

IMPACT SOCKETS

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Automotive | Construction | Industry | Assembly | Offshore
Automotive | Bau | Industrie | Montage | Off-Shore
Automobile | BTP | Industrie | Assemblage | Offshore

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IMPACT SOCKETS

ACTION is the worlds' largest manufacturer of impact sockets. Its impact sockets are durable, of high quality and competitively priced and manufactured from the best materials (chrom-molybdenum alloy steel). The ACTION impact sockets can be used for any kind of power tools; air, electric, hydraulic or battery, and for any kind of application ranging from car repair shops to the car industry. At Rami Yokota we have a very large continuous stock available, ranging from 1/4" drive to 2 1/2" drive.



SQUARE DRIVE
ACTION impact sockets are available for square drives of 1/4" up to 2 1/2". The shape of the square drive of these sockets is characterized by rounded off corners, so the square drive of the power tool has the best possible fit. This means that the torque is transmitted on a large area, not only the corners of the socket. This results in good endurance of the sockets and a long lifetime.



6-POINT SOCKETS
The 6-point sockets manufactured by ACTION also have rounded off corners. The rounded corners allow some space for the points of the bolt head, so the torque is transmitted on the flanks of the bolt head, giving you better results. Driving the flanks also means that the wear on the points of the bolt head or nut is reduced. For 12 point sockets, a similar geometry is used.



SURFACE DRIVE SOCKETS
Surface drive sockets are designed to drive only the center of the flank of a bolt head or nut. The surface drive sockets should be recommended for use on nuts with points that have worn off, but also for nuts of softer materials and polished nuts and bolt heads.



WARNING!

The European regulation, directive of machinery 2006/42/EG and EN/ISO 11148-6 states that only IMPACT SOCKETS are to be used on power tools. All Action impact sockets are manufactured according to DIN 3121 and DIN 3129. Universal joints, reducing adaptors and thin wall sockets are supplied without warranty. Always wear safety goggles when using impact equipment. Do not hold the socket while in use.

NOTE: If you can't find the proper dimensions please contact us.

| | |
|---|--|
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|---|--|

KRAFTSTECKSCHLÜSSEL

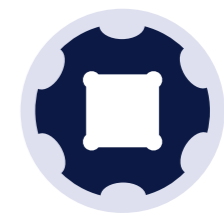
Action ist der weltweit größte Hersteller von Kraftsteckschlüsseln. Die Kraftsteckschlüssel sind langlebig, qualitativ hochwertig, günstig und aus den besten Materialien (Chrom-Molybdän-Stahllegierung) hergestellt. Die Action Kraftsteckschlüssel können für alle Arten von Werkzeugen verwendet werden: Druckluft, elektrisch, hydraulisch oder akkubetrieben und eignen sich für jede Anwendung, von der Reifenwerkstatt bis zur Automobilindustrie. Bei Rami Yokota verfügen wir jederzeit über einen großen Lagerbestand, der von 1/4" Antrieb bis hin zu 2 1/2" Antrieb reicht.



VIERKANTANTRIEB
Action Kraftsteckschlüssel sind lieferbar für Vierkanttrieb von 1/4" bis 2 1/2". Die Form des Vierkanttriebs dieser Kraftsteckschlüssel ist in den Ecken nach außen abgerundet, wodurch der Antriebsvierkant des Schlagschraubers ausgezeichnet passt. Das bedeutet, dass das Drehmoment weitestgehend übertragen wird, nicht nur in den Ecken des Kraftsteckschlüssels. Das verlängert die Lebensdauer der Kraftsteckschlüssel und Schlagschrauber erheblich.



SECHSKANT-KRAFTSTECKSCHLÜSSEL
Die von Action hergestellten Sechskant-Kraftsteckschlüssel haben auch abgerundete Ecken. Die abgerundeten Ecken haben hier das Ziel, den Ecken des Sechskants Platz zu lassen, damit die Kraft auf die Flanken des Schraubenkopfes übertragen wird, was zu einer verbesserten Leistung führt. Durch den Flankenantrieb auf den Schraubenkopf oder die Mutter wird Verschleiß reduziert. Das gilt auch für die Zwölfkantkraftsteckschlüssel.



SURFACE-DRIVE-STECKSCHLÜSSEL
Surface-Drive-Steckschlüssel wurden entwickelt, um nur die Mitte der Schraube oder Mutter anzutreiben. Die Surface-Drive-Steckschlüssel werden empfohlen für die Verwendung von Nüssen mit abgenutzten Ecken, aber auch bei Nüssen aus weicherem Material bzw. polierten Nüssen und Schrauben.



Richtlinie für Maschinen 2006/42/EG und EN/ISO 11148-6 besagt, dass nur Kraftsteckschlüsseinsätze auf Schlagschraubern eingesetzt werden sollen. Alle Action Kraftsteckschlüssel sind gemäß DIN 3121 und DIN 3129 hergestellt. Alle Kugelgelenke und dünnwandigen Kraftsteckschlüssel werden ohne Garantie geliefert.

Sollten Sie die richtigen Typen oder Abmessungen bzw. Schlüsselweiten in diesem Katalog nicht finden, bitte sprechen Sie uns hierzu an!

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DOUILLES À CHOC

Action est le plus grand fabricant mondial de douilles à choc. Les douilles sont durables, de haute qualité, d'un prix compétitif et fabriqués à partir des meilleurs matériaux (acier allié au chrome-molybdène). Les clés à chocs Action peuvent être utilisées avec tous les types d'outils : à air comprimé, électriques, hydrauliques ou à batterie et conviennent à toutes les applications, des garages de pneus à l'industrie automobile. Chez Rami Yokota, nous disposons en permanence d'un stock important, allant de l'entraînement 1 1/4" à l'entraînement 2 1/2".



CARRÉ D'ENTRAÎNEMENT
Les douilles impact Action sont disponibles avec des carrés d'entraînement de taille 1/4" jusqu'à 2 1/2". La forme du carré d'entraînement de ces douilles est caractérisée par les coins arrondis, ainsi le carré d'entraînement de la visseuse a le meilleur positionnement possible. Ceci entraîne un couple de serrage transmis sur une large surface et non seulement dans les coins de la douille. Il résulte ainsi une bonne endurance des douilles et une longue durée de vie.



DOUILLES 6-PANS
Les douilles 6-pans fabriquées par Action ont aussi des coins arrondis. Les coins arrondis permettent de l'espace pour la tête de vis 6-pans, ainsi le couple de serrage est transmis sur les flancs de la tête de vis, donnant de meilleurs résultats. L'entraînement des flancs signifie aussi que l'usure des flancs sur les pans de la tête de vis ou du boulon est réduite. Pour les douilles 12-pans une géométrie similaire est utilisée.



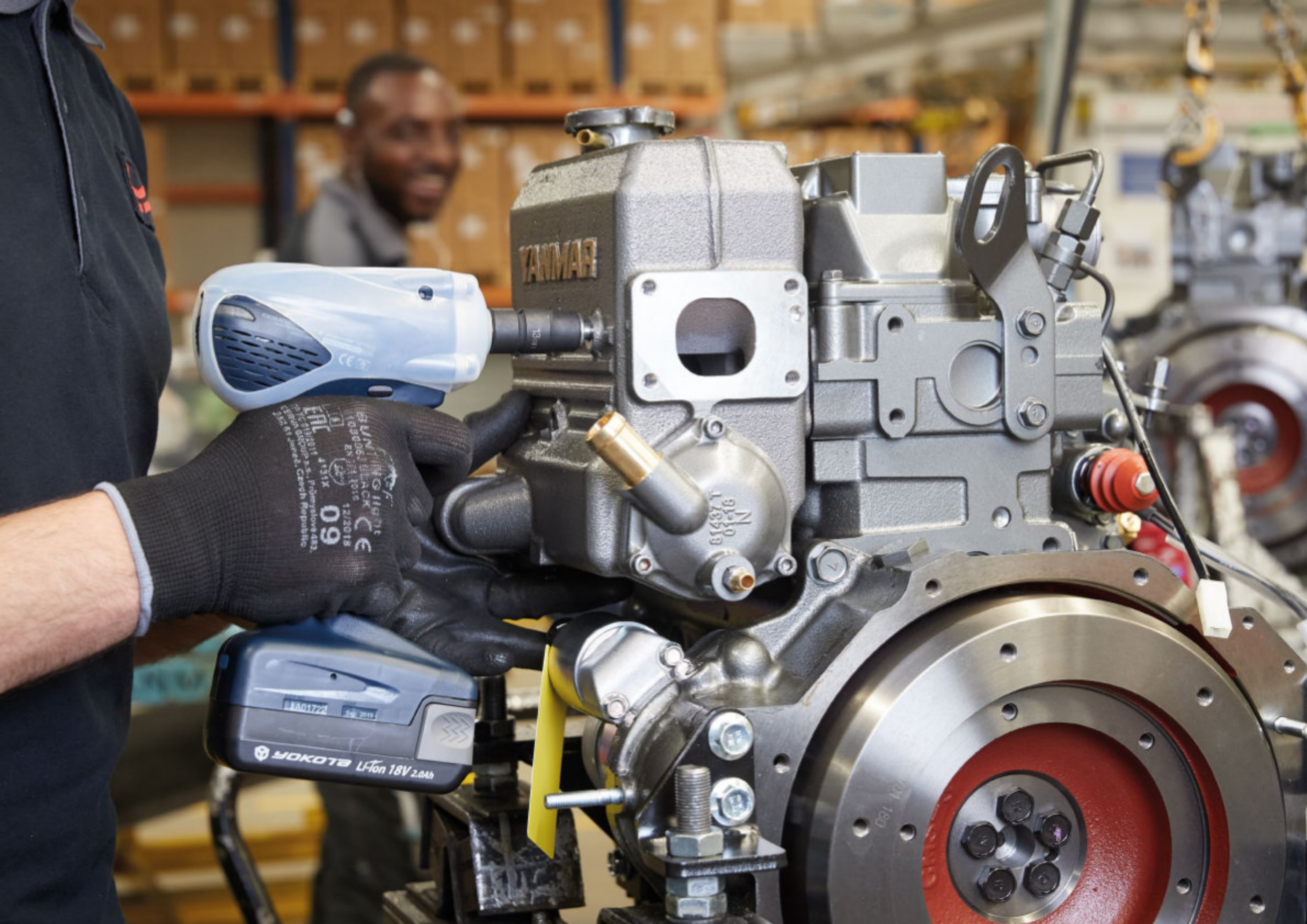
DOUILLES SURFACE DRIVE
Les douilles Surface Drive sont conçues pour entraîner seulement le centre des flancs de la tête de vis ou du boulon. Les douilles Surface Drive doivent être recommandées pour une utilisation avec des boulons à pans usés, mais aussi pour des boulons avec des matériaux plus tendres et des têtes de vis ou boulons polis.



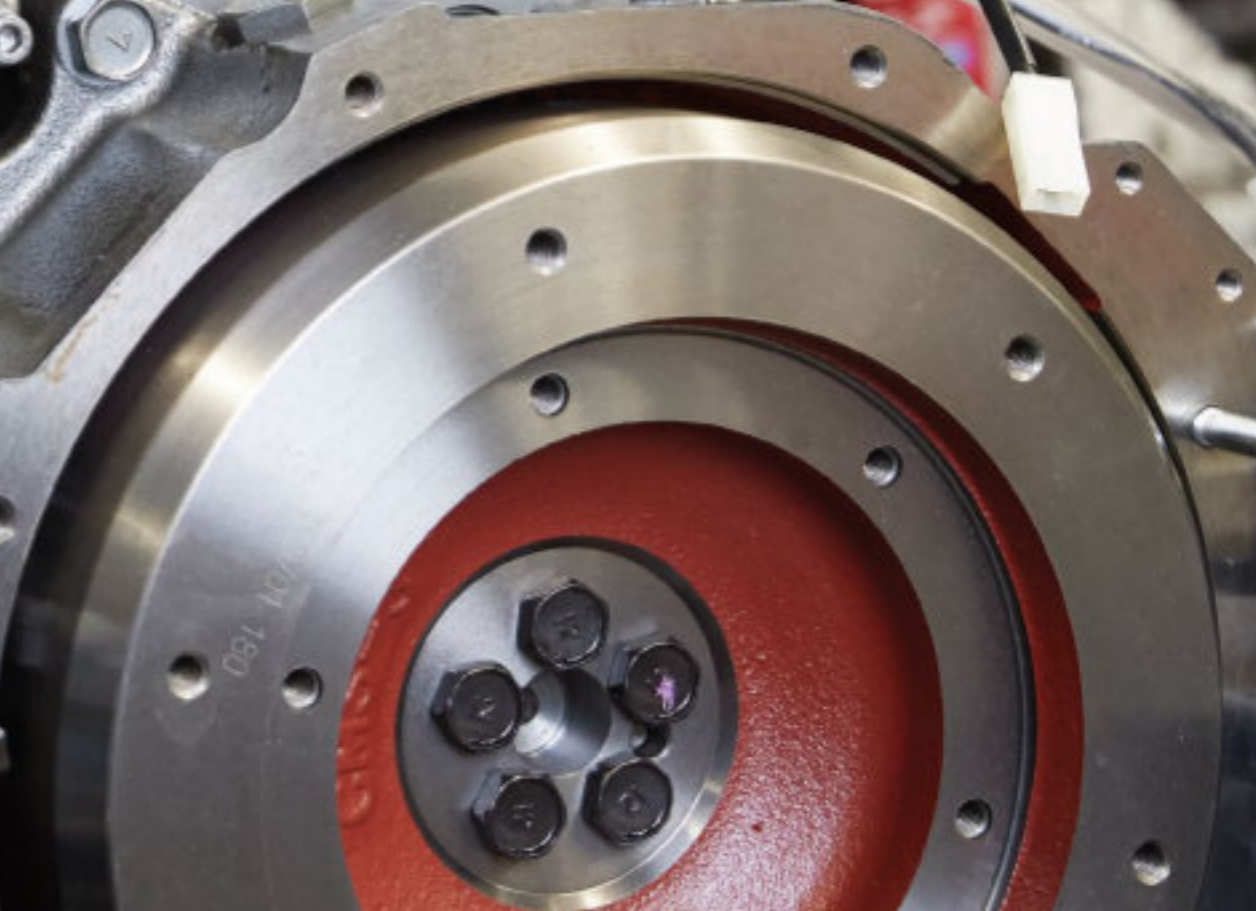
ATTENTION!

