265	1,2	7	125
EME101-1024	150*8mm	6	150	277	1,2	8	140
EME101-1026	200*8mm	8	200	327	1,2	8	165
EME101-1028	250*9mm	10	250	377	1,6	9	185



EME102, Kreuzschlitzschraubendreher / Injection Phillips Screwdriver

Artikelnummer / Article-Number	Größe / Specification	L1 inch	size PH	L1 mm	L mm	Ø mm	G g
EME102-1002	50mm	2	0	50	134	3	35
EME102-1004	75mm	3	1	79	159	4	70
EME102-1006	100mm	4	1	100	205	5	75
EME102-1008	125mm	5	2	125	240	6	100
EME102-1010	150mm	6	2	150	265	6	110
EME102-1012	200mm	8	3	200	327	8	165
EME102-1014	250mm	10	3	250	377	8	185



EME201, Kombizange, gespritzt / Injection Pliers, Lineman

Artikelnummer / Article-Number	Größe / Specification	L inch	L mm	G g
EME201-1002	6"	6	150	180
EME201-1004	7"	7	175	355
EME201-1006	8"	8	200	465



EME201A, Kombizange, gespritzt / Dipped Pliers, Lineman

Artikelnummer / Article-Number	Größe / Specification	L inch	L mm	G g
EME201A-1002	6"	6	150	180
EME201A-1004	7"	7	175	355
EME201A-1006	8"	8	200	465



EME202, Spitzzange, gespritzt / Injection Pliers, Snipe Nose

Artikelnummer / Article-Number	Größe / Specification	L inch	L mm	L1 mm	G g
EME202-1002	6"	6	150	54	190
EME202-1004	8"	8	200	74	335



EME202A, Spitzzange, getaucht / Dipped Pliers, Snipe Nose

Artikelnummer / Article-Number	Größe / Specification	L inch	L mm	L1 mm	G g
EME202A-1002	6"	6	150	54	190
EME202A-1004	8"	8	200	74	335



EME203, Seitenschneider, gespritzt / Injection Pliers, Diagonal Cutting

Artikelnummer / Article-Number	Größe / Specification	L inch	L mm	G g
EME203-1002	6"	6	150	245
EME203-1004	8"	8	200	410



EME203A, Seitenschneider, gespritzt / Dipped Pliers, Diagonal Cutting

Artikelnummer / Article-Number	Größe / Specification	L inch	L mm	G g
EME203A-1002	6"	6	150	245
EME203A-1004	8"	8	200	410



EME204, Spitzzange 45° gebogen, gespritzt / Injection Pliers, Round 45 Degree Bent

Artikelnummer /	Größe /	L	L	G
Article-Number	Specification	inch	mm	g
EME204-1002	6"	6	150	190



EME204A, Spitzzange 45° gebogen, getaucht / Dipped Pliers, Round 45 Degree Bent

Artikelnummer /	Größe /	L	L	G
Article-Number	Specification	inch	mm	g
EME204A-1002	6"	6	150	190



EME205, Flachzange, gespritzt / Injection Pliers, Flat Nose

Artikelnummer /	Größe /	L	L	G
Article-Number	Specification	inch	mm	g
EME205-1002	6"	6	150	165
EME205-1004	8"	8	200	281



EME205A, Flachzange, gespritzt / Dipped Pliers, Flat Nose

Artikelnummer /	Größe /	L	L	G
Article-Number	Specification	inch	mm	g
EME205A-1002	6"	6	150	165
EME205A-1004	8"	8	200	281



EME206, Rundzange, gespritzt / Injection Pliers, Round Nose

Artikelnummer /	Größe /	L	L	G
Article-Number	Specification	inch	mm	g
EME206-1002	6"	6	150	165



EME206A, Rundzange, getaucht / Dipped Pliers, Round Nose

Artikelnummer /	Größe /	L	L	G
Article-Number	Specification	inch	mm	g
EME206A-1002	6"	6	150	165



EME207, Abisolierzange, gespritzt / Injection Wire Stripping Pliers

Artikelnummer /	Größe /	L	G
Article-Number	Specification	mm	g
EME207-1002	170mm	170	225



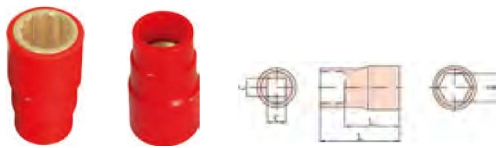
EME207A, Abisolierzange, getaucht / Dipped Wire Stripping Pliers

Artikelnummer /	Größe /	L	G
Article-Number	Specification	mm	g
EME207A-1002	170mm	170	225



EME208, Waserpumpenzange, getaucht / Dipped Pliers, Slip Joint

Artikelnummer /	Größe /	L	L	K max	G
Article-Number	Specification	inch	mm	mm	g
EME208-1002	6"	10	250	32	365

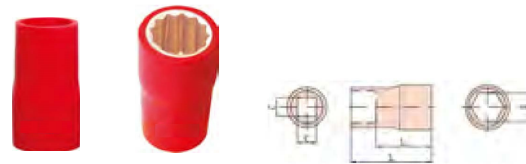


EME301, Steckschlüssel, gespritzt / Injection Socket (C=3/8"

Artikelnummer / Article-Number	Größe / Specification	S inch	L1 mm	L mm	G mm
EME301-8	8mm	8	28	44	35
EME301-9	9mm	9	28	44	35
EME301-10	10mm	10	32	48	50
EME301-11	11mm	11	32	48	50
EME301-12	12mm	12	32	48	50
EME301-13	13mm	13	32	48	50
EME301-14	14mm	14	32	48	50
EME301-15	15mm	15	32	48	53
EME301-16	16mm	16	32	48	58
EME301-17	17mm	17	32	48	63
EME301-19	19mm	19	32	48	68
EME301-20	20mm	20	32	48	77

EME301A, Steckschlüssel, getaucht / Dipped Socket (C=3/8"

Artikelnummer / Article-Number	Größe / Specification	S inch	L1 mm	L mm	G mm
EME301A-8	8mm	8	28	44	35
EME301A-9	9mm	9	28	44	35
EME301A-10	10mm	10	32	48	50
EME301A-11	11mm	11	32	48	50
EME301A-12	12mm	12	32	48	50
EME301A-13	13mm	13	32	48	50
EME301A-14	14mm	14	32	48	50
EME301A-15	15mm	15	32	48	53
EME301A-16	16mm	16	32	48	58
EME301A-17	17mm	17	32	48	63
EME301A-19	19mm	19	32	48	68
EME301A-20	20mm	20	32	48	77