Toujours porter des lunettes de sécurité en utilisant des outils à chocs. Ne pas tenir la douille pendant l'utilisation. Toutes les douilles à chocs Action sont usinées selon les normes DIN 3121 et DIN 3129. Les douilles à cardan et à paroi mince sont fournies sans garantie. La réglementation européenne, Directive des machines 2006/42/EG et EN/ISO 11148-6, statue que seules les douilles à chocs sont à utiliser avec des visseuses motorisées.

Att.: Si vous ne pouvez trouver les dimensions, type et tailles requises pour votre application dans ce catalogue, contactez nous!

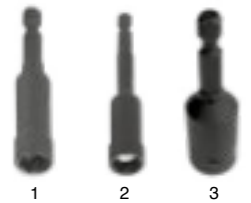


YANMAR



1/4" HEX DRIVE FOR SCREWDRIVERS

SECHSKANT FÜR DREHSCHRAUBER | 6-PANS POUR VISSEUSES



1
6-POINT NORMAL
6-KANT NORMAL
6-PANS NORMALE

| Type | mm | Drawing | D1 mm | L mm | L1 mm | - |
|---------------------------------|----|---------|-------|------|-------|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO697B0S04 | 4 | AH | 8 | 55 | 4,5 | - |
| DO697B0S06 | 6 | AH | 10 | 55 | 4,5 | - |
| DO697B0S07 | 7 | AH | 11 | 55 | 5 | - |
| DO697B0S08 | 8 | AH | 12 | 55 | 5 | - |
| DO697B0S10 | 10 | AH | 14 | 55 | 6,5 | - |
| DO697B0T06 | 6 | AH | 10 | 75 | 4,5 | - |
| DO697B0T07 | 7 | AH | 11 | 75 | 4,5 | - |
| DO697B0T08 | 8 | AH | 12 | 75 | 4,5 | - |
| DO697B0T10 | 10 | AH | 14 | 75 | 5,5 | - |
| DO697B0T12 | 12 | AH | 17 | 75 | 5,5 | - |
| DO697B0T13 | 13 | AH | 18 | 75 | 5,5 | - |
| DO697B0T14 | 14 | AH | 19 | 75 | 5,5 | - |
| DO697B0W12 | 12 | AH | 17 | 200 | 5,5 | - |
| DO697B0W14 | 14 | AH | 19 | 200 | 5,5 | - |

2
6-POINT DEEP MAGNETIC
6-KANT TIEF MAGNETISCH
6-PANS PROFONDE MAGNÉTIQUE

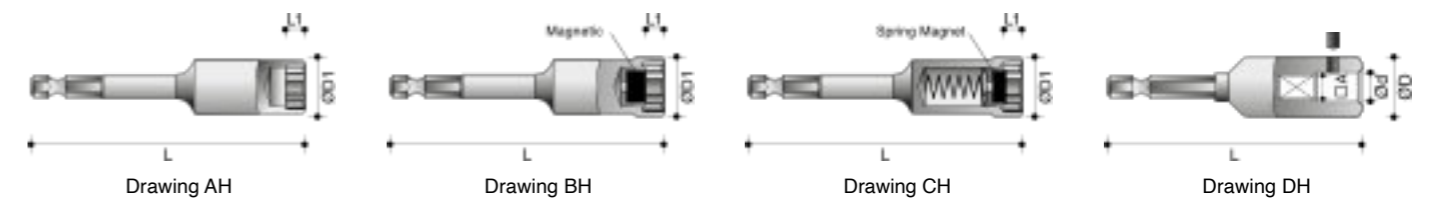
| Type | mm | Drawing | D1 mm | L mm | L1 mm | - |
|---------------------------------|----|---------|-------|------|-------|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO697B6006 | 6 | CH | 10 | 75 | 4,5 | - |
| DO697B7006 | 6 | CH | 10 | 100 | 4,5 | - |
| DO697B7008 | 8 | CH | 12 | 100 | 4,5 | - |
| DO697B7010 | 10 | CH | 14 | 100 | 5,5 | - |
| DO697B7012 | 12 | CH | 17 | 100 | 5,5 | - |
| DO697B7013 | 13 | CH | 18 | 100 | 5,5 | - |
| DO697B7014 | 14 | CH | 19 | 100 | 5,5 | - |
| DO697B8006 | 6 | CH | 10 | 150 | 4,5 | - |
| DO697B8008 | 8 | CH | 12 | 150 | 4,5 | - |
| DO697B8010 | 10 | CH | 14 | 150 | 5,5 | - |
| DO697B8012 | 12 | CH | 17 | 150 | 5,5 | - |
| DO697B8013 | 13 | CH | 18 | 150 | 5,5 | - |
| DO697B8014 | 14 | CH | 19 | 150 | 5,5 | - |
| DO697B9006 | 6 | CH | 10 | 200 | 4,5 | - |
| DO697B9008 | 8 | CH | 12 | 200 | 4,5 | - |
| DO697B9010 | 10 | CH | 14 | 200 | 5,5 | - |
| DO697B9012 | 12 | CH | 17 | 200 | 5,5 | - |
| DO697B9013 | 13 | CH | 18 | 200 | 5,5 | - |
| DO697B9014 | 14 | CH | 19 | 200 | 5,5 | - |

2
6-POINT MAGNETIC
6-KANT MAGNETISCH
6-PANS MAGNÉTIQUE

| Type | mm | Drawing | D1 mm | L mm | L1 mm | - |
|---------------------------------|----|---------|-------|------|-------|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO697B0M06 | 6 | BH | 10 | 55 | 4,5 | - |
| DO697B0M07 | 7 | BH | 11 | 55 | 4,5 | - |
| DO697B0M08 | 8 | BH | 12 | 55 | 4,5 | - |
| DO697B0M10 | 10 | BH | 14 | 55 | 5,5 | - |
| DO697B0M11 | 11 | BH | 16 | 55 | 5,5 | - |
| DO697B0M12 | 12 | BH | 17 | 55 | 5,5 | - |
| DO697B0M13 | 13 | BH | 18 | 55 | 5,5 | - |
| DO697B0M14 | 14 | BH | 19 | 55 | 5,5 | - |
| DO697B0N10 | 10 | BH | 14 | 75 | 5,5 | - |
| DO697B0N12 | 12 | BH | 17 | 75 | 5,5 | - |
| DO697B0P06 | 6 | BH | 10 | 100 | 4,5 | - |
| DO697B0P07 | 7 | BH | 11 | 100 | 4,5 | - |
| DO697B0P08 | 8 | BH | 12 | 100 | 4,5 | - |
| DO697B0P10 | 10 | BH | 14 | 100 | 5,5 | - |
| DO697B0P12 | 12 | BH | 17 | 100 | 5,5 | - |
| DO697B0P13 | 13 | BH | 18 | 100 | 5,5 | - |
| DO697B0P14 | 14 | BH | 19 | 100 | 5,5 | - |
| DO697B0P17 | 17 | BH | 23 | 100 | 5,5 | - |
| DO697B0Q10 | 10 | BH | 14 | 150 | 5,5 | - |
| DO697B0R07 | 7 | BH | 11 | 200 | 4,5 | - |
| DO697B0R10 | 10 | BH | 14 | 200 | 5,5 | - |

3
TAP HOLDERS
GEWINDEBOHRERHALTER
DOUILLE PORTE-TARAUD

| Type | A mm | Drawing | Ø d mm | Ø D mm | L mm | - |
|---------------------------------|------|---------|--------|--------|------|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO63A65001 | 3,4 | DH | 4,5 | 14 | 55 | - |
| DO63A65002 | 4,9 | DH | 6 | 15 | 55 | - |
| DO63A65003 | 5,5 | DH | 7 | 16 | 55 | - |
| DO63A65004 | 6,2 | DH | 8 | 17 | 60 | - |
| DO63A65005 | 7 | DH | 9 | 18 | 70 | - |
| DO63A65006 | 8 | DH | 10 | 19 | 70 | - |
| DO63A65007 | 9 | DH | 11 | 20 | 70 | - |
| DO63A65008 | 9 | DH | 12 | 21 | 70 | - |
| DO63A65009 | 11 | DH | 14 | 23 | 75 | - |



1/4" SQUARE DRIVE

VIERKANT | CARRÉ



6-POINT NORMAL
6-KANT NORMAL
6-PANS NORMALE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|---|
| Metrical · Metrisch · Metriques | | | | | | |
| DO0014-0-004 | 4 | A | 7,6 | 13 | 23 | 4 |
| DO0014-0-0045 | 4,5 | A | 8,2 | 13 | 23 | 5 |
| DO0014-0-005 | 5 | A | 8,8 | 13 | 23 | 5 |
| DO0014-0-0055 | 5,5 | A | 9,5 | 13 | 23 | 5 |
| DO0014-0-006 | 6 | A | 10 | 13 | 23 | 6 |
| DO0014-0-007 | 7 | A | 11,3 | 13 | 23 | 6 |
| DO0014-0-008 | 8 | A | 12,5 | 13 | 23 | 7 |
| DO0014-0-009 | 9 | A | 13,8 | 13 | 23 | 7 |
| DO0014-0-010 | 10 | C | 15 | 13 | 23 | 7 |
| DO0014-0-011 | 11 | C | 16,3 | 13 | 23 | 8 |
| DO0014-0-012 | 12 | C | 17 | 13 | 23 | 8 |
| DO0014-0-013 | 13 | C | 18,8 | 13 | 23 | 8 |
| DO0014-0-014 | 14 | C | 20 | 13 | 23 | 8 |
| DO0014-0-015 | 15 | C | 21 | 13 | 23 | 8 |

6-POINT NORMAL MAGNETIC
6-KANT NORMAL MAGNETISCH
6-PANS NORMALE MAGNÉTIQUE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|---|
| Metrical · Metrisch · Metriques | | | | | | |
| DO6050P050 | 5 | A | 8,8 | 13 | 23 | 3 |
| DO6050P055 | 5,5 | A | 9,5 | 13 | 23 | 3 |
| DO6050P060 | 6 | A | 10 | 13 | 23 | 3 |
| DO6050P070 | 7 | A | 11,3 | 13 | 23 | 3 |
| DO6050P080 | 8 | A | 12,5 | 13 | 23 | 3 |
| DO6050P090 | 9 | C | 13,8 | 13 | 23 | 4 |
| DO6050P100 | 10 | C | 15 | 13 | 23 | 4 |
| DO6050P110 | 11 | C | 16,3 | 13 | 23 | 5 |
| DO6050P120 | 12 | C | 17 | 13 | 23 | 5 |
| DO6050P130 | 13 | C | 18,8 | 13 | 23 | 5 |
| DO6050P140 | 14 | C | 20 | 13 | 23 | 6 |
| DO6050P150 | 15 | C | 21 | 13 | 23 | 6 |
| DO0014-1-015 | 15 | C | 21 | 13 | 50 | 9 |

6-POINT NORMAL
6-KANT NORMAL
6-PANS NORMALE

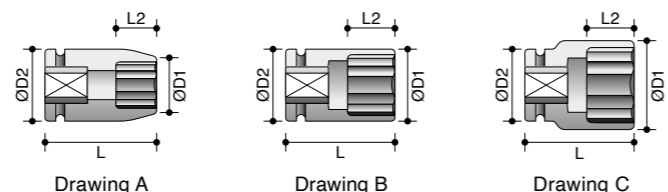
| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|--------------------|---------|-------|-------|------|-------|---|
| SAE · Zoll · Pouce | | | | | | |
| DO0014-0-3/16 | 3/16" | A | 8,5 | 13 | 23 | 5 |
| DO0014-0-1/4 | 1/4" | A | 10,3 | 13 | 23 | 6 |
| DO0014-0-5/16 | 5/16" | A | 12,5 | 13 | 23 | 7 |
| DO0014-0-3/8 | 3/8" | C | 15 | 13 | 23 | 7 |
| DO0014-0-7/16 | 7/16" | C | 16,3 | 13 | 23 | 8 |
| DO0014-0-1/2 | 1/2" | C | 18,8 | 13 | 23 | 8 |

6-POINT DEEP MAGNETIC
6-KANT TIEF MAGNETISCH
6-PANS PROFONDE MAGNÉTIQUE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|---|
| Metrical · Metrisch · Metriques | | | | | | |
| DO6050R050 | 5 | A | 8,8 | 13 | 50 | 3 |
| DO6050R055 | 5,5 | A | 9,5 | 13 | 50 | 3 |
| DO6050R060 | 6 | A | 10 | 13 | 50 | 3 |
| DO6050R070 | 7 | A | 11,3 | 13 | 50 | 3 |
| DO6050R080 | 8 | A | 12,5 | 13 | 50 | 3 |
| DO6050R090 | 9 | C | 13,8 | 13 | 50 | 4 |
| DO6050R100 | 10 | C | 15 | 13 | 50 | 4 |
| DO6050R110 | 11 | C | 16,3 | 13 | 50 | 5 |
| DO6050R120 | 12 | C | 17 | 13 | 50 | 5 |
| DO6050R130 | 13 | C | 18,8 | 13 | 50 | 5 |
| DO6050R140 | 14 | C | 20 | 13 | 50 | 6 |
| DO6050R150 | 15 | C | 21 | 13 | 50 | 6 |

6-POINT DEEP
6-KANT TIEF
6-PANS PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|---|
| Metrical · Metrisch · Metriques | | | | | | |
| DO0014-1-004 | 4 | A | 7,6 | 13 | 50 | 4 |
| DO0014-1-045 | 4,5 | A | 8,2 | 13 | 50 | 6 |
| DO0014-1-005 | 5 | A | 8,8 | 13 | 50 | 6 |
| DO0014-1-006 | 6 | A | 10 | 13 | 50 | 7 |
| DO0014-1-007 | 7 | A | 11,3 | 13 | 50 | 7 |
| DO0014-1-008 | 8 | A | 12,5 | 13 | 50 | 9 |
| DO0014-1-009 | 9 | C | 13,8 | 13 | 50 | 9 |
| DO0014-1-010 | 10 | C | 15 | 13 | 50 | 9 |
| DO0014-1-011 | 11 | C | 16,3 | 13 | 50 | 9 |
| DO0014-1-012 | 12 | C | 17 | 13 | 50 | 9 |
| DO0014-1-013 | 13 | C | 18,8 | 13 | 50 | 9 |
| DO0014-1-014 | 14 | C | 20 | 13 | 50 | 9 |
| DO0014-1-015 | 15 | C | 21 | 13 | 50 | 9 |



1/4" SQUARE DRIVE

VIERKANT | CARRÉ



HEX DRIVER (INBUS)
AUSSEN-6-KANT (INBUS)
EMPREINTE-6-PANS (INBUS)

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|---------------------------------|---------|-------|------|-------|----|---|
| Metrical · Metrisch · Metriques | | | | | | |
| DO64805025 | 2,5 | D | 13 | 35 | 4 | - |
| DO64805030 | 3 | D | 13 | 35 | 6 | - |
| DO64805040 | 4 | D | 13 | 35 | 6 | - |
| DO64805050 | 5 | D | 13 | 35 | 6 | - |
| DO64805060 | 6 | D | 13 | 35 | 8 | - |
| DO64805070 | 7 | D | 13 | 35 | 8 | - |
| DO64805080 | 8 | D | 13 | 35 | 8 | - |
| DO64805090 | 9 | D | 13 | 35 | 10 | - |
| DO64805100 | 10 | D | 13 | 35 | 10 | - |

TORX®EXTERNAL
TORX®AUSSEN
TORX®EXTÉRIEURE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|------------|---------|-------|-------|------|-------|-----|
| DO63300004 | E4 | A | 7,2 | 13 | 25 | 4 |
| DO63300005 | E5 | A | 8 | 13 | 25 | 4,5 |
| DO63300006 | E6 | A | 9 | 13 | 25 | 5 |
| DO63300007 | E7 | A | 9,5 | 13 | 25 | 6 |
| DO63300008 | E8 | A | 10 | 13 | 25 | 6 |
| DO63300010 | E10 | A | 12,5 | 13 | 25 | 7,5 |
| DO63300011 | E11 | B | 13 | 13 | 25 | 8 |
| DO63300012 | E12 | B | 14,5 | 14,5 | 25 | 8,5 |

Torx® is a trademark of Textron.

TORX®INTERNAL
TORX®INNEN
TORX®INTÉRIEURE

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|---------------------------------|---------|-------|------|-------|-----|---|
| Metrical · Metrisch · Metriques | | | | | | |
| DO64701005 | T5 | F | 13 | 35 | 2 | - |
| DO64701006 | T6 | F | 13 | 35 | 2 | - |
| DO64701007 | T7 | F | 13 | 35 | 2 | - |
| DO64701008 | T8 | F | 13 | 35 | 2 | - |
| DO64701009 | T9 | F | 13 | 35 | 2 | - |
| DO64701010 | T10 | F | 13 | 35 | 2,8 | - |
| DO64701015 | T15 | F | 13 | 35 | 2,8 | - |
| DO64701020 | T20 | F | 13 | 35 | 2,8 | - |
| DO64701025 | T25 | F | 13 | 35 | 3 | - |
| DO64701027 | T27 | F | 13 | 35 | 3 | - |
| DO64701030 | T30 | F | 13 | 35 | 3,8 | - |

Torx® is a trademark of Textron.

TORX®THIN WALL EXTERNAL
TORX®DÜNNWANDIG AUSSEN
TORX®À PAROI MINCE EXTÉRIEURE

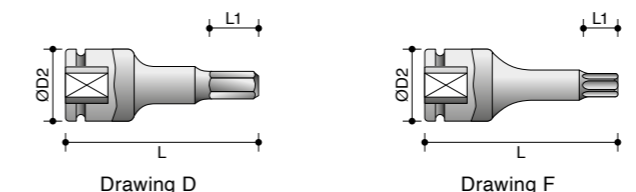
| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|------------|---------|-------|-------|------|-------|-----|
| DO63305004 | E4 | A | 6,5 | 13 | 25 | 4 |
| DO63305005 | E5 | A | 7,5 | 13 | 25 | 4,5 |
| DO63305006 | E6 | A | 8,5 | 13 | 25 | 5 |
| DO63305007 | E7 | A | 9 | 13 | 25 | 6 |
| DO63305008 | E8 | A | 9,8 | 13 | 25 | 6 |
| DO63305010 | E10 | A | 12 | 13 | 25 | 6,5 |
| DO63305011 | E11 | A | 12,7 | 13 | 25 | 8 |
| DO63305012 | E12 | A | 14 | 14,5 | 25 | 8,5 |

Thin wall sockets are not included in the Action warranty.
Torx® is a trademark of Textron.

TORX®TAMPER RESISTANT INTERNAL
TORX®TAMPER RESISTANT INNEN
TORX®TAMPER RESISTANT INTÉRIEURE

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|------------|---------|-------|------|-------|-----|---|
| DO64706008 | T8 | F | 13 | 35 | 2,0 | - |
| DO64706009 | T9 | F | 13 | 35 | 2,0 | - |
| DO64706010 | T10 | F | 13 | 35 | 2,8 | - |
| DO64706015 | T15 | F | 13 | 35 | 2,8 | - |
| DO64706020 | T20 | F | 13 | 35 | 2,8 | - |
| DO64706025 | T25 | F | 13 | 35 | 3,0 | - |
| DO64706027 | T27 | F | 13 | 35 | 3,0 | - |
| DO64706030 | T30 | F | 13 | 35 | 3,8 | - |

Torx® is a trademark of Textron.



1/4" SQUARE DRIVE

VIERKANT | CARRÉ



SURFACE DRIVE NORMAL SURFACE DRIVE NORMAL SURFACE DRIVE NORMALE

| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|-----|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | | |
| DO63405040 | 4 | A | 7,6 | 13 | 23 | 4 |
| DO63405045 | 4,5 | A | 8,2 | 13 | 23 | 5 |
| DO63405050 | 5 | A | 8,8 | 13 | 23 | 5 |
| DO63405055 | 5,5 | A | 9,5 | 13 | 23 | 5 |
| DO63405060 | 6 | A | 10 | 13 | 23 | 6 |
| DO63405070 | 7 | A | 11,3 | 13 | 23 | 6 |
| DO63405080 | 8 | A | 12,5 | 13 | 23 | 7 |
| DO63405090 | 9 | C | 13,8 | 13 | 23 | 7 |
| DO63405100 | 10 | C | 15 | 13 | 23 | 7 |
| DO63405110 | 11 | C | 16,3 | 13 | 23 | 8 |
| DO63405120 | 12 | C | 17 | 13 | 23 | 8 |
| DO63405130 | 13 | C | 18,8 | 13 | 23 | 8 |
| DO63405140 | 14 | C | 20 | 13 | 23 | 8 |
| DO63405150 | 15 | C | 21 | 13 | 23 | 8 |

SURFACE DRIVE DEEP SURFACE DRIVE TIEF SURFACE DRIVE PROFONDE

| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|-----|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | | |
| DO63407040 | 4 | A | 7,6 | 13 | 50 | 4 |
| DO63407045 | 4,5 | A | 8,2 | 13 | 50 | 6 |
| DO63407050 | 5 | A | 8,8 | 13 | 50 | 6 |
| DO63407055 | 5,5 | A | 9,5 | 13 | 50 | 6 |
| DO63407060 | 6 | A | 10 | 13 | 50 | 7 |
| DO63407070 | 7 | A | 11,3 | 13 | 50 | 7 |
| DO63407080 | 8 | A | 12,5 | 13 | 50 | 9 |
| DO63407090 | 9 | C | 13,8 | 13 | 50 | 9 |
| DO63407100 | 10 | C | 15 | 13 | 50 | 9 |
| DO63407110 | 11 | C | 16,3 | 13 | 50 | 9 |
| DO63407120 | 12 | C | 17 | 13 | 50 | 9 |
| DO63407130 | 13 | C | 18,8 | 13 | 50 | 9 |
| DO63407140 | 14 | C | 20 | 13 | 50 | 9 |
| DO63407150 | 15 | C | 21 | 13 | 50 | 9 |

UNIVERSAL JOINT SOCKETS 6-POINT KUGELGELENKSSCHLÜSSEL 6-KANT CARDAN 6-PANS NORMALE

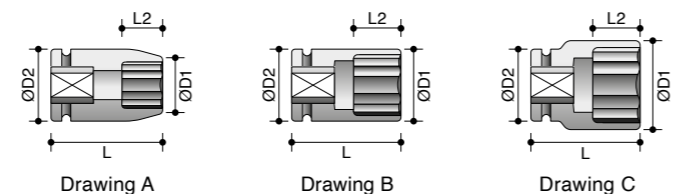
| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|-----|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | | |
| DO62500050 | 5 | E | 8,8 | 15 | 43 | 5 |
| DO62500055 | 5,5 | E | 9,5 | 15 | 43 | 6 |
| DO62500060 | 6 | E | 10 | 15 | 43 | 6 |
| DO62500070 | 7 | E | 11,5 | 15 | 43 | 8 |
| DO62500080 | 8 | E | 12,5 | 15 | 43 | 8 |
| DO62500090 | 9 | E | 14 | 15 | 43 | 8 |
| DO62500100 | 10 | E | 15 | 15 | 43 | 8 |
| DO62500110 | 11 | E | 16,5 | 15 | 43 | 8 |
| DO62500120 | 12 | E | 16,8 | 16 | 48 | 8 |
| DO62500130 | 13 | E | 18,8 | 16 | 48 | 8 |
| DO62500140 | 14 | E | 19,8 | 16 | 48 | 8 |
| DO62500150 | 15 | E | 20,8 | 16 | 48 | 8 |

Universal joint sockets are not included in the Action warranty.



PIN & RING | RING & STIFT | JOINT TORIQUE CLAVETTE

| Type |
|--------------|
| DO1014-0-000 |



3/8" SQUARE DRIVE

VIERKANT | CARRÉ



6-POINT NORMAL 6-KANT NORMAL 6-PANS NORMALE

| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|----|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | | |
| DO1038-0-006 | 6 | A | 11 | 19 | 30 | 4 |
| DO1038-0-007 | 7 | A | 12,5 | 19 | 30 | 8 |
| DO1038-0-008 | 8 | A | 14 | 19 | 30 | 8 |
| DO1038-0-009 | 9 | A | 15 | 19 | 30 | 8 |
| DO1038-0-010 | 10 | A | 16 | 19 | 30 | 8 |
| DO1038-0-011 | 11 | A | 17,5 | 19 | 30 | 9 |
| DO1038-0-012 | 12 | B | 19 | 19 | 30 | 9 |
| DO1038-0-013 | 13 | A | 20 | 22 | 30 | 9 |
| DO1038-0-014 | 14 | A | 21 | 22 | 30 | 9 |
| DO1038-0-015 | 15 | B | 22 | 22 | 30 | 11 |
| DO1038-0-016 | 16 | C | 24 | 22 | 30 | 11 |
| DO1038-0-017 | 17 | C | 25 | 22 | 30 | 11 |
| DO1038-0-018 | 18 | C | 26 | 22 | 30 | 11 |
| DO1038-0-019 | 19 | C | 27,5 | 22 | 30 | 11 |
| DO1038-0-020 | 20 | C | 28 | 22 | 30 | 12 |
| DO1038-0-021 | 21 | C | 30 | 22 | 30 | 13 |
| DO1038-0-022 | 22 | C | 32 | 23 | 30 | 13 |
| DO1038-0-024 | 24 | C | 34 | 23 | 30 | 13 |

6-POINT NORMAL 6-KANT NORMAL 6-PANS NORMALE

| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|--------------------|--------|---------|-------|-------|------|-------|
| SAE · Zoll · Pouce | | | | | | |
| DO1038-0-5/16 | 5/16" | A | 12,5 | 19 | 30 | 8 |
| DO1038-0-3/8 | 3/8" | A | 14,5 | 19 | 30 | 8 |
| DO1038-0-7/16 | 7/16" | A | 17 | 19 | 30 | 9 |
| DO1038-0-1/2 | 1/2" | B | 19 | 19 | 30 | 9 |
| DO1038-0-9/16 | 9/16" | B | 20 | 20 | 30 | 9 |
| DO1038-0-5/8 | 5/8" | B | 24 | 24 | 30 | 11 |
| DO1038-0-11/16 | 11/16" | B | 24 | 24 | 30 | 11 |

6-POINT NORMAL MAGNETIC 6-KANT NORMAL MAGNETISCH 6-PANS NORMALE MAGNÉTIQUE

| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|----|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | | |
| DO6051P006 | 6 | A | 11,5 | 19 | 30 | 3 |
| DO6051P007 | 7 | A | 12,5 | 19 | 30 | 3 |
| DO6051P008 | 8 | A | 14 | 19 | 30 | 3 |
| DO6051P009 | 9 | A | 15 | 19 | 30 | 4 |
| DO6051P010 | 10 | A | 16,5 | 19 | 30 | 4 |
| DO6051P011 | 11 | A | 17,5 | 19 | 30 | 5 |
| DO6051P012 | 12 | B | 19 | 19 | 30 | 5 |
| DO6051P013 | 13 | A | 20 | 22 | 30 | 5 |
| DO6051P014 | 14 | A | 21,5 | 22 | 30 | 6 |
| DO6051P015 | 15 | B | 22 | 22 | 30 | 6 |
| DO6051P016 | 16 | C | 24 | 22 | 30 | 6 |
| DO6051P017 | 17 | C | 25 | 22 | 30 | 6 |
| DO6051P018 | 18 | C | 26 | 22 | 30 | 7 |
| DO6051P019 | 19 | C | 27,5 | 22 | 30 | 7 |