EME302, Steckschlüssel, gespritzt / Injection Socket (C=1/2"

Artikelnummer / Article-Number	Größe / Specification	S inch	L1 mm	L mm	G mm
EME302-10	10mm	10	40	56	78
EME302-11	11mm	11	40	56	79
EME302-12	12mm	12	40	56	79
EME302-13	13mm	13	40	56	80
EME302-14	14mm	14	40	56	80
EME302-15	15mm	15	40	56	94
EME302-16	16mm	16	40	56	94
EME302-17	17mm	17	40	56	94
EME302-18	18mm	18	42	58	94
EME302-19	19mm	19	42	58	110
EME302-20	20mm	20	42	58	120
EME302-21	21mm	21	43	59	125
EME302-22	22mm	22	43	59	130
EME302-23	23mm	23	43	59	150
EME302-24	24mm	24	43	59	165
EME302-25	25mm	25	43	59	180
EME302-26	26mm	26	43	59	200
EME302-27	27mm	27	46	62	215
EME302-28	28mm	28	46	62	225
EME302-29	29mm	29	46	62	235
EME302-30	30mm	30	46	62	250
EME302-32	32mm	32	46	62	295

EME302A, Steckschlüssel, getaucht / Dipped Socket (C=1/2"

Artikelnummer / Article-Number	Größe / Specification	S inch	L1 mm	L mm	G mm
EME302A-10	10mm	10	40	56	78
EME302A-11	11mm	11	40	56	79
EME302A-12	12mm	12	40	56	79
EME302A-13	13mm	13	40	56	80
EME302A-14	14mm	14	40	56	80
EME302A-15	15mm	15	40	56	94
EME302A-16	16mm	16	40	56	94
EME302A-17	17mm	17	40	56	94
EME302A-18	18mm	18	42	58	94
EME302A-19	19mm	19	42	58	110
EME302A-20	20mm	20	42	58	120
EME302A-21	21mm	21	43	59	125
EME302A-22	22mm	22	43	59	130
EME302A-23	23mm	23	43	59	150
EME302A-24	24mm	24	43	59	165
EME302A-25	25mm	25	43	59	180
EME302A-26	26mm	26	43	59	200
EME302A-27	27mm	27	46	62	215
EME302A-28	28mm	28	46	62	225
EME302A-29	29mm	29	46	62	235
EME302A-30	30mm	30	46	62	250
EME302A-32	32mm	32	46	62	295



EME303, T-Griff, gespritzt / Injection T Type Wrench

Artikelnummer / Article-Number	Größe / Specification	C inch	L mm	H mm	G mm
EME303-1002	3/8"	3/8"	140	200	360
EME303-1004	1/2"	1/2"	140	200	360



EME303A, T-Griff, getaucht / Dipped Sliding T Type Wrench

Artikelnummer / Article-Number	Größe / Specification	C inch	L mm	H mm	G mm
EME303A-1002	3/8"	3/8"	140	200	370
EME303A-1004	1/2"	1/2"	140	200	465

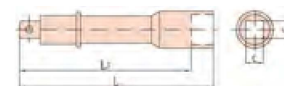


EME305, T-Griff, getaucht / Dipped T Handle

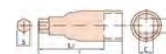
Artikelnummer / Article-Number	Größe / Specification	C inch	L mm	H mm	G mm
EME305-1002	1/2"*250mm	3/8"	250	39	340
EME305-1004	3/8"*160mm	1/2"	160	37	135


EME306, T-Steckschlüssel, getaucht / Dipped T Type Wrench

Artikelnummer / Article-Number	Größe / Specification	S mm	L mm	H mm	G g
EME306-7	7mm	7	120	120	100
EME306-9	9mm	9	130	130	155
EME306-11	11mm	11	140	150	190
EME306-14	14mm	14	150	170	265
EME306-17	17mm	17	170	190	410
EME306-19	19mm	19	180	210	535


EME304, Verlängerung, getaucht / Dipped Driver Extension

Artikelnummer / Article-Number	Größe / Specification	C inch	L1 mm	L mm	G g
EME304-1002	3/8"*75mm	3/8"	75	91	93
EME304-1004	3/8"*150mm	3/8"	150	166	185
EME304-1006	1/2"*125mm	1/2"	125	141	260
EME304-1008	1/2"*250mm	1/2"	250	266	470


EME308, Innensechskantschlüssel, getaucht / Dipped Internal Hexagon Socket

Artikelnummer / Article-Number	Größe / Specification	C inch	S mm	L1 mm	L mm	G g
EME308-3	3mm			3	55	71
EME308-4	4mm			4	55	71
EME308-5	5mm			5	55	71
EME308-6	6mm	1/4"		6	55	71
EME308-7	7mm			7	55	71
EME308-8	8mm			8	65	81
EME308-9	9mm			9	65	81
EME308-10	10mm			10	65	81


EME307, Griff, versetzt, getaucht / Dipped Offset Handle

Artikelnummer / Article-Number	Größe / Specification	C inch	L mm	H mm	G g
EME307-1002	3/8"	3/8"	200	50	314
EME307-1004	1/2"	1/2"	230	60	410


EME401, Einmaulschlüssel, gespritzt / Injection Wrench, Single Open End

Artikelnummer / Article-Number	Größe / Specification	S mm	L mm	G g
EME401-8	8mm	8	95	40
EME401-10	10mm	10	105	50
EME401-11	11mm	11	115	58
EME401-12	12mm	12	125	65
EME401-13	13mm	13	132	85
EME401-14	14mm	14	140	95
EME401-17	17mm	17	160	105
EME401-19	19mm	19	170	130
EME401-22	22mm	22	195	170
EME401-24	24mm	24	220	190
EME401-27	27mm	27	240	285
EME401-30	30mm	30	260	320
EME401-32	32mm	32	275	400


EME401A, Einmaulschlüssel, getaucht / Dipped Wrench, Single Open End

Artikelnummer / Article-Number	Größe / Specification	S mm	L mm	G g
EME401A-8	8mm	8	95	40
EME401A-10	10mm	10	105	50
EME401A-11	11mm	11	115	58
EME401A-12	12mm	12	125	65
EME401A-13	13mm	13	132	85
EME401A-14	14mm	14	140	95
EME401A-17	17mm	17	160	105
EME401A-19	19mm	19	170	130
EME401A-22	22mm	22	195	170
EME401A-24	24mm	24	220	190
EME401A-27	27mm	27	240	285
EME401A-30	30mm	30	260	320
EME401A-32	32mm	32	275	400



EME402, Rollgabelschlüssel, gespritzt / Injection Wrench, Adjustable

Artikelnummer / Article-Number	Größe / Specification	L mm	K max mm	G g
EME402-1002	18*150mm	150	18	135
EME402-1004	24*200mm	200	24	281
EME402-1006	30*250mm	250	30	440
EME402-1008	36*300mm	300	36	720



EME402A, Rollgabelschlüssel, getaucht / Dipped Wrench, Adjustable

Artikelnummer / Article-Number	Größe / Specification	L mm	K max mm	G g
EME402A-1002	18*150mm	150	18	135
EME402A-1004	24*200mm	200	24	281
EME402A-1006	30*250mm	250	30	440
EME402A-1008	36*300mm	300	36	720



EME403, Ringschlüssel, getaucht / Dipped Wrench, Single Box

Artikelnummer / Article-Number	Größe / Specification	S mm	L mm	G g
EME403-8	8mm	8	110	40
EME403-10	10mm	10	120	50
EME403-12	12mm	12	130	65
EME403-14	14mm	14	140	90
EME403-17	17mm	17	155	105
EME403-19	19mm	19	170	130
EME403-22	22mm	22	190	175
EME403-24	24mm	24	215	22
EME403-27	27mm	27	230	270
EME403-30	30mm	30	255	370
EME403-32	32mm	32	265	425



EME404, Ringschlüssel, gekröpft, getaucht / Dipped Wrench, Single Box Offset

Artikelnummer / Article-Number	Größe / Specification	S mm	L mm	G g
EME404-10	10mm	3	59	8
EME404-12	12mm	4	65	10
EME404-14	14mm	5	79	16
EME404-17	17mm	6	85	25
EME404-19	19mm	7	88	34
EME404-22	22mm	8	92	50
EME404-24	24mm	9	97	61
EME404-27	27mm	10	110	82
EME404-30	30mm	11	119	100
EME404-32	32mm	12	130	145



EME405, Innensechskantschlüssel, getaucht / Dipped Wrench, Hex Key

Artikelnummer / Article-Number	Größe / Specification	S mm	L mm	H mm	G g
EME405-3	3mm	3	59	25	8
EME405-4	4mm	4	65	30	10
EME405-5	5mm	5	79	32	16
EME405-6	6mm	6	85	37	25
EME405-7	7mm	7	88	43	34
EME405-8	8mm	8	92	44	50
EME405-9	9mm	9	97	44	61
EME405-10	10mm	10	110	45	82
EME405-11	11mm	11	119	48	100
EME405-12	12mm	12	130	52	145



EME406, Ratschenschlüssel, getaucht / Dipped Ratchet Wrench

Artikelnummer / Article-Number	Größe / Specification	S1 mm	S2 mm	L mm	G g
EME406-1417	14*17mm	14	17	280	410
EME406-1719	17*19mm	17	19	310	450
EME406-1922	19*22mm	19	22	345	530
EME406-2224	22*24mm	22	24	365	680

Teil II / Part II

Titaniumwerkzeug / Titanium-tools



MR Conditional / paramagnetisch

- 100% unmagnetisch / antimagnetisch
- Bis zu 60% leichter als Stahl
- Rostfrei und beständig gegen Korrosion
- Extrem stabil und haltbar
- Hautfreundlich
- 100% non-magnetic
- Up to 60% lighter than steel
- Rustproof and corrosion resistant
- Extremely strong and durable
- Eudermic

Titan-Werkzeuge von EMAREI werden in Ti 6Al-4V Legierung gefertigt. Es bietet als eins der kräftigsten Metalle außergewöhnliche Qualitäten an:

- 100 Prozent unmagnetisch/paramagnetisch
- Extrem stabil
- Korrosionsbeständig
- Hypo-allergen
- 42% leichter als Stahl

Mechanische Daten:

- Bruchfestigkeit / Ultimate strength: $\sigma_s = 834-987 \text{ MPa}$
- Fließgrenze / Yield limit: $\sigma_{0,2} = 735 \text{ MPa}$
- Proportionalitätsgrenze / Proportional limit: $\sigma_p = 637 \text{ MPa}$
- Dauerfestigkeit / Fatigue Limit: $\sigma_{-1} = 520 \text{ MPa}$
- Duktilität / Ductility: $\delta = 10\%$
- Brucheinschnürung / Reduction of Area: $\Psi = 25$
- Schlagzähigkeit / Impact Toughness: $a_H = 0.4 \text{ MJ/M}^2$

Chemische Komponenten, Hauptbestandteile [%]:

- Ti - Komplett mit Bestandteilen von
- Al: 5.5-6,8 %
- Sn: NA
- Mo: NA
- V: 3,5-4,5 %
- Nb: NA

Bestandteil von Verunreinigungen weniger als:

- Fe: 0,4 %
- Si: 0,15 %
- C: 0,1 %
- N: 0,05 %
- H: 0,015 %
- O: 0,25 %

Anwendungsgebiete:

- Wartung von MRT's
- Aeronautik, Militär und Raumfahrt
- Intensive Magnetfelder
- Chemie-, Pharma- und Nahrungsmittelindustrie

Das geringe Gewicht der Titan-Werkzeuge erlaubt einen weniger ermüdenden Gebrauch und ist widerstandsfähiger als Stahl. Die Ti 6Al4V Legierung ist sehr korrosionsbeständig gegen salzige und saure Umgebungen und Flüssigkeiten. Titan ist hypo-allergen und eignet sich damit ideal für Menschen mit empfindlicher Haut

EMAREI titanium tools are manufactured in alloy Ti 6Al-4V. as one of the strongest metals. It offers exceptional qualities:

- 100 percent non-magnetic / paramagnetic
- Extremely stable
- corrosion resistant
- Hypo-allergenic
- 42% lighter than steel

Mechanical specifications:

- Breaking strength / Ultimate strength: $\sigma_s = 834-987 \text{ MPa}$
- Yield strength / Yield limit: $\sigma_{0.2} = 735 \text{ MPa}$
- Proportionality / Proportional limit: $\sigma_p = 637 \text{ MPa}$
- Fatigue / fatigue limit: $\sigma_{-1} = 520 \text{ MPa}$
- Ductility / Ductility: $\delta = 10\%$
- Necking / Reduction of Area: $\Psi = 25$
- Impact / Impact Toughness: $a_H = 0.4 \text{ MJ/M}^2$

Chemical components:

Main components / Main components [%]:

- Ti - complete with ingredients of
- Al: 5.5-6,8%
- Sn: NA
- Mo: NA
- V: 3.5-4.5%
- Nb: NA

Part of impurities less than [%]

- Fe: 0.4%
- Si: 0.15%
- C: 0.1%
- N: 0.05%
- H: 0.015%
- O: 0.25%

Application areas

- Maintenance of MRI's
- Aeronautics, military and space
- Intense magnetic fields
- Chemical, pharmaceutical and food industry

The low weight of titanium tools allows a less tiring use and is more resistant than steel. The Ti 6Al4V alloy is highly corrosion resistant salty and acid environments and fluids. Titanium is hypo-allergenic and thus is ideal for people with sensitive skin.