6-POINT DEEP MAGNETIC 6-KANT TIEF MAGNETISCH 6-PANS PROFONDE MAGNÉTIQUE

| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|----|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | | |
| DO6051R006 | 6 | A | 11,5 | 19 | 55 | 3 |
| DO6051R007 | 7 | A | 12,5 | 19 | 55 | 3 |
| DO6051R008 | 8 | A | 14 | 19 | 55 | 3 |
| DO6051R009 | 9 | A | 15 | 19 | 55 | 4 |
| DO6051R010 | 10 | A | 16,5 | 19 | 55 | 4 |
| DO6051R011 | 11 | A | 17,5 | 19 | 55 | 5 |
| DO6051R012 | 12 | B | 19 | 19 | 55 | 5 |
| DO6051R013 | 13 | A | 20 | 22 | 55 | 5 |
| DO6051R014 | 14 | A | 21,5 | 22 | 55 | 6 |
| DO6051R015 | 15 | B | 22 | 22 | 55 | 6 |
| DO6051R016 | 16 | C | 24 | 22 | 55 | 6 |
| DO6051R017 | 17 | C | 25 | 22 | 55 | 6 |
| DO6051R018 | 18 | C | 26 | 22 | 55 | 7 |
| DO6051R019 | 19 | C | 27,5 | 22 | 55 | 7 |

3/8" SQUAREDRIVE

VIERKANT | CARRÉ



6-POINT DEEP
6-KANT TIEF
6-PANS PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO1038-1-006 | 6 A | 11 | 19 | 63 | 12 |
| DO1038-1-007 | 7 A | 12,5 | 19 | 63 | 12 |
| DO1038-1-008 | 8 A | 13,8 | 19 | 63 | 12 |
| DO1038-1-009 | 9 A | 15 | 19 | 65 | 12 |
| DO1038-1-010 | 10 A | 16 | 19 | 65 | 12 |
| DO1038-1-011 | 11 A | 17,5 | 19 | 65 | 25 |
| DO1038-1-012 | 12 B | 19 | 19 | 65 | 25 |
| DO1038-1-013 | 13 A | 20 | 22 | 65 | 25 |
| DO1038-1-014 | 14 A | 21 | 22 | 65 | 25 |
| DO1038-1-015 | 15 B | 22 | 22 | 65 | 25 |
| DO1038-1-016 | 16 C | 24 | 22 | 65 | 25 |
| DO1038-1-017 | 17 C | 25 | 22 | 65 | 25 |
| DO1038-1-018 | 18 C | 26 | 22 | 65 | 25 |
| DO1038-1-019 | 19 C | 27,5 | 22 | 65 | 25 |
| DO1038-1-020 | 20 C | 28 | 22 | 65 | 25 |
| DO1038-1-021 | 21 C | 30 | 22 | 65 | 25 |
| DO1038-1-022 | 22 C | 32 | 23 | 65 | 25 |
| DO1038-1-024 | 24 C | 34 | 23 | 65 | 25 |

12-POINT NORMAL
12-KANT NORMAL
12-PANS NORMALE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO65815006 | 6 A | 11 | 19 | 30 | 5 |
| DO65815007 | 7 A | 12 | 19 | 30 | 8 |
| DO65815008 | 8 A | 13 | 19 | 30 | 8 |
| DO65815009 | 9 A | 15 | 19 | 30 | 8 |
| DO65815010 | 10 A | 16 | 19 | 30 | 8 |
| DO65815011 | 11 A | 17,5 | 19 | 30 | 9 |
| DO65815012 | 12 A | 18,5 | 19 | 30 | 9 |
| DO65815013 | 13 A | 20 | 22 | 30 | 10 |
| DO65815014 | 14 A | 21 | 22 | 32 | 11 |
| DO65815015 | 15 B | 22 | 22 | 32 | 12 |
| DO65815016 | 16 C | 24 | 22 | 32 | 12 |
| DO65815017 | 17 C | 25 | 22 | 34 | 12 |
| DO65815018 | 18 C | 26 | 22 | 34 | 13 |
| DO65815019 | 19 C | 27 | 22 | 34 | 13 |
| DO65815020 | 20 C | 28 | 22 | 34 | 13 |
| DO65815021 | 21 C | 30 | 22 | 34 | 14 |
| DO65815022 | 22 C | 31 | 23 | 34 | 15 |
| DO65815023 | 23 C | 32 | 23 | 34 | 15 |
| DO65815024 | 24 C | 34 | 23 | 34 | 16 |
| DO65815025 | 25 C | 35 | 23 | 36 | 16 |
| DO65815026 | 26 C | 36 | 23 | 36 | 16 |

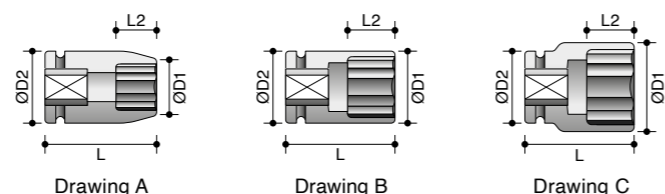
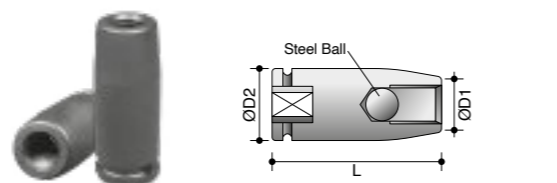
12-POINT DEEP
12-KANT TIEF
12-PANS PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO65817006 | 6 A | 11 | 19 | 63 | 5 |
| DO65817007 | 7 A | 12 | 19 | 63 | 5 |
| DO65817008 | 8 A | 13 | 19 | 63 | 6 |
| DO65817009 | 9 A | 15 | 19 | 65 | 6 |
| DO65817010 | 10 A | 16 | 19 | 65 | 7 |
| DO65817011 | 11 A | 17,5 | 19 | 65 | 8 |
| DO65817012 | 12 A | 18,5 | 19 | 65 | 9 |
| DO65817013 | 13 A | 20 | 22 | 65 | 9 |
| DO65817014 | 14 A | 21 | 22 | 65 | 11 |
| DO65817015 | 15 B | 22 | 22 | 65 | 11 |
| DO65817016 | 16 C | 24 | 22 | 65 | 11 |
| DO65817017 | 17 C | 25 | 22 | 65 | 11 |
| DO65817018 | 18 C | 26 | 22 | 65 | 13 |
| DO65817019 | 19 C | 27 | 22 | 65 | 13 |
| DO65817020 | 20 C | 28 | 22 | 65 | 13 |
| DO65817021 | 21 C | 30 | 22 | 65 | 15 |
| DO65817022 | 22 C | 31 | 23 | 65 | 15 |
| DO65817023 | 23 C | 32 | 23 | 65 | 15 |
| DO65817024 | 24 C | 34 | 23 | 65 | 16 |
| DO65817025 | 25 C | 35 | 23 | 65 | 16 |
| DO65817026 | 26 C | 36 | 23 | 65 | 16 |

ACCESSORIES | ZUBEHÖR | ACCESSOIRES

STUD BOLT SETTERS
STEBBOLZENSETZER
PRISE GOUJON

| Type | Size | D1 mm | D2 mm | L mm |
|------------|----------|-------|-------|------|
| DO69781050 | M5x0,8 | 12 | 22 | 50 |
| DO69781053 | M6x1,0 | 12,5 | 22 | 50 |
| DO69781056 | M7x1,0 | 13 | 22 | 50 |
| DO69781059 | M8x1,0 | 15 | 22 | 50 |
| DO69781060 | M8x1,25 | 14,5 | 22 | 50 |
| DO69781062 | M10x1,25 | 18 | 22 | 50 |
| DO69781063 | M10x1,5 | 17 | 22 | 50 |
| DO69781066 | M12x1,75 | 19 | 22 | 50 |



3/8" SQUAREDRIVE

VIERKANT | CARRÉ



6-POINT L = 150
6-KANT L = 150
6-PANS L = 150

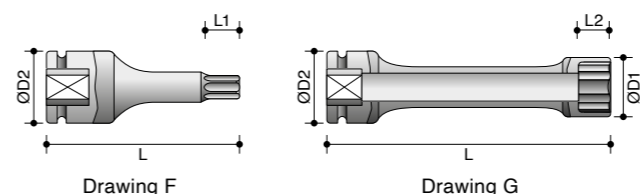
| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO60715006 | 6 G | 11 | 19 | 150 | 4 |
| DO60715008 | 8 G | 13 | 19 | 150 | 8 |
| DO60715010 | 10 G | 16 | 19 | 150 | 8 |
| DO60715012 | 12 G | 18,5 | 19 | 150 | 9 |
| DO60715013 | 13 G | 20 | 22 | 150 | 9 |
| DO60715014 | 14 G | 21 | 22 | 150 | 9 |
| DO60715015 | 15 G | 22 | 22 | 150 | 11 |
| DO60715016 | 16 G | 24 | 22 | 150 | 11 |
| DO60715017 | 17 G | 25 | 22 | 150 | 11 |
| DO60715018 | 18 G | 26 | 22 | 150 | 12 |

6-POINT L = 200
6-KANT L = 200
6-PANS L = 200

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO60716006 | 6 G | 11 | 19 | 200 | 4 |
| DO60716008 | 8 G | 13 | 19 | 200 | 8 |
| DO60716010 | 10 G | 16 | 19 | 200 | 8 |
| DO60716012 | 12 G | 18,5 | 19 | 200 | 9 |
| DO60716013 | 13 G | 20 | 22 | 200 | 9 |
| DO60716014 | 14 G | 21 | 22 | 200 | 9 |
| DO60716015 | 15 G | 22 | 22 | 200 | 11 |
| DO60716016 | 16 G | 24 | 22 | 200 | 11 |
| DO60716017 | 17 G | 25 | 22 | 200 | 11 |

6-POINT L = 250
6-KANT L = 250
6-PANS L = 250

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO60717006 | 6 G | 11 | 19 | 250 | 4 |
| DO60717008 | 8 G | 13 | 19 | 250 | 8 |
| DO60717010 | 10 G | 16 | 19 | 250 | 8 |
| DO60717012 | 12 G | 18,5 | 19 | 250 | 9 |
| DO60717013 | 13 G | 20 | 22 | 250 | 9 |
| DO60717014 | 14 G | 21 | 22 | 250 | 9 |
| DO60717015 | 15 G | 22 | 22 | 250 | 11 |
| DO60717016 | 16 G | 24 | 22 | 250 | 11 |
| DO60717017 | 17 G | 25 | 22 | 250 | 11 |



SURFACE DRIVE NORMAL
SURFACE DRIVE NORMAL
SURFACE DRIVE NORMALE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO63415008 | 8 A | 13,8 | 19 | 32 | 8 |
| DO63415009 | 9 A | 15 | 19 | 32 | 8 |
| DO63415010 | 10 A | 16 | 19 | 32 | 8 |
| DO63415011 | 11 A | 17,5 | 19 | 32 | 9 |
| DO63415012 | 12 B | 19 | 19 | 32 | 9 |
| DO63415013 | 13 A | 20 | 22 | 32 | 9 |
| DO63415014 | 14 B | 22 | 22 | 32 | 9 |
| DO63415015 | 15 B | 22 | 22 | 32 | 11 |
| DO63415016 | 16 C | 24 | 22 | 32 | 11 |
| DO63415017 | 17 C | 25 | 22 | 32 | 11 |
| DO63415018 | 18 C | 26 | 22 | 32 | 11 |
| DO63415019 | 19 C | 28 | 22 | 32 | 11 |

SURFACE DRIVE NORMAL
SURFACE DRIVE NORMAL
SURFACE DRIVE NORMALE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|--------------------|---------|-------|-------|------|-------|
| SAE · Zoll · Pouce | | | | | |
| DO63410008 | 1/4" | 11,5 | 19 | 32 | 4 |
| DO63410010 | 5/16" | 13,8 | 19 | 32 | 8 |
| DO63410012 | 3/8" | 15,5 | 19 | 32 | 8 |
| DO63410014 | 7/16" | 17,5 | 19 | 32 | 9 |
| DO63410016 | 1/2" | 20 | 22 | 32 | 9 |
| DO63410018 | 9/16" | 22 | 22 | 32 | 11 |
| DO63410020 | 5/8" | 24 | 22 | 32 | 11 |
| DO63410022 | 11/16" | 26 | 22 | 32 | 11 |
| DO63410024 | 3/4" | 28 | 22 | 32 | 11 |

TORX®INTERNAL
TORX®INNEN
TORX®INTÉRIEURE

| Type | Drawing | D2 mm | L mm | L1 mm | - |
|------------|---------|-------|------|-------|---|
| DO64711009 | T9 | 19 | 50 | 2,8 | - |
| DO64711010 | T10 | 19 | 50 | 2,8 | - |
| DO64711015 | T15 | 19 | 50 | 2,8 | - |
| DO64711020 | T20 | 19 | 50 | 3,0 | - |
| DO64711025 | T25 | 19 | 50 | 3,0 | - |
| DO64711027 | T27 | 19 | 50 | 3,8 | - |
| DO64711030 | T30 | 19 | 50 | 3,8 | - |
| DO64711040 | T40 | 19 | 50 | 4,3 | - |
| DO64711045 | T45 | 19 | 50 | 5,0 | - |
| DO64711047 | T47 | 19 | 50 | 5,0 | - |
| DO64711050 | T50 | 19 | 50 | 5,5 | - |