7.8.2016 Ergebnis der Tests von MRT-Werkzeugen:

Titan Werkzeug-Test von EMAREI Titan-Werkzeugen durchgeführt am 7. August 2016 an der University of Southern California Hospital, Los Angeles, CA mit einem 3-Tesla MR system (General Electric Healthcare, Milwaukee, WI):

Die nicht-klinischen Tests haben gezeigt, dass die Doppel-Maulschlüssel-SCHLÜSSEL 30/32-mm, Titan und Berylliumkupfer bedingt MR sicher (MR Conditional) sind und daher den folgenden Bedingungen entsprechend in der MRT-Umgebung eingesetzt werden können:

- Statisches Magnetfeld von 3 Tesla oder weniger
- Maximale räumliche Gradienten-Magnetfeld von 720 Gauss / cm

WICHTIGER HINWEIS: Dieses Produkt ist für den Einsatz in der MRT / Magnetresonanztomographie-Umgebung vorgesehen (zum Beispiel im MR-System-Raum). Es ist jedoch nicht dafür bestimmt, direkt innerhalb des MR-Systems (beispielsweise innerhalb der Bohrung des Scanners), während des Betriebs des Scanners (d.h. während eines MRT-Scanners) angewendet zu werden. Daher wurden bei dieser Beurteilung lediglich die entstehenden translatorischen Kräfte in Relation zum Magnetfeld in einem 3-Tesla-System betrachtet.

HINWEIS: Die oben genannten Informationen gelten für alle Werkzeuge aus dem gleichen Material, die kleiner sind in Ihrer Größe/Abmessungen.

EMAREI Titanium Tool Test, report dated August 7, 2016

Titanium and Beryllium Copper Tools Test of EMAREI titanium tools conducted on August 7, 2016 at University of Southern California Hospital, Los Angeles, CA with a 3-Tesla MR system (General Electric Healthcare, Milwaukee, WI):

Non-clinical testing demonstrated that the DOUBLE OPEN-END WRENCH, 30/32-mm, Titanium and Beryllium Copper is MR Conditional and can be used in the MRI environment according to the following conditions:

- Static magnetic field of 3-Tesla or less
- Maximum spatial gradient magnetic field of 720-Gauss/cm

IMPORTANT NOTE: This product is intended for use inside of the magnetic resonance imaging (MRI) environment (e.g., in the MR system room). However, it is not intended for use directly inside of the MR system (e.g., inside of the bore of the scanner), during the operation of the scanner (i.e., during an MRI procedure). As such, the assessment of MRI issues for this product entailed an assessment of translational attraction in relation to exposure to a 3-Tesla MR system, only.

NOTE: The above information applies to all tools made from the same material that are smaller in size/dimensions.

Beispiel / Example

Artikel / Article EAI0557

MR-conditional
Titan-Werkzeugkoffer 18
Teile / titanium tool set
18 pieces



Beispiel / Example

Artikel / Article EAI0556

MR-conditional
Titan-Werkzeugkoffer 24
Teile / titanium tool set
18 pieces

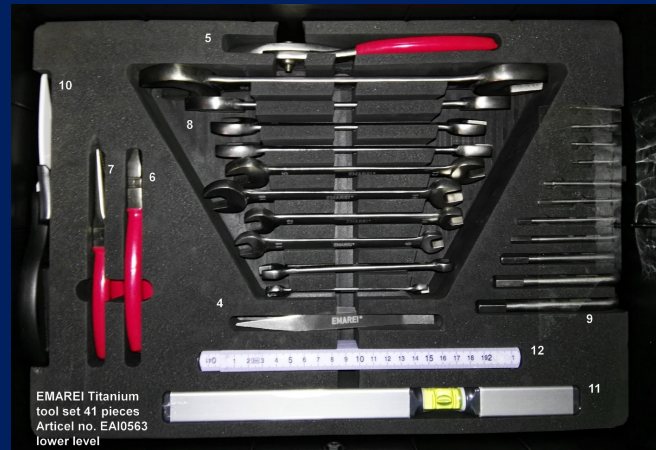
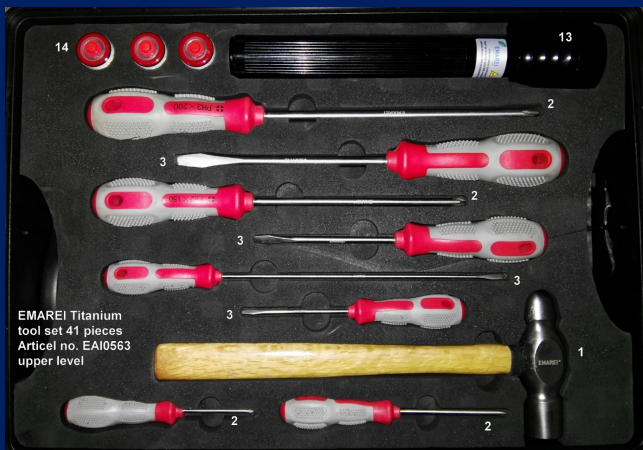
Beispiel / Example

Artikel / Article EAI0500

MR-conditional
Titan-Werkzeugkoffer 34
Teile / titanium tool set
34 pieces



Beispiel / Example : Artikel / Article EAI563
MR-conditional, Titan Werkzeugkoffer 41 Teile / titanium tool set 41pieces



Verstellbare Schlüssel / Wrench, Adjustable



Artikel-Nr. / Article-no.	L [mm]	Kmax [mm]	Gewicht / Weight [g]
EAT101-1002	150	18	80
EAT101-1004	200	24	170
EAT101-1006	250	30	260
EAT101-1008	300	36	435