3/8" SQUARE DRIVE

VIERKANT | CARRÉ



SURFACE DRIVE DEEP SURFACE DRIVE TIEF SURFACE DRIVE PROFONDE

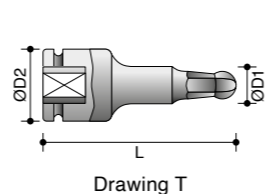
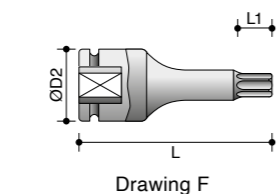
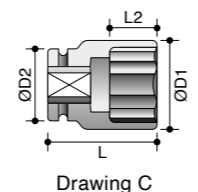
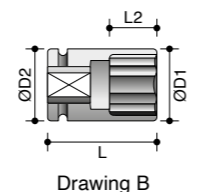
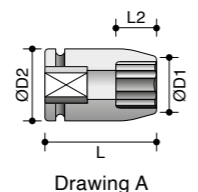
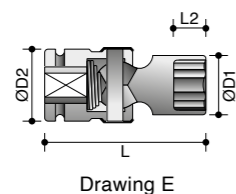
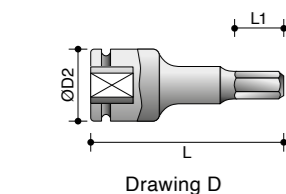
| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | |
| DO63417008 | 8 | A | 13,8 | 19 | 80 |
| DO63417009 | 9 | A | 15 | 19 | 80 |
| DO63417010 | 10 | A | 16 | 19 | 80 |
| DO63417011 | 11 | A | 17,5 | 19 | 80 |
| DO63417012 | 12 | B | 19 | 19 | 80 |
| DO63417013 | 13 | A | 20 | 22 | 80 |
| DO63417014 | 14 | B | 22 | 22 | 80 |
| DO63417015 | 15 | B | 22 | 22 | 80 |
| DO63417016 | 16 | C | 24 | 22 | 80 |
| DO63417017 | 17 | C | 25 | 22 | 80 |
| DO63417018 | 18 | C | 26 | 22 | 80 |
| DO63417019 | 19 | C | 28 | 22 | 80 |

SURFACE DRIVE DEEP SURFACE DRIVE TIEF SURFACE DRIVE PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|--------------------|---------|-------|-------|------|-------|
| SAE · Zoll · Pouce | | | | | |
| DO63412010 | 5/16" | A | 13,8 | 19 | 80 |
| DO63412012 | 3/8" | A | 15,5 | 19 | 80 |
| DO63412014 | 7/16" | A | 17,5 | 19 | 80 |
| DO63412016 | 1/2" | A | 20 | 22 | 80 |
| DO63412018 | 9/16" | B | 22 | 22 | 80 |
| DO63412020 | 5/8" | C | 24 | 22 | 80 |
| DO63412022 | 11/16" | C | 26 | 22 | 80 |
| DO63412024 | 3/4" | C | 28 | 22 | 80 |

TORX® TAMPER RESISTANT INTERNAL TORX® TAMPER RESISTANT INNEN TORX® TAMPER RESISTANT INTÉRIEURE

| Type | Drawing | D2 mm | L mm | L1 mm | - |
|------------|---------|-------|------|-------|-----|
| DO64716020 | T20 | F | 19 | 50 | 3,0 |
| DO64716025 | T25 | F | 19 | 50 | 3,0 |
| DO64716027 | T27 | F | 19 | 50 | 3,8 |
| DO64716030 | T30 | F | 19 | 50 | 3,8 |
| DO64716040 | T40 | F | 19 | 50 | 4,3 |
| DO64716045 | T45 | F | 19 | 50 | 5,0 |
| DO64716047 | T47 | F | 19 | 50 | 5,0 |
| DO64716050 | T50 | F | 19 | 50 | 5,5 |
| DO64716055 | T55 | F | 19 | 50 | 5,5 |



TORX® EXTERNAL TORX® AUSSEN TORX® EXTÉRIEURE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|------------|---------|-------|-------|------|-------|
| DO63310005 | E5 | A | 9 | 19 | 32 |
| DO63310006 | E6 | A | 10 | 19 | 32 |
| DO63310007 | E7 | A | 10 | 19 | 32 |
| DO63310008 | E8 | A | 10,5 | 19 | 32 |
| DO63310010 | E10 | A | 12,5 | 19 | 32 |
| DO63310011 | E11 | A | 14,5 | 19 | 32 |
| DO63310012 | E12 | A | 15 | 19 | 32 |
| DO63310014 | E14 | A | 17,5 | 19 | 32 |
| DO63310016 | E16 | B | 19 | 19 | 32 |
| DO63310018 | E18 | B | 21 | 21 | 34 |

TORX® EXTERNAL MAGNETIC TORX® AUSSEN MAGNETISCH TORX® EXTÉRIEURE MAGNÉTIQUE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|------------|---------|-------|-------|------|-------|
| DO6331N008 | E8 | A | 11,5 | 19 | 32 |
| DO6331N010 | E10 | A | 13,5 | 19 | 32 |
| DO6331N011 | E11 | A | 14 | 19 | 32 |
| DO6331N012 | E11 | A | 15,5 | 19 | 32 |
| DO6332N014 | E14 | A | 17,5 | 19 | 32 |
| DO6332N016 | E16 | A | 19 | 19 | 32 |
| DO6332N018 | E18 | A | 21 | 21 | 32 |

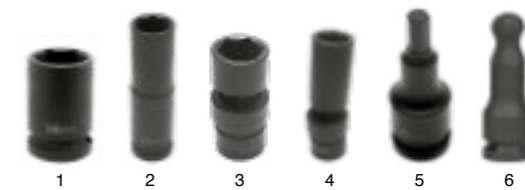
TORX® THIN WALL EXTERNAL TORX® DÜNNWANDIG AUSSEN TORX® À PAROI MINCE EXTÉRIEURE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|------------|---------|-------|-------|------|-------|
| DO63315005 | E5 | A | 8 | 19 | 32 |
| DO63315006 | E6 | A | 9 | 19 | 32 |
| DO63315007 | E7 | A | 9,3 | 19 | 32 |
| DO63315008 | E8 | A | 10 | 19 | 32 |
| DO63315010 | E10 | A | 12,3 | 19 | 32 |
| DO63315011 | E11 | A | 13 | 19 | 32 |
| DO63315012 | E12 | A | 14 | 19 | 32 |
| DO63315014 | E14 | A | 16,5 | 19 | 32 |
| DO63315016 | E16 | A | 18,4 | 19 | 32 |

Thin wall sockets are not included in the Action warranty.

3/8" SQUARE DRIVE

VIERKANT | CARRÉ



6-POINT THIN WALL NORMAL 6-KANT DÜNNWANDIG NORMAL 6-PANS À PAROI MINCE NORMALES

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | |
| DO61110006 | 6 | A | 10,5 | 19 | 30 |
| DO61110007 | 7 | A | 11,5 | 19 | 30 |
| DO61110008 | 8 | A | 12,5 | 19 | 30 |
| DO61110009 | 9 | A | 14 | 19 | 30 |
| DO61110010 | 10 | A | 15 | 19 | 30 |
| DO61110011 | 11 | A | 17 | 19 | 30 |
| DO61110012 | 12 | A | 17,5 | 19 | 30 |
| DO61110013 | 13 | B | 19 | 19 | 30 |
| DO61110014 | 14 | B | 20 | 20 | 30 |

Thin wall sockets are not included in the Action warranty.

6-POINT THIN WALL DEEP 6-KANT DÜNNWANDIG TIEF 6-PANS À PAROI MINCE PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | |
| DO61112007 | 7 | A | 11,5 | 19 | 65 |
| DO61112008 | 8 | A | 12,5 | 19 | 65 |
| DO61112009 | 9 | A | 14 | 19 | 65 |
| DO61112010 | 10 | A | 15 | 19 | 65 |
| DO61112011 | 11 | A | 17 | 19 | 65 |
| DO61112012 | 12 | A | 17,5 | 19 | 65 |
| DO61112013 | 13 | B | 19 | 19 | 65 |
| DO61112014 | 14 | B | 20 | 20 | 65 |
| DO61112015 | 15 | A | 21 | 22 | 65 |
| DO61112016 | 16 | C | 22,5 | 22 | 65 |
| DO61112017 | 17 | C | 24 | 22 | 65 |
| DO61112018 | 18 | C | 25 | 22 | 65 |
| DO61112019 | 19 | C | 26 | 22 | 65 |
| DO61112020 | 20 | C | 27 | 22 | 65 |
| DO61112021 | 21 | C | 28 | 22 | 65 |
| DO61112022 | 22 | C | 30 | 23 | 65 |

Thin wall sockets are not included in the Action warranty.

6-POINT UNIVERSAL JOINT 6-KANT KUGELGELENKSCHLÜSSEL 6-PANS CARDAN NORMALE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|--------------|---------|-------|-------|------|-------|
| DO1038-2-009 | 9 | E | 15 | 24 | 53 |
| DO1038-2-010 | 10 | E | 15 | 24 | 53 |
| DO1038-2-011 | 11 | E | 17 | 24 | 53 |
| DO1038-2-012 | 12 | E | 19 | 24 | 53 |
| DO1038-2-013 | 13 | E | 19 | 24 | 53 |
| DO1038-2-014 | 14 | E | 21 | 24 | 53 |
| DO1038-2-015 | 15 | E | 22 | 24 | 53 |
| DO1038-2-016 | 16 | E | 23 | 24 | 53 |
| DO1038-2-017 | 17 | E | 25 | 24 | 53 |
| DO1038-2-018 | 18 | E | 25 | 24 | 53 |
| DO1038-2-019 | 19 | E | 27 | 24 | 53 |
| DO1038-2-020 | 20 | E | 30 | 24 | 53 |
| DO1038-2-021 | 21 | E | 30 | 24 | 53 |
| DO1038-2-022 | 22 | E | 32 | 24 | 53 |

6-POINT UNIVERSAL JOINT DEEP 6-KANT KUGELGELENKSCHLÜSSEL TIEF 6-PANS CARDAN PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | |
| DO1038-4-009 | 9 | E | 15 | 24 | 78 |
| DO1038-4-010 | 10 | E | 15 | 24 | 78 |
| DO1038-4-011 | 11 | E | 17 | 24 | 80 |
| DO1038-4-012 | 12 | E | 19 | 24 | 80 |
| DO1038-4-013 | 13 | E | 19 | 24 | 80 |
| DO1038-4-014 | 14 | E | 21 | 24 | 80 |
| DO1038-4-015 | 15 | E | 22 | 24 | 80 |
| DO1038-4-016 | 16 | E | 23 | 24 | 80 |
| DO1038-4-017 | 17 | E | 25 | 24 | 80 |
| DO1038-4-018 | 18 | E | 25 | 24 | 80 |
| DO1038-4-019 | 19 | E | 27 | 24 | 80 |
| DO1038-4-020 | 20 | E | 30 | 24 | 80 |
| DO1038-4-021 | 21 | E | 30 | 24 | 80 |
| DO1038-4-022 | 22 | E | 32 | 24 | 80 |

Universal joint sockets are not included in the Action warranty.

HEX DRIVER (INBUS) AUSSEN-6-KANT (INBUS) CARDAN EMPREINTE 6-PANS (INBUS)

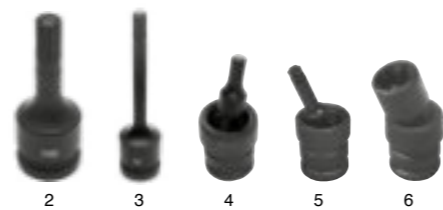
| Type | Drawing | D2 mm | L mm | L1 mm | - |
|---------------------------------|---------|-------|------|-------|----|
| Metrical · Metrisch · Metriques | | | | | |
| DO696203A | 3 | D | 19 | 50 | 11 |
| DO696204A | 4 | D | 19 | 50 | 11 |
| DO696205A | 5 | D | 19 | 50 | 11 |
| DO696206A | 6 | D | 19 | 50 | 11 |
| DO696207A | 7 | D | 19 | 50 | 16 |
| DO696208A | 8 | D | 19 | 50 | 16 |
| DO696209A | 9 | D | 19 | 50 | 16 |
| DO696210A | 10 | D | 19 | 50 | 16 |
| DO696211A | 11 | D | 19 | 50 | 16 |
| DO696212A | 12 | D | 19 | 50 | 16 |
| DO696213A | 13 | D | 19 | 50 | 16 |
| DO696214A | 14 | D | 19 | 50 | 16 |
| DO696215A | 15 | D | 19 | 50 | 16 |
| DO696216A | 16 | D | 19 | 50 | 16 |

HEX BALL DRIVER KUGELKOPF-INBUS EMBOUIT SPHÉRIQUE

| Type | Drawing | D2 mm | L mm | D1 mm | - |
|---------------------------------|---------|-------|------|-------|------|
| Metrical · Metrisch · Metriques | | | | | |
| DO6481Q004 | 4 | T | 19 | 50 | 4,8 |
| DO6481Q005 | 5 | T | 19 | 50 | 6 |
| DO6481Q006 | 6 | T | 19 | 50 | 7,1 |
| DO6481Q008 | 8 | T | 19 | 50 | 9,5 |
| DO6481Q010 | 10 | T | 19 | 50 | 11,8 |

3/8" SQUARE DRIVE

VIERKANT | CARRÉ



TRIPLE SQUARE AUSSEN-XZN CARRÉ TRIPLE

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|------------|---------|-------|------|-------|----|---|
| DO65216005 | M5 | L | 19 | 50 | 7 | - |
| DO65216006 | M6 | L | 19 | 50 | 7 | - |
| DO65216008 | M8 | L | 19 | 50 | 9 | - |
| DO65216010 | M10 | L | 19 | 50 | 9 | - |
| DO65216012 | M12 | L | 19 | 50 | 11 | - |
| DO65216014 | M14 | L | 19 | 50 | 11 | - |
| DO65216016 | M16 | L | 19 | 50 | 13 | - |