Ringmaulschlüssel / Wrench, Combination

IN ÜBEREINSTIMMUNG MIT / IN ACCORDANCE WITH DIN 3113



Artikel-Nr. / Article-no.	S [mm]	L [mm]	Gewicht / Weight [g]
EAT103-6	6	105	13
EAT103-8	8	120	20
EAT103-10	10	135	30
EAT103-12	12	150	40
EAT103-14	14	175	55
EAT103-17	17	195	90
EAT103-19	19	215	125
EAT103-22	22	245	170
EAT103-24	24	265	200
EAT103-27	27	290	280
EAT103-30	30	320	400
EAT103-32	32	340	480

Rohrschlüssel / Wrench, Pipe (American Type)



Artikel-Nr. / Article-no.	L [mm]	Kmax [mm]	Gewicht / Weight [g]
EAT102-1002	200	25	310
EAT102-1004	250	30	520
EAT102-1006	300	40	790
EAT102-1008	350	50	950

Montageschlüssel / Wrench, Construction with Pin



Artikel-Nr. / Article-no.	S [mm]	L [mm]	Gewicht / Weight [g]
EAT104-17	17	220	60
EAT104-19	19	240	80
EAT104-22	22	260	120
EAT104-24	24	280	145
EAT104-27	27	300	200
EAT104-30	30	320	235

Maulschlüssel / Wrench, Single Open End



Artikel-Nr. / Article-no.	S [mm]	L [mm]	Gewicht / Weight [g]
EAT105-6	6	75	11
EAT105-8	8	95	14
EAT105-10	10	105	19
EAT105-12	12	125	25
EAT105-14	14	140	35
EAT105-17	17	160	50
EAT105-19	19	170	60
EAT105-22	22	195	95
EAT105-24	24	220	120
EAT105-27	27	240	170
EAT105-30	30	260	220
EAT105-32	32	260	260
EAT105-36	36	310	350

Doppelmaulschlüssel / Wrench, Double Open End

In Übereinstimmung mit / in accordance with DIN 3110



Artikel-Nr. / Article-no.	S1*S2 [mm]	L [mm]	Gewicht / Weight [g]
EAT107-0607	6*7	120	13
EAT107-0709	7*9	135	20
EAT107-0810	8*10	145	25
EAT107-1012	10*12	165	40
EAT107-1214	12*14	180	55
EAT107-1417	14*17	195	70
EAT107-1719	17*19	210	95
EAT107-1922	19*22	225	130
EAT107-2224	22*24	250	170
EAT107-2427	24*27	250	230
EAT107-2730	27*30	270	310
EAT107-3032	30*32	310	430

Schlagmaulschlüssel / Wrench, Striking Open

I In Übereinstimmung mit / in accordance with DIN 133



Artikel-Nr. / Article-no.	S [mm]	L [mm]	Gewicht / Weight [g]
EAT106-17	17	125	85
EAT106-19	19	125	80
EAT106-22	22	135	95
EAT106-24	24	150	135
EAT106-27	27	175	230
EAT106-30	30	190	260
EAT106-32	32	190	260
EAT106-36	36	200	370

Gekröpfter Doppelringschlüssel / Wrench, Double Box Offset

In Übereinstimmung mit / In accordance with DIN 838



Artikel-Nr. / Article-no.	S1*S2 [mm]	L [mm]	Gewicht / Weight [g]
EAT108-0810	8*10	190	40
EAT108-1012	10*12	200	48
EAT108-1214	12*14	220	58
EAT108-1417	14*17	255	85
EAT108-1719	17*19	280	100
EAT108-1922	19*22	300	115
EAT108-2224	22*24	330	232
EAT108-2427	24*27	340	260
EAT108-2730	27*30	350	290
EAT108-3032	30*32	370	377

Flacher Doppelringschlüssel / Wrench, Double Flat Box

In Übereinstimmung mit / in accordance with 8378



Artikel-Nr. / Article-no.	S1*S2 [mm]	L [mm]	Gewicht / Weight [g]
EAT109-0709	7*9	115	15
EAT109-0810	8*10	115	15
EAT109-1012	10*12	140	24
EAT109-1214	12*14	145	30
EAT109-1417	14*17	165	50
EAT109-1719	17*19	185	60
EAT109-1922	19*22	200	95
EAT109-2224	22*24	215	105
EAT109-2427	24*27	255	145
EAT109-2730	27*30	280	185
EAT109-3032	30*32	295	220

Ringschlüssel / Wrench, Single Box



Artikel-Nr. / Article-no.	S [mm]	L [mm]	Gewicht / Weight [g]
EAT111-7	7	110	32
EAT111-8	8	110	30
EAT111-10	10	120	35
EAT111-12	12	130	42
EAT111-14	14	140	55
EAT111-17	17	155	65
EAT111-19	19	170	77
EAT111-22	22	190	115
EAT111-24	24	215	145
EAT111-27	27	230	160
EAT111-30	30	255	225
EAT111-32	32	265	255
EAT111-36	36	295	300

Montage-Ringschlüssel / Wrench, Construction



Artikel-Nr. / Article-no.	S [mm]	L [mm]	Gewicht / Weight [g]
EAT110-8	8	210	65
EAT110-10	10	230	70
EAT110-12	12	250	88
EAT110-14	14	270	105
EAT110-17	17	310	135
EAT110-19	19	330	165
EAT110-22	22	350	185
EAT110-24	24	370	260
EAT110-27	27	400	320
EAT110-30	30	430	380
EAT110-32	32	430	370
EAT110-36	36	460	525

Schlagringschlüssel / Wrench, Striking Box

- IN ÜBEREINSTIMMUNG MIT /
- IN ACCORDANCE WITH DIN 7444



Artikel-Nr. / Article-no.	S [mm]	L [mm]	Gewicht / Weight [g]
EAT112-17	17	145	85
EAT112-19	19	145	80
EAT112-22	22	155	135
EAT112-24	24	165	130
EAT112-27	27	175	175
EAT112-30	30	185	255
EAT112-32	32	185	245
EAT112-36	36	205	315

Gekröpfter Arbeitsringschlüssel /
 Offset Slogging Box Wrench (American Type)



Artikel-Nr. / Article-no.	S [mm]	L [mm]	Gewicht / Weight [g]
EAT113-19	19	220	400
EAT113-22	22	240	522
EAT113-24	24	240	522
EAT113-27	27	270	695
EAT113-30	30	280	815
EAT113-32	32	290	928

Inbusschlüssel mit Zapfen / Wrench, Hex Key With Ball



Artikel-Nr. / Article-no.	S [mm]	L [mm]	H [mm]	Gewicht / Weight [g]
EAT115-3	3	63	20	3
EAT115-4	4	70	25	7
EAT115-5	5	80	28	12
EAT115-6	6	90	32	17
EAT115-7	7	95	34	28
EAT115-8	8	100	36	32
EAT115-9	9	106	38	47
EAT115-10	10	112	40	55
EAT115-11	11	118	42	78
EAT115-12	12	125	45	90