TRIPLE SQUARE LONG AUSSEN-XZN LANG CARRÉ TRIPLE LONGUE

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|------------|---------|-------|------|-------|----|---|
| DO65217005 | M5 | L | 19 | 100 | 7 | - |
| DO65217006 | M6 | L | 19 | 100 | 7 | - |
| DO65217008 | M8 | L | 19 | 100 | 9 | - |
| DO65217010 | M10 | L | 19 | 100 | 9 | - |
| DO65217012 | M12 | L | 19 | 100 | 11 | - |
| DO65217014 | M14 | L | 19 | 100 | 11 | - |
| DO65217016 | M16 | L | 19 | 100 | 13 | - |
| DO65218005 | M5 | L | 19 | 120 | 7 | - |
| DO65218006 | M6 | L | 19 | 120 | 7 | - |
| DO65218008 | M8 | L | 19 | 120 | 9 | - |
| DO65218010 | M10 | L | 19 | 120 | 9 | - |
| DO65218012 | M12 | L | 19 | 120 | 11 | - |
| DO65218014 | M14 | L | 19 | 120 | 11 | - |
| DO65218016 | M14 | L | 19 | 120 | 13 | - |

UNIVERSAL JOINT HEX DRIVER (INBUS) KUGELGELENKAUSSEN-6-KANT (INBUS) CARDAN EMPREINTE 6-PANS (INBUS)

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|------------|---------|-------|------|-------|----|---|
| DO65110005 | 5 | N | 24 | 60 | 11 | - |
| DO65110006 | 6 | N | 24 | 60 | 11 | - |
| DO65110007 | 7 | N | 24 | 60 | 15 | - |
| DO65110008 | 8 | N | 24 | 60 | 15 | - |
| DO65110009 | 9 | N | 24 | 60 | 15 | - |
| DO65110010 | 10 | N | 24 | 60 | 15 | - |
| DO65110011 | 11 | N | 24 | 60 | 15 | - |
| DO65110012 | 12 | N | 24 | 60 | 15 | - |
| DO65110013 | 13 | N | 24 | 60 | 15 | - |
| DO65110014 | 14 | N | 24 | 60 | 15 | - |
| DO65110015 | 15 | N | 24 | 60 | 15 | - |
| DO65110016 | 16 | N | 24 | 60 | 15 | - |

Universal joint sockets are not included in the Action warranty.

UNIVERSAL JOINT FOR TORX®INTERNAL KUGELGELENKSCHLÜSSEL FÜR INTERN TORX® CARDAN TORX®INTÉRIEURE

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|------------|---------|-------|------|-------|-----|---|
| DO64910020 | T20 | N | 24 | 60 | 3 | - |
| DO64910025 | T25 | N | 24 | 60 | 3 | - |
| DO64910027 | T27 | N | 24 | 60 | 3,8 | - |
| DO64910030 | T30 | N | 24 | 60 | 3,8 | - |
| DO64910040 | T40 | N | 24 | 60 | 4,3 | - |
| DO64910045 | T45 | N | 24 | 60 | 5 | - |
| DO64910047 | T47 | N | 24 | 60 | 5 | - |
| DO64910050 | T50 | N | 24 | 60 | 5,5 | - |
| DO64910055 | T55 | N | 24 | 60 | 5,5 | - |

Universal joint sockets are not included in the Action warranty.

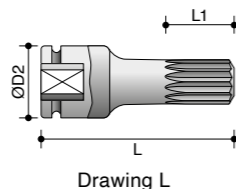
UNIVERSAL JOINT FOR TORX®EXTERNAL KUGELGELENKSCHLÜSSEL FÜR EXTERN TORX® CARDAN TORX®EXTÉRIEURE

| Type | Drawing | D2 mm | L mm | L2 mm | - | |
|------------|---------|-------|------|-------|-----|---|
| DO68710005 | E5 | E | 24 | 50 | 4,5 | - |
| DO68710006 | E6 | E | 24 | 50 | 5 | - |
| DO68710007 | E7 | E | 24 | 50 | 6 | - |
| DO68710008 | E8 | E | 24 | 50 | 6 | - |
| DO68710010 | E10 | E | 24 | 50 | 7,5 | - |
| DO68710012 | E12 | E | 24 | 50 | 8,5 | - |
| DO68710014 | E14 | E | 24 | 50 | 10 | - |
| DO68710016 | E16 | E | 24 | 50 | 11 | - |

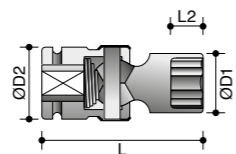
Universal joint sockets are not included in the Action warranty.

PIN & RING | RING & STIFT | JOINT TORIQUE CLAVETTE

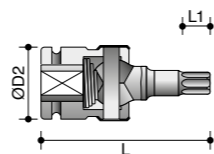
| Type |
|--------------|
| DO1038-0-000 |



Drawing L



Drawing E



Drawing N

3/8" & 1/2" SQUARE DRIVE

VIERKANT | CARRÉ



3/8" Drive | Antrieb | Carré d'entraînement

RIBE DRIVER RIBE PROFIL PROFIL RIBE

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|------------|---------|-------|------|-------|-----|---|
| DO65315005 | M5 | H | 19 | 50 | 4,5 | - |
| DO65315006 | M6 | H | 19 | 50 | 5 | - |
| DO65315007 | M7 | H | 19 | 50 | 6,5 | - |
| DO65315008 | M8 | H | 19 | 50 | 7,5 | - |
| DO65315010 | M10 | H | 19 | 50 | 9 | - |
| DO65315012 | M12 | H | 19 | 50 | 10 | - |
| DO65315014 | M14 | H | 19 | 50 | 12 | - |
| DO65315016 | M16 | H | 19 | 50 | 14 | - |

TAP HOLDER GEWINDEBOHRERHALTER DOUILLE PORTE-TARAUD

| Type | A mm | Drawing | Ø D1 mm | Ø D2 mm | Ø d mm | L mm |
|------------|------|---------|---------|---------|--------|------|
| DO6321B001 | 3,4 | J | 19 | 19 | 4,5 | 38 |
| DO6321B002 | 4,9 | J | 19 | 19 | 5 | 38 |
| DO6321B003 | 5,5 | J | 19 | 50 | 7,0 | 40 |
| DO6321B004 | 6,2 | J | 19 | 19 | 8,0 | 40 |
| DO6321B005 | 7,0 | J | 19 | 19 | 9,0 | 43 |
| DO6321B006 | 8,0 | J | 19 | 19 | 10,0 | 45 |
| DO6321B007 | 9,0 | J | 19 | 50 | 11,0 | 45 |
| DO6321B008 | 9,0 | J | 22 | 22 | 12,0 | 45 |
| DO6321B009 | 11,0 | J | 22 | 22 | 14,0 | 45 |

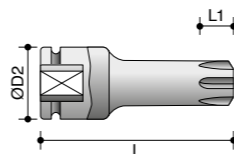
1/2" Drive | Antrieb | Carré d'entraînement

4-POINT NORMAL 4-KANT NORMAL 4-PANS NORMALE

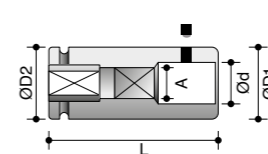
| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|------------|---------|-------|-------|------|-------|----|
| DO63125007 | 7 | A | 17,5 | 25 | 40 | 8 |
| DO63125008 | 8 | A | 19 | 25 | 40 | 9 |
| DO63125010 | 10 | A | 21,5 | 25 | 40 | 10 |
| DO63125011 | 11 | A | 23 | 25 | 40 | 11 |
| DO63125012 | 12 | A | 24 | 25 | 40 | 12 |
| DO63125013 | 13 | A | 26 | 30 | 40 | 12 |
| DO63125014 | 14 | A | 27,5 | 30 | 40 | 20 |
| DO63125015 | 15 | A | 28,5 | 30 | 40 | 20 |
| DO63125016 | 16 | B | 30 | 30 | 40 | 20 |
| DO63125017 | 17 | C | 32 | 30 | 40 | 20 |
| DO63125018 | 18 | C | 34 | 30 | 45 | 20 |
| DO63125019 | 19 | C | 36 | 30 | 45 | 20 |
| DO63125021 | 21 | C | 40 | 30 | 45 | 20 |
| DO63125022 | 22 | C | 42 | 30 | 45 | 20 |
| DO63125024 | 24 | C | 44 | 30 | 50 | 22 |
| DO63125030 | 30 | C | 53 | 30 | 50 | 22 |
| DO63125032 | 32 | C | 56 | 30 | 50 | 22 |

8-POINT 8-KANT 8-PANS

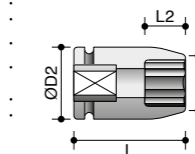
| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|--------------|---------|-------|-------|------|-------|----|
| DO2012-8-010 | 10 | A | 20 | 22 | 38 | 7 |
| DO2012-8-014 | 14 | B | 26 | 26 | 38 | 11 |
| DO2012-8-017 | 17 | B | 30 | 30 | 38 | 11 |
| DO2012-8-019 | 19 | B | 34 | 34 | 40 | 13 |
| DO2012-8-022 | 22 | B | 38 | 38 | 40 | 15 |
| DO2012-8-024 | 24 | B | 42 | 38 | 45 | 18 |
| DO2012-8-027 | 27 | B | 46,5 | 46,5 | 50 | 19 |
| DO2012-8-028 | 28 | B | 49 | 49 | 50 | 19 |



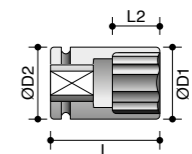
Drawing H



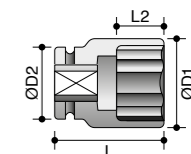
Drawing J



Drawing A



Drawing B



Drawing C

1/2" SQUARE DRIVE

VIERKANT | CARRÉ



6-POINT NORMAL
6-KANT NORMAL
6-PANS NORMALE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | |
| DO2012-0-008 | 8 A | 14,5 | 25 | 38 | 9 |
| DO2012-0-009 | 9 A | 16 | 25 | 38 | 12 |
| DO2012-0-010 | 10 A | 17 | 25 | 38 | 12 |
| DO2012-0-011 | 11 A | 19 | 25 | 38 | 12 |
| DO2012-0-012 | 12 A | 20 | 24 | 38 | 12 |
| DO2012-0-013 | 13 A | 21 | 25 | 38 | 12 |
| DO2012-0-014 | 14 A | 22 | 25 | 38 | 12 |
| DO2012-0-015 | 15 A | 24 | 30 | 38 | 12 |
| DO2012-0-016 | 16 A | 25 | 30 | 38 | 12 |
| DO2012-0-017 | 17 A | 26 | 30 | 38 | 13 |
| DO2012-0-018 | 18 A | 27,5 | 30 | 38 | 13 |
| DO2012-0-019 | 19 A | 29 | 30 | 38 | 13 |
| DO2012-0-020 | 20 B | 30 | 30 | 38 | 13 |
| DO2012-0-021 | 21 B | 32 | 30 | 38 | 13 |
| DO2012-0-022 | 22 C | 32 | 30 | 38 | 13 |
| DO2012-0-023 | 23 C | 32,5 | 30 | 38 | 13 |
| DO2012-0-024 | 24 C | 35 | 30 | 45 | 20 |
| DO2012-0-025 | 25 C | 36 | 30 | 45 | 20 |
| DO2012-0-026 | 26 C | 37,5 | 30 | 45 | 22 |
| DO2012-0-027 | 27 C | 39 | 30 | 50 | 22 |
| DO2012-0-028 | 28 C | 40 | 30 | 50 | 22 |
| DO2012-0-029 | 29 C | 41 | 30 | 50 | 22 |
| DO2012-0-030 | 30 C | 42,5 | 30 | 50 | 22 |
| DO2012-0-032 | 32 C | 44 | 30 | 50 | 28 |
| DO2012-0-034 | 34 C | 45 | 30 | 50 | 28 |
| DO2012-0-036 | 36 C | 48 | 30 | 50 | 28 |
| DO2012-0-038 | 38 C | 53 | 38 | 50 | 24 |
| DO2012-0-041 | 41 C | 58 | 44 | 60 | 27 |
| DO2012-0-046 | 46 C | 65 | 44 | 70 | 30 |
| DO2012-0-050 | 50 C | 70 | 52 | 70 | 32 |

6-POINT NORMAL
6-KANT NORMAL
6-PANS NORMALE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|--------------------|-----------|-------|-------|------|-------|
| SAE · Zoll · Pouce | | | | | |
| DO2012-0-3/8 | 3/8" A | 16 | 22 | 38 | 12 |
| DO2012-0-7/16 | 7/16" A | 18 | 22 | 38 | 12 |
| DO2012-0-1/2 | 1/2" A | 20 | 22 | 38 | 12 |
| DO2012-0-9/16 | 9/16" A | 22 | 24 | 38 | 12 |
| DO2012-0-5/8 | 5/8" B | 25 | 25 | 38 | 12 |
| DO2012-0-11/16 | 11/16" B | 26 | 26 | 38 | 13 |
| DO2012-0-3/4 | 3/4" B | 28 | 28 | 38 | 13 |
| DO2012-0-13/16 | 13/16" B | 30 | 30 | 38 | 13 |
| DO2012-0-7/8 | 7/8" B | 32 | 32 | 38 | 13 |
| DO2012-0-15/16 | 15/16" B | 34 | 34 | 38 | 13 |
| DO2012-0-1 | 1" B | 36 | 36 | 38 | 14 |
| DO2012-0-1 1/16 | 1 1/16" B | 38 | 38 | 40 | 16 |
| DO2012-0-1 1/8 | 1 1/8" C | 40 | 38 | 40 | 16 |
| DO2012-0-1 3/16 | 1 3/16" C | 42 | 38 | 40 | 16 |
| DO2012-0-1 1/4 | 1 1/4" C | 44 | 38 | 40 | 18 |
| DO2012-0-1 3/8 | 1 3/8" C | 48,5 | 38 | 50 | 26 |
| DO2012-0-1 7/16 | 1 7/16" C | 50,5 | 38 | 50 | 26 |
| DO2012-0-1 1/2 | 1 1/2" C | 52,5 | 38 | 50 | 26 |

6-POINT NORMAL MAGNETIC
6-KANT NORMAL MAGNETISCH
6-PANS NORMALE MAGNÉTIQUE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | |
| DO6052P008 | 8 A | 15 | 25 | 38 | 3 |
| DO6052P009 | 9 A | 16 | 25 | 38 | 4 |
| DO6052P010 | 10 A | 17,5 | 25 | 38 | 4 |
| DO6052P011 | 11 A | 18,5 | 25 | 38 | 5 |
| DO6052P012 | 12 A | 20 | 25 | 38 | 5 |
| DO6052P013 | 13 A | 21 | 25 | 38 | 5 |
| DO6052P014 | 14 A | 22,5 | 25 | 38 | 6 |
| DO6052P015 | 15 A | 23,7 | 30 | 38 | 6 |
| DO6052P016 | 16 A | 25 | 30 | 38 | 6 |
| DO6052P017 | 17 A | 26,5 | 30 | 38 | 6 |
| DO6052P018 | 18 A | 27,5 | 30 | 38 | 7 |
| DO6052P019 | 19 A | 29 | 30 | 38 | 7 |
| DO6052P020 | 20 B | 30 | 30 | 38 | 7 |
| DO6052P021 | 21 C | 31 | 30 | 38 | 8 |
| DO6052P022 | 22 C | 32,5 | 30 | 38 | 8 |
| DO6052P024 | 24 C | 35 | 30 | 45 | 10 |

6-POINT DEEP
6-KANT TIEF
6-PANS PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | |
| DO2012-1-008 | 8 A | 14,5 | 25 | 78 | 13 |
| DO2012-1-009 | 9 A | 16 | 25 | 78 | 14 |
| DO2012-1-010 | 10 A | 17 | 25 | 78 | 14 |
| DO2012-1-011 | 11 A | 18 | 25 | 78 | 14 |
| DO2012-1-012 | 12 A | 19,5 | 25 | 78 | 14 |
| DO2012-1-013 | 13 A | 21 | 25 | 78 | 14 |
| DO2012-1-014 | 14 A | 22 | 25 | 78 | 17 |
| DO2012-1-015 | 15 A | 23,5 | 30 | 78 | 17 |
| DO2012-1-016 | 16 A | 23,5 | 30 | 78 | 17 |
| DO2012-1-017 | 17 A | 26 | 30 | 78 | 17 |
| DO2012-1-018 | 18 A | 26 | 30 | 78 | 17 |
| DO2012-1-019 | 19 A | 28 | 30 | 78 | 19 |
| DO2012-1-020 | 20 B | 30,5 | 30 | 78 | 19 |
| DO2012-1-021 | 21 B | 31 | 30 | 78 | 24 |
| DO2012-1-022 | 22 C | 32,5 | 30 | 78 | 24 |
| DO2012-1-023 | 23 C | 32,5 | 30 | 78 | 24 |
| DO2012-1-024 | 24 C | 35 | 30 | 78 | 24 |
| DO2012-1-025 | 25 C | 36 | 30 | 78 | 24 |
| DO2012-1-026 | 26 C | 37,5 | 30 | 78 | 24 |
| DO2012-1-027 | 27 C | 38 | 30 | 78 | 24 |
| DO2012-1-028 | 28 C | 40 | 30 | 78 | 24 |
| DO2012-1-029 | 29 C | 40 | 30 | 78 | 24 |
| DO2012-1-030 | 30 C | 42 | 30 | 78 | 24 |
| DO2012-1-031 | 31 C | 43 | 30 | 78 | 24 |
| DO2012-1-032 | 32 C | 45 | 30 | 78 | 24 |
| DO2012-1-033 | 33 C | 45 | 30 | 78 | 24 |
| DO2012-1-034 | 34 C | 45 | 30 | 78 | 24 |
| DO2012-1-035 | 35 C | 47 | 30 | 78 | 24 |
| DO2012-1-036 | 36 C | 49 | 30 | 78 | 24 |
| DO2012-1-038 | 38 C | 53 | 38 | 93 | 24 |
| DO2012-1-041 | 41 C | 58 | 44 | 93 | 58 |
| DO2012-1-046 | 46 C | 65 | 44 | 93 | 58 |

1/2" SQUARE DRIVE

VIERKANT | CARRÉ



6-POINT DEEP
6-KANT TIEF
6-PANS PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|--------------------|-----------|-------|-------|------|-------|
| SAE · Zoll · Pouce | | | | | |
| DO2012-1-3/8 | 3/8" A | 16 | 22 | 78 | 14 |
| DO2012-1-7/16 | 7/16" A | 18 | 22 | 78 | 14 |
| DO2012-1-1/2 | 1/2" A | 20 | 22 | 78 | 14 |
| DO2012-1-9/16 | 9/16" A | 22 | 24 | 78 | 17 |
| DO2012-1-5/8 | 5/8" B | 26 | 26 | 78 | 17 |
| DO2012-1-11/16 | 11/16" B | 26 | 26 | 78 | 17 |
| DO2012-1-3/4 | 3/4" B | 28 | 28 | 78 | 19 |
| DO2012-1-13/16 | 13/16" B | 30 | 30 | 78 | 24 |
| DO2012-1-7/8 | 7/8" B | 32 | 32 | 78 | 24 |
| DO2012-1-15/16 | 15/16" B | 28 | 28 | 78 | 19 |
| DO2012-1-1 | 1" B | 36 | 36 | 78 | 24 |
| DO2012-1-1 1/16 | 1 1/16" B | 38 | 38 | 78 | 24 |
| DO2012-1-1 1/8 | 1 1/8" C | 38 | 38 | 78 | 24 |
| DO2012-1-1 3/16 | 1 3/16" C | 42 | 38 | 78 | 24 |
| DO2012-1-1 1/4 | 1 1/4" C | 44 | 38 | 78 | 24 |
| DO2012-1-1 5/16 | 1 5/16" C | 45 | 38 | 78 | 24 |
| DO2012-1-1 3/8 | 1 3/8" C | 48,5 | 38 | 78 | 24 |
| DO2012-1-1 7/16 | 1 7/16" C | 50,5 | 38 | 78 | 24 |
| DO2012-1-1 1/2 | 1 1/2" C | 52,5 | 38 | 78 | 24 |

6-POINT THIN WALL NORMAL
6-KANT DÜNNWANDIG NORMAL
6-PANS PAROI MINCE NORMALES

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | |
| DO61120008 | 8 A | 13 | 25 | 38 | 6 |
| DO61120009 | 9 A | 14,5 | 25 | 38 | 6 |
| DO61120010 | 10 A | 15,5 | 25 | 38 | 7 |
| DO61120011 | 11 A | 16,7 | 25 | 38 | 8 |
| DO61120012 | 12 A | 18 | 25 | 38 | 9 |
| DO61120013 | 13 A | 19,2 | 25 | 38 | 9 |
| DO61120014 | 14 A | 21 | 25 | 38 | 11 |
| DO61120015 | 15 A | 21,7 | 30 | 38 | 11 |
| DO61120016 | 16 A | 23 | 30 | 38 | 11 |
| DO61120017 | 17 B | 24 | 30 | 38 | 11 |
| DO61120018 | 18 B | 25 | 30 | 38 | 13 |
| DO61120019 | 19 B | 26 | 30 | 38 | 13 |
| DO61120020 | 20 B | 27,5 | 30 | 38 | 13 |
| DO61120021 | 21 B | 28 | 30 | 38 | 15 |
| DO61120022 | 22 B | 29,5 | 30 | 38 | 15 |
| DO61120023 | 23 C | 30,5 | 30 | 38 | 15 |
| DO61120024 | 24 C | 32 | 30 | 45 | 18 |
| DO61120030 | 30 C | 40 | 30 | 50 | 21 |

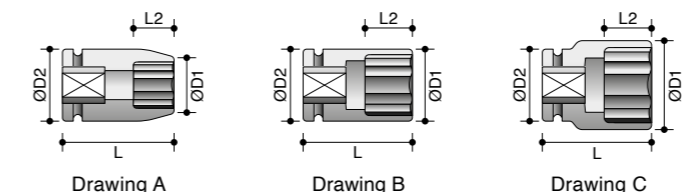
Thin wall sockets are not included in the Action warranty.

6-POINT DEEP MAGNETIC
6-KANT TIEF MAGNETISCH
6-PANS PROFONDE MAGNETQUE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | |
| DO6052R008 | 8 A | 15 | 25 | 78 | 3 |
| DO6052R009 | 9 A | 16 | 25 | 78 | 4 |
| DO6052R010 | 10 A | 17,5 | 25 | 78 | 4 |
| DO6052R011 | 11 A | 18,5 | 25 | 78 | 5 |
| DO6052R012 | 12 A | 20 | 25 | 78 | 5 |
| DO6052R013 | 13 A | 21 | 25 | 78 | 5 |
| DO6052R014 | 14 A | 22,5 | 25 | 78 | 6 |
| DO6052R015 | 15 A | 23,7 | 30 | 78 | 6 |
| DO6052R016 | 16 A | 25 | 30 | 78 | 6 |
| DO6052R017 | 17 A | 26,5 | 30 | 78 | 6 |
| DO6052R018 | 18 A | 27,5 | 30 | 78 | 7 |
| DO6052R019 | 19 A | 29 | 30 | 78 | 7 |
| DO6052R020 | 20 B | 30 | 30 | 78 | 7 |
| DO6052R021 | 21 C | 31 | 30 | 78 | 8 |
| DO6052R022 | 22 C | 32,5 | 30 | 78 | 8 |
| DO6052R024 | 24 C | 35 | 30 | 78 | 10 |

6-POINT THIN WALL DEEP
6-KANT DÜNNWANDIG TIEF
6-PANS PAROI MINCE PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | |
| DO61122008 | 8 A | 14 | 22 | 78 | 13 |
| DO61122009 | 9 A | 14,5 | 22 | 78 | 14 |
| DO61122010 | 10 A | 15,5 | 22 | 78 | 14 |
| DO61122011 | 11 A | 16,7 | 22 | 78 | 14 |
| DO61122012 | 12 A | 18 | 22 | 78 | 14 |
| DO61122013 | 13 A | 19,2 | 24 | 78 | 14 |
| DO61122014 | 14 A | 21 | 24 | 78 | 17 |
| DO61122015 | 15 A | 21,7 | 24 | 78 | 17 |
| DO61122016 | 16 A | 23 | 24 | 78 | 17 |
| DO61122017 | 17 B | 24 | 24 | 78 | 17 |
| DO61122018 | 18 B | 25 | 25 | 78 | 17 |
| DO61122019 | 19 B | 26 | 26 | 78 | 19 |
| DO61122020 | 20 B | 27,5 | 27,5 | 78 | 19 |
| DO61122021 | 21 B | 28 | 28 | 78 | 24 |
| DO61122022 | 22 B | 29,5 | 29,5 | 78 | 24 |
| DO61122023 | 23 B | 30,5 | 30,5 | 78 | 24 |
| DO61122024 | 24 B | 32 | 32 | 78 | 24 |
| DO61122025 | 25 B | 33 | 33 | 78 | 24 |
| DO61122026 | 26 B | 35 | 35 | 78 | 24 |
| DO61122027 | 27 B | 36 | 36 | 78 | 24 |
| DO61122028 | 28 B | 37,5 | 37,5 | 78 | 24 |
| DO61122030 | 30 C | 40 | 38 | 78 | 24 |
| DO61122031 | 31 C | 41 | 38 | 78 | 24 |
| DO61122032 | 32 C | 42 | 38 | 78 | 24 |



1/2" SQUAREDRIVE

VIERKANT | CARRÉ



ACTION

6-POINT L = 150
6-KANT L = 150
6-PANS L = 150

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|----|
| Metrical · Metrisch · Metriques | | | | | | |
| DO60725008 | 8 | G | 15 | 25 | 150 | 10 |
| DO60725010 | 10 | G | 17,5 | 25 | 150 | 12 |
| DO60725012 | 12 | G | 19,5 | 25 | 150 | 12 |
| DO60725013 | 13 | G | 21 | 25 | 150 | 12 |
| DO60725014 | 14 | G | 22,5 | 25 | 150 | 12 |
| DO60725015 | 15 | G | 23,5 | 30 | 150 | 12 |
| DO60725017 | 17 | G | 26 | 30 | 150 | 13 |
| DO60725019 | 19 | G | 28,5 | 30 | 150 | 13 |
| DO60725020 | 20 | G | 30 | 30 | 150 | 13 |
| DO60725021 | 21 | G | 31 | 30 | 150 | 13 |
| DO60725022 | 22 | G | 32 | 30 | 150 | 14 |
| DO60725024 | 24 | G | 34 | 30 | 150 | 14 |
| DO60725025 | 25 | G | 36 | 30 | 150 | 15 |

6-POINT THIN WALL WITH PLASTIC STOP AND SLEEVE
6-KANT DÜNNWANDIG TIEF KUNSTSTOFFBESCHICHTETE HÜLSE
6-PANS PAROI MINCE AVEC BUTREE ET MANCHON PLASTIQUE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|----|
| Metrical · Metrisch · Metriques | | | | | | |
| DO61126015 (white) | 15 | K | 22 | 30 | 85 | 13 |
| DO61126017 (blue) | 17 | K | 27 | 30 | 85 | 14 |
| DO61126019 (yellow) | 19 | K | 29 | 30 | 85 | 15 |
| DO61126021 (red) | 21 | K | 31 | 30 | 85 | 17 |
| DO61126022 (green) | 22 | K | 32,5 | 30 | 85 | 18 |
| | | | | | | |
| DO6112J017 (blue) | 17 | K | 27 | 25 | 130 | 24 |
| DO6112J019 (yellow) | 19 | K | 29 | 30 | 130 | 24 |
| DO6112J021 (red) | 21 | K | 31 | 30 | 130 | 24 |
| DO6112J022 (green) | 22 | K | 32,5 | 30 | 130 | 24 |

Thin wall sockets are not included in the Action warranty.