Inbusschlüssel / Wrench, Hex Key



Artikel-Nr. / Article-no.	S [mm]	L [mm]	H [mm]	Gewicht / Weight [g]
EAT114-3	3	59	25	4
EAT114-4	4	65	30	8
EAT114-5	5	79	32	12
EAT114-6	6	85	37	15
EAT114-7	7	88	43	18
EAT114-8	8	92	44	24
EAT114-9	9	97	44	32
EAT114-10	10	110	45	42
EAT114-11	11	119	48	58
EAT114-12	12	130	52	76
EAT114-13	13	140	54	100
EAT114-14	14	150	58	115
EAT114-15	15	156	60	145
EAT114-16	16	162	63	170
EAT114-17	17	168	65	205

Sechskant Stiftschlüssel mit T-Form / Wrench, T-type Sliding Hex



Artikel-Nr. / Article-no.	S [mm]	L [mm]	H [mm]	Gewicht / Weight [g]
EAT116-8	8	150	100	140
EAT116-10	10	150	110	150
EAT116-12	12	170	130	160
EAT116-14	14	170	140	220
EAT116-17	17	190	150	255
EAT116-19	19	220	160	340

Steckschlüssel (3/4") / Impact Socket (3/4")

12-Kant, 12-point



Artikel-Nr. / Article-no.	S [mm]	L [mm]	Gewicht / Weight [g]
EAT302-17	17	50	210
EAT302-19	19	50	220
EAT302-22	22	50	230
EAT302-24	24	50	250
EAT302-27	27	50	265
EAT302-30	30	55	280
EAT302-32	32	55	300

Steckschlüssel (1/2") / Socket (1/2")

12-Kant, 12-point



Artikel-Nr. / Article-no.	S [mm]	L [mm]	Gewicht / Weight [g]
EAT301-6	6	40	46
EAT301-8	8	40	47
EAT301-10	10	40	48
EAT301-12	12	40	50
EAT301-14	14	40	52
EAT301-17	17	40	55
EAT301-19	19	42	60
EAT301-22	22	43	65

Universalverbinder / Universal Joint

12-Kant, 12-point



Artikel-Nr. / Article-no.	S [mm]	L [mm]	Gewicht / Weight [g]
EAT303-1002	1/2	80	115
EAT303-1004	3/4	110	300

Klappbarer Griff / Hinged Handle



Artikel-Nr. / Article-no.	C [inch]	L [mm]	Gewicht / Weight [g]
EAT304-1002	3/8	190	138
EAT304-1004	1/2	250	210

Verstellbarer T-Steckschlüssel / Sliding T Type Wrench



Artikel-Nr. / Article-no.	S [mm]	L [mm]	Gewicht / Weight [g]
EAT306-6	6	120	80
EAT306-8	8	120	85
EAT306-10	10	130	90
EAT306-12	12	140	115
EAT306-14	14	150	145
EAT306-17	17	170	175
EAT306-19	19	180	300
EAT306-22	22	190	435

Knarrenschlüssel / Ratchet Wrench

In Übereinstimmung mit / in accordance with DIN 3122



Artikel-Nr. / Article-no.	C [inch]	L [mm]	Gewicht / Weight [g]
EAT305-1002	3/8	200	140
EAT305-1004	1/2	245	415
EAT305-1006	3/4	320	945

Lock Torque Wrench-Window Display



Artikel-Nr. / Article-no.	C [inch]	Torque Nm	L [mm]	Gewicht / Weight [g]
EAT504-1002	3/8	5-50	360	420
EAT504-1004	1/2	10-100	405	475
EAT504-1008	1/2	20-200	500	565
EAT504-1010	1/2	60-300	595	645
EAT504-1012	3/4	150-750	1040	2450
EAT504-1014	1	200-1000	1253	4350

Verlängerungen / Driver Extension



Artikel-Nr. / Article-no.	C [inch]	L [mm]	Gewicht / Weight [g]
EAT307-1002	3/8	75	55
EAT307-1004	1/2	125	145
EAT307-1006	1/2	250	290
EAT307-1008	3/4	200	520

L-förmiger Steckschlüssel / Wrench, Socket L-Type



Artikel-Nr. / Article-no.	S [mm]	L [mm]	H [mm]	Gewicht / Weight [g]
EAT308-6	6	120	29	55
EAT308-8	8	145	33	85
EAT308-10	10	168	37	110
EAT308-12	12	215	42	120
EAT308-14	14	245	45	165
EAT308-17	17	260	51	270
EAT308-19	19	270	55	310

Kreuzschlaghammer mit Kugel / Hammer, Ball Pein



Artikel-Nr. / Article-no.	Size [g]	L [mm]	Gewicht / Weight [g]
EAT701-1002	230	280	330
EAT701-1004	340	280	440
EAT701-1006	450	310	600
EAT701-1008	680	340	900

Klauenhammer / Hammer, Claw



Artikel-Nr. / Article-no.	Size [lb]	L [mm]	Gewicht / Weight [g]
EAT703-1002	3/4	280	520
EAT703-1004	1	310	660

Kreuzschlaghammer / Hammer, Cross Pein Engineers



Artikel-Nr. / Article-no.	Size [g]	L [mm]	Gewicht / Weight [g]
EAT702-1002	230	280	330
EAT702-1004	340	280	440
EAT702-1006	450	310	600
EAT702-1008	500	310	650
EAT702-1010	600	340	820

Verstellbare Zange /
Pliers, Adjustable Combination



Artikel-Nr. / Article-no.	L [mm]	K [mm]	Gewicht / Weight [g]
EAT201-1002	150	8	125
EAT201-1004	200	13	180
EAT201-1006	250	16	280

Kombizange / Pliers, Lineman



Artikel-Nr. / Article-no.	L [mm]	Gewicht / Weight [g]
EAT202-1002	150	220
EAT202-1004	200	290

Seitenschneider / Pliers, Diagonal Cutting



Artikel-Nr. / Article-no.	L [mm]	Gewicht / Weight [g]
EAT203-1002	150	180
EAT203-1004	200	260

Spitzzange / Pliers, Snipe Nose



Artikel-Nr. / Article-no.	L [mm]	Gewicht / Weight [g]
EAT204-1002	150	120
EAT204-1004	200	200

Rohrzange / Pliers, Groove Joint



Artikel-Nr. / Article-no.	L [mm]	K [mm]	Gewicht / Weight [g]
EAT205-1002	150	16	80
EAT205-1004	200	25	120
EAT205-1006	250	45	270

Wasserpumpenzange / Pliers, Water Pump



Artikel-Nr. / Article-no.	L [mm]	K [mm]	Gewicht / Weight [g]
EAT206-1002	150	16	75
EAT206-1004	200	25	100
EAT206-1006	250	32	220

Pinzette / Tweezers



Artikel-Nr. / Article-no.	L [mm]	Gewicht / Weight [g]
EAT207-1002	150	20
EAT207-1004	200	28

Spachtel / Knife, Putty, sharp



Artikel-Nr. / Article-no.	K [mm]	L [mm]	Gewicht / Weight [g]
EAT402-1002	25	200	65
EAT402-1004	40	200	80
EAT402-1006	50	200	90
EAT402-1008	65	200	100

Spachtel / Knife, Putty, round



Artikel-Nr. / Article-no.	K [mm]	L [mm]	Gewicht / Weight [g]
EAT403-1002	75	200	110
EAT403-1004	100	200	135
EAT403-1006	150	200	210

Spatel / Spatula



Artikel-Nr. / Article-no.	K [mm]	L [mm]	Gewicht / Weight [g]
EAT404-1002	30	195	65
EAT404-1004	50	210	80
EAT404-1006	75	225	95

Messer / Knife



Artikel-Nr. / Article-no.	K [mm]	L [mm]	Gewicht / Weight [g]
EAT401-1002	25	230	75
EAT401-1004	30	250	85
EAT401-1006	35	260	100

Schaber / Scraper



Artikel-Nr. / Article-no.	K [mm]	L [mm]	Gewicht / Weight [g]
EAT405-1002	30	200	165
EAT405-1004	30	300	255
EAT405-1006	35	350	325

Meißel / Chisel



Artikel-Nr. / Article-no.	B [mm]	Φ [mm]	L [mm]	Gewicht / Weight [g]
EAT406-1002	10	10	120	45
EAT406-1004	12	12	140	75
EAT406-1006	14	14	160	115
EAT406-1008	16	16	160	150
EAT406-1010	18	18	160	190
EAT406-1012	20	20	200	290
EAT406-1014	22	22	200	355

Brecheisen / Pinch Bar



Artikel-Nr. / Article-no.	B [mm]	Φ [mm]	L [mm]	Gewicht / Weight [g]
EAT407-1002	15	15	500	400
EAT407-1004	18	18	600	700
EAT407-1006	20	20	800	1100

Schlitzschraubendreher / Slotted Screwdriver





Artikel-Nr. / Article-no.	H [mm]	B [mm]	L [mm]	Gewicht / Weight [g]
EAT501-1002	0.4	3	50	30
EAT501-1004	0.5	4	75	40
EAT501-1006	0.6	5	100	53
EAT501-1008	0.8	6	150	85
EAT501-1010	1.2	8	200	135

Kreuzschlitzschraubendreher / Phillips Screwdriver




Artikel-Nr. / Article-no.	Size	Φ [mm]	L [mm]	Gewicht / Weight [g]
EAT502-1002	0	3	50	30
EAT502-1004	1	4	75	40
EAT502-1006	1	5	100	53
EAT502-1008	2	6	150	85
EAT502-1010	3	8	200	135


SCHUTZKLEIDUNG – PROTECT YOURSELF!

	Tragen Sie beim Arbeiten eine Schutzbrille (gegen Absplitterungen, Späne...)	Wear safety glasses to protect your eyes against splinters (grinding, drilling...).
	Tragen Sie Schutzhandschuhe gegen Fehlschläge und Abrutschen. Bei Arbeiten an elektrischen Anlagen sind speziell dafür vorgesehene Schutzhandschuhe zu tragen. (CE/89/686)	Wear gloves to protect you against blows, gashes and when using 1000 V insulated tools. (Use combined latex gloves and leather gloves (CE/89/686).)
	Verstauen Sie keine scharfen oder spitzen Werkzeuge in Ihren Taschen Meißel, Schraubendreher	Never put cutting tools in your pockets (sharpening or pointed tools: cold chisels-mason pointed chisel-screwdrivers, etc.

ELEKTRISCHE ANLAGEN – HIGH VOLTAGE ENVIRONMENT

	Benutzen Sie ausschließlich speziell isolierte Werkzeuge beim Arbeiten an elektrischen Anlagen. Arbeiten an elektrischen Anlagen dürfen nur von Fachleuten ausgeführt werden!	Use 1000V insulated tools when you work in a high voltage environment. Work on electrical installations may only be carried out by experts!
Bitte folgen sie grundsätzlich den folgenden 5 Sicherheitsregeln:		Please follow the following 5 safety rules:
<ol style="list-style-type: none"> 1. Freischalten 2. Gegen Wiedereinschalten sichern 3. Spannungsfreiheit feststellen 4. Erden und kurzschließen 5. Benachbarte, unter Spannung stehende Teile abdecken und abschränken 		<ol style="list-style-type: none"> 1. Isolate 2. Secure against restarting 3. Check the tension 4. Earthing and shooting 5. Cover adjacent and live parts

SICHERE HANDHABUNG! – SAFE HANDLING!

	Überprüfen Sie zuerst, ob das richtige Werkzeug für die Arbeit gewählt wurde, um Verletzungen zu vermeiden.	Check the position of your tools to avoid any injuries.
ARBEITSERGEBNISSE		THE APPROPRIATE TOOL FOR GOOD USE
Schlagen Sie nie mit Werkzeugen, die nicht dafür hergestellt wurden. Schleifen oder schweißen Sie nie selbst an Werkzeugen um Änderungen herbeizuführen. (Schlüssel, Schraubendreher, Hämmer...) Das Werkzeug kann dadurch die notwendige Werkstoffhärte verlieren. Benutzen Sie nie Verlängerungen, wenn das Werkzeug nicht dafür vorgesehen ist.		Use a tool designed for a specific use. Never strike with a tool if this is not designed for. Do not modify the dimensions and the technical characteristics by grinding or welding the products (wrenches, screwdrivers, hammers...): you may weaken them. Do not add any extension to the tool when this is not designed for.
ARBEIT SETZT RICHTIGES WERKZEUG VORAUS		PERFORMANT PROFESSIONALS HAVE ADAPTED TOOLS
Achten Sie stets auf die Sauberkeit der Werkzeuge, um Beschädigungen rechtzeitig zu erkennen.		Make sure your tools are always clean and in good condition.
Tauschen Sie das Werkzeug aus, wenn sich Beschädigungen zeigen oder die Abnutzungserscheinungen zu groß geworden sind.		Change your tools when damaged or worn out.
Reinigen Sie das Werkzeug nach der Arbeit, um auch zukünftig sichere Ergebnisse zu erzielen.		Tidy up and clean your tools for maximum security.

SCHRAUBENSCHLÜSSEL – WRENCHES

Schweißen oder schleifen Sie nicht an den Werkzeugen, um diese zu verändern. Benutzen Sie keine Verlängerungen zur Kraftverstärkung.	Do not grind and weld your wrenches to modify their aspect. Never add any extension to increase the torque.
Setzen Sie den Schlüssel komplett auf den Schraubbolzen. Ringschlüssel weisen eine bessere Kraftverteilung auf.	Do not work with the wrench extremities but adapt your wrench correctly on the nut. For powerful efforts, use a wring wrench.
Verwenden Sie grundsätzlich den richtigen Durchmesser.	Adapt your wrench according to the nut.
Benutzen Sie das passende Werkzeug.	Use appropriate tools.
Schlagen Sie nie auf normale Schraubenschlüssel. Benutzen Sie spezielle Schlagschlüssel für solche Arbeiten.	Never strike on a wrench when this is not designed for. Use slugging wrenches.
Ziehen Sie besser am Schraubenschlüssel anstatt ihn zu drücken.	Pull wrenches rather than push them.

KNARREN UND STECKSCHLÜSSELEINSÄTZE – RATCHETS AND SOCKETS

Knarre und Einsatz müssen den gleichen Antriebsvierkant aufweisen.	Adapt accessories and sockets to the corresponding ratchets (respect the square drive).
Benutzen Sie einen Quergriff um festsitzende Schrauben zu lösen	Use a sliding handle to unclamp blocked screws.

Die Knarre ist für das schnelle Herein- und Herausschrauben gedacht. Achten Sie auf die korrekte Verbindung zwischen Stecknuss und Knarre.

The ratchet is designed for quick tightening on and off. Check its primer on the tool.

SCHRAUBENDREHER – SCREWDRIVERS

Wählen Sie den passenden Schraubendreher im Hinblick auf Schraubentyp und -größe.

Choose your screwdriver according to the screw type and its dimension.

Für Arbeiten an elektrischen Anlagen benutzen Sie isolierte Schraubendreher. Beachten Sie hierbei die max. Voltzahl.

Use the 1000V insulated screwdrivers, ref for your high voltage works.

Achten Sie darauf, dass Ihre Hand nicht zu nah an der Schraube ist, um sich beim evtl. Abrutschen nicht zu verletzen.

Never put your hands near the screw head when tightening.

Für festsitzende Schrauben benutzen Sie Schraubendreher mit Sechskant unter Verwendung des passenden Schraubenschlüssels.

For powerful unclamping, use a screwdriver with hexagonal handle and a wrench. Never use pliers.

Benutzen Sie den Schraubendreher nicht für unsachgemäße Anwendungen wie z.B. als Meißel, Hebel, Durchschläger etc.

A screwdriver must be used as a screwdriver: Do not use it as a chisel, hammer, lever or punch.

ZANGEN – PLIERS AND PINCERS

Tragen Sie eine Sicherheitsbrille für Nietarbeiten, zum Drahtschneiden, etc...

Wear safety glasses for setting circlips or rivets or for wire cutting.

Beachten Sie, dass die Zange dem zu schneidenden Draht entspricht (Härte und Durchmesser des Drahtes).

Respect the cutting plier's capacities (diameter and wire hardness).

Gripzangen sind nur für die zwischenzeitliche Fixierung von Werkstücken gedacht.

Locking pliers are only used for temporary fixation of parts.

Schneiden Sie möglichst in der Mitte der Schneidflächen.

Do not use the plier's extremities for cutting.

WERKZEUGKÄSTEN – TOOLBOXES

Diese Produkte sind nur für die Lagerung und Transport von Werkzeug vorgesehen, nicht aber um Werkzeuge darauf zu lagern.

The boxes are for storage. Do not use them as working table.

HÄMMER / SCHMIEDEWERKZEUGE – HAMMERS / FORGING

Tragen Sie bei Ihren Arbeiten grundsätzlich eine Schutzbrille.

Do wear safety glasses.

Schlagen Sie niemals auf gehärtete Werkstücke (härter als 46 HRC). Für diese Anwendungsfälle muss ein Kunststoffhammer benutzt werden.

Never strike heat-treated materials harder (superior than 46 HRC) than your hammer. If so, use soft mallets.

Vermeiden Sie Prellschläge und benutzen Sie ausschließlich die Arbeitsflächen des Hammers, nicht aber die Seitenflächen.

Always strike a flat and use the striking surfaces designed for this.

Schlagen Sie nie zwei Hämmer gegeneinander.

Never strike a hammer with another hammer (burst risks).

Wählen Sie das Hammergewicht und den Durchmesser sinnvoll im Hinblick auf die zu verrichtende Arbeit.

Do not forget: The striking surface diameter must be superior to the impact surface one.

Lagern Sie Hämmer mit Holzstiel nicht in warmen, trockenen Umgebungen.

Check the storage condition for wooden handles. Do not store wooden handles in warm and dry environment/rooms.

Benutzen Sie keine Hämmer mit Bartbildung. Diese Hämmer sind auszutauschen.

Do not use tools with barbs around the striking surface. Do not hesitate to change your tool.

Für eine bessere Schlagwirkung und weniger Vibrationen fassen Sie den Hammerstiel am Ende an.

For a better grip and less vibrations, hold the handle by its end.

SPITZ- UND FLACHMEISSEL – POINTED CHISELS AND COLD CHISELS

Bearbeiten Sie keine gehärteten Werkstücke (härter als 40 HRC).

Never strike heat-treated materials harder (superior than 40 HRC) than your chisels.

Benutzen Sie keine Meißel mit aufgepelzten Schlagköpfen.

Never use tools when notched or with "mushroom end".

Verwenden Sie möglichst Handprotektoren.

For your security, we suggest safety handles.

FEILEN UND RASPELN – RASPS AND FILES

Benutzen Sie Feilen mit Handgriff.

Never use a file without handle.

Verwenden Sie Kunststoffhammer, um das Feilenheft aufzuschlagen.

Do use a mallet to handle your file.

Benutzen Sie Feilen und Raspeln niemals als Schlagwerkzeug oder Hebel.

Never use your file or rasp as lever or striking tools.

Für Ihre Notizen

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