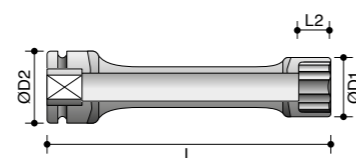
6-POINT L = 200
6-KANT L = 200
6-PANS L = 200

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|----|
| Metrical · Metrisch · Metriques | | | | | | |
| DO60726008 | 8 | G | 15 | 25 | 200 | 10 |
| DO60726010 | 10 | G | 17,5 | 25 | 200 | 12 |
| DO60726012 | 12 | G | 20 | 25 | 200 | 12 |
| DO60726013 | 13 | G | 20 | 25 | 200 | 12 |
| DO60726014 | 14 | G | 21 | 25 | 200 | 12 |
| DO60726015 | 15 | G | 23,5 | 30 | 200 | 12 |
| DO60726017 | 17 | G | 26 | 30 | 200 | 13 |
| DO60726019 | 19 | G | 28,5 | 30 | 200 | 13 |
| DO60726020 | 20 | G | 30 | 30 | 200 | 13 |
| DO60726021 | 21 | G | 31 | 30 | 200 | 13 |

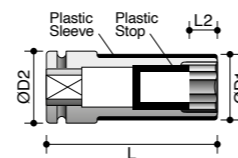


6-POINT L = 250
6-KANT L = 250
6-PANS L = 250

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|----|
| Metrical · Metrisch · Metriques | | | | | | |
| DO60727008 | 8 | G | 15 | 25 | 250 | 10 |
| DO60727010 | 10 | G | 17,5 | 25 | 250 | 12 |
| DO60727012 | 12 | G | 20 | 25 | 250 | 12 |
| DO60727013 | 13 | G | 20,5 | 25 | 250 | 12 |
| DO60727014 | 14 | G | 22,5 | 25 | 250 | 12 |
| DO60727015 | 15 | G | 23,5 | 30 | 250 | 12 |
| DO60727017 | 17 | G | 26 | 30 | 250 | 13 |
| DO60727019 | 19 | G | 28,5 | 30 | 250 | 13 |
| DO60727020 | 20 | G | 30 | 30 | 250 | 13 |
| DO60727021 | 21 | G | 31 | 30 | 250 | 13 |
| DO60727022 | 22 | G | 32 | 30 | 250 | 14 |



Drawing G



Drawing K

1/2" SQUAREDRIVE

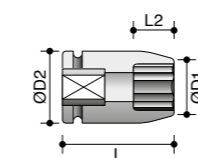
VIERKANT | CARRÉ



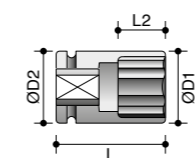
ACTION

12-POINT NORMAL
12-KANT NORMAL
12-PANS NORMALE

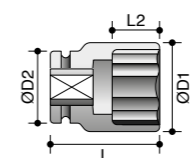
| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|----|
| Metrical · Metrisch · Metriques | | | | | | |
| DO63825006 | 6 | A | 13 | 25 | 38 | 5 |
| DO63825008 | 8 | A | 14 | 25 | 38 | 6 |
| DO63825009 | 9 | A | 16 | 25 | 38 | 6 |
| DO63825010 | 10 | A | 17,5 | 25 | 38 | 7 |
| DO63825011 | 11 | A | 19 | 25 | 38 | 8 |
| DO63825012 | 12 | A | 20 | 25 | 38 | 9 |
| DO63825013 | 13 | A | 21 | 25 | 38 | 9 |
| DO63825014 | 14 | A | 22,5 | 25 | 38 | 11 |
| DO63825015 | 15 | A | 23,5 | 30 | 38 | 11 |
| DO63825016 | 16 | A | 25 | 30 | 38 | 11 |
| DO63825017 | 17 | A | 26,5 | 30 | 40 | 11 |
| DO63825018 | 18 | A | 27,5 | 30 | 40 | 13 |
| DO63825019 | 19 | A | 29 | 30 | 40 | 13 |
| DO63825020 | 20 | B | 30 | 30 | 40 | 13 |
| DO63825021 | 21 | C | 31 | 30 | 40 | 15 |
| DO63825022 | 22 | C | 32,5 | 30 | 40 | 15 |
| DO63825023 | 23 | C | 34 | 30 | 40 | 15 |
| DO63825024 | 24 | C | 35 | 30 | 45 | 18 |
| DO63825025 | 25 | C | 36 | 30 | 45 | 18 |
| DO63825026 | 26 | C | 38 | 30 | 50 | 18 |
| DO63825027 | 27 | C | 39 | 30 | 50 | 19 |
| DO63825028 | 28 | C | 40 | 30 | 50 | 19 |
| DO63825029 | 29 | C | 41 | 30 | 50 | 19 |
| DO63825030 | 30 | C | 42,5 | 30 | 50 | 21 |
| DO63825032 | 32 | C | 44 | 30 | 50 | 22 |
| DO63825033 | 33 | C | 46,5 | 30 | 50 | 22 |
| DO63825036 | 36 | C | 50,5 | 30 | 50 | 24 |
| DO63825041 | 41 | C | 58,5 | 44 | 60 | 27 |
| DO63825046 | 46 | C | 65 | 44 | 70 | 30 |



Drawing A



Drawing B



Drawing C

12-POINT DEEP
12-KANT TIEF
12-PANS PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|----|
| Metrical · Metrisch · Metriques | | | | | | |
| DO65827006 | 6 | A | 13 | 25 | 83 | 5 |
| DO65827007 | 7 | A | 14 | 25 | 83 | 5 |
| DO65827008 | 8 | A | 15 | 25 | 83 | 6 |
| DO65827009 | 9 | A | 16 | 25 | 83 | 6 |
| DO65827010 | 10 | A | 17,5 | 25 | 83 | 7 |
| DO65827011 | 11 | A | 19 | 25 | 83 | 8 |
| DO65827012 | 12 | A | 20 | 25 | 83 | 9 |
| DO65827013 | 13 | A | 21 | 25 | 83 | 9 |
| DO65827014 | 14 | A | 22,5 | 25 | 83 | 11 |
| DO65827015 | 15 | A | 23,5 | 30 | 83 | 11 |
| DO65827016 | 16 | A | 25 | 30 | 83 | 11 |
| DO65827017 | 17 | A | 26,5 | 30 | 83 | 11 |
| DO65827018 | 18 | A | 27,5 | 30 | 83 | 13 |
| DO65827019 | 19 | A | 29 | 30 | 83 | 13 |
| DO65827020 | 20 | B | 30 | 30 | 83 | 13 |
| DO65827021 | 21 | C | 31 | 30 | 83 | 15 |
| DO65827022 | 22 | C | 32,5 | 30 | 90 | 15 |
| DO65827023 | 23 | C | 34 | 30 | 90 | 15 |
| DO65827024 | 24 | C | 35 | 30 | 90 | 18 |
| DO65827025 | 25 | C | 36 | 30 | 90 | 18 |
| DO65827026 | 26 | C | 38 | 30 | 90 | 18 |
| DO65827027 | 27 | C | 39 | 30 | 90 | 19 |
| DO65827028 | 28 | C | 40 | 30 | 90 | 19 |
| DO65827029 | 29 | C | 41 | 30 | 90 | 19 |
| DO65827030 | 30 | C | 42,5 | 30 | 90 | 21 |
| DO65827031 | 31 | C | 44 | 30 | 90 | 21 |
| DO65827032 | 32 | C | 45 | 30 | 90 | 22 |
| DO65827033 | 33 | C | 46,5 | 30 | 90 | 22 |
| DO65827034 | 34 | C | 48 | 30 | 90 | 22 |
| DO65827035 | 35 | C | 49,5 | 30 | 90 | 22 |
| DO65827036 | 36 | C | 50,5 | 30 | 90 | 24 |
| DO65827038 | 38 | C | 53 | 38 | 90 | 24 |
| DO65827039 | 39 | C | 54,5 | 44 | 93 | 24 |
| DO65827040 | 40 | C | 56 | 44 | 93 | 58 |
| DO65827041 | 41 | C | 58 | 44 | 93 | 58 |
| DO65827042 | 42 | C | 60 | 44 | 93 | 58 |
| DO65827043 | 43 | C | 61 | 44 | 93 | 58 |
| DO65827044 | 44 | C | 63 | 44 | 93 | 58 |
| DO65827045 | 45 | C | 64 | 44 | 93 | 58 |
| DO65827046 | 46 | C | 65 | 44 | 93 | 58 |
| DO65827047 | 47 | C | 66,5 | 44 | 93 | 58 |
| DO65827048 | 48 | C | 68 | 44 | 93 | 58 |
| DO65827049 | 49 | C | 69 | 44 | 93 | 58 |
| DO65827050 | 50 | C | 70 | 52 | 93 | 58 |
| DO65827052 | 52 | C | 72,5 | 52 | 93 | 58 |
| DO65827054 | 54 | C | 75 | 52 | 93 | 58 |
| DO65827056 | 56 | C | 77 | 52 | 93 | 58 |
| DO65827057 | 57 | C | 78 | 52 | 93 | 58 |
| DO65827058 | 58 | C | 79 | 52 | 93 | 58 |

1/2" SQUARE DRIVE

VIERKANT | CARRÉ



1 SURFACE DRIVE NORMAL
SURFACE DRIVE NORMAL
SURFACE DRIVE NORMALE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO63425010 | 10 A | 17,5 | 25 | 38 | 12 |
| DO63425011 | 11 A | 18,7 | 25 | 38 | 12 |
| DO63425012 | 12 A | 20 | 25 | 38 | 12 |
| DO63425013 | 13 A | 21 | 25 | 38 | 12 |
| DO63425014 | 14 A | 22,5 | 25 | 38 | 12 |
| DO63425015 | 15 A | 23,7 | 30 | 38 | 12 |
| DO63425016 | 16 A | 25 | 30 | 38 | 12 |
| DO63425017 | 17 A | 26 | 30 | 38 | 13 |
| DO63425018 | 18 A | 27,5 | 30 | 38 | 13 |
| DO63425019 | 19 A | 28,7 | 30 | 38 | 13 |
| DO63425020 | 20 B | 30 | 30 | 38 | 13 |
| DO63425021 | 21 B | 30 | 30 | 38 | 13 |
| DO63425022 | 22 C | 32 | 30 | 38 | 13 |
| DO63425023 | 23 C | 32 | 30 | 38 | 13 |
| DO63425024 | 24 C | 35 | 30 | 45 | 20 |
| DO63425026 | 26 C | 38 | 30 | 50 | 22 |
| DO63425027 | 27 C | 38,7 | 30 | 50 | 22 |
| DO63425029 | 29 C | 40 | 30 | 50 | 22 |
| DO63425030 | 30 C | 42 | 30 | 50 | 22 |
| DO63425032 | 32 C | 44 | 30 | 50 | 22 |

2 SURFACE DRIVE DEEP
SURFACE DRIVE TIEF
SURFACE DRIVE PROFONDE

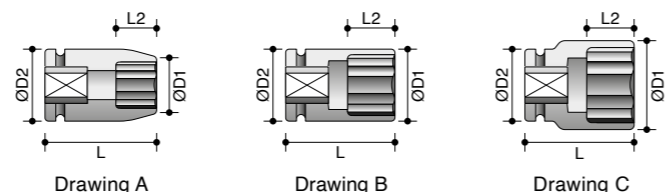
| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO63427010 | 10 A | 17,5 | 25 | 83 | 14 |
| DO63427011 | 11 A | 18,7 | 25 | 83 | 14 |
| DO63427012 | 12 A | 20 | 25 | 83 | 14 |
| DO63427013 | 13 A | 21 | 25 | 83 | 14 |
| DO63427014 | 14 A | 22,5 | 25 | 83 | 17 |
| DO63427015 | 15 A | 23,7 | 30 | 83 | 17 |
| DO63427016 | 16 A | 25 | 30 | 83 | 17 |
| DO63427017 | 17 A | 26 | 30 | 83 | 17 |
| DO63427018 | 18 A | 27,5 | 30 | 83 | 17 |
| DO63427019 | 19 A | 28,7 | 30 | 83 | 19 |
| DO63427020 | 20 B | 30 | 30 | 83 | 19 |
| DO63427021 | 21 B | 30 | 30 | 83 | 24 |
| DO63427022 | 22 C | 32 | 30 | 90 | 24 |
| DO63427023 | 23 C | 32 | 30 | 90 | 24 |
| DO63427024 | 24 C | 35 | 30 | 90 | 24 |
| DO63427026 | 26 C | 38 | 30 | 90 | 24 |
| DO63427027 | 27 C | 38,7 | 30 | 90 | 24 |
| DO63427029 | 29 C | 40 | 30 | 90 | 24 |
| DO63427030 | 30 C | 42 | 30 | 90 | 24 |
| DO63427032 | 32 C | 44 | 30 | 90 | 24 |

3 TORX®INTERNAL
TORX®INNEN
TORX®INTÉRIEURE

| Type | Drawing | D2 mm | L mm | L1 mm | - |
|------------|---------|-------|------|-------|---|
| DO64721020 | T20 F | 25 | 55 | 2,8 | - |
| DO64721025 | T25 F | 25 | 55 | 3,0 | - |
| DO64721027 | T27 F | 25 | 55 | 3,0 | - |
| DO64721030 | T30 F | 25 | 55 | 3,8 | - |
| DO64721040 | T40 F | 25 | 55 | 3,8 | - |
| DO64721045 | T45 F | 25 | 55 | 4,3 | - |
| DO64721047 | T47 F | 25 | 55 | 5,0 | - |
| DO64721050 | T50 F | 25 | 55 | 5,0 | - |
| DO64721055 | T55 F | 25 | 55 | 5,5 | - |
| DO64721060 | T60 F | 25 | 55 | 8,0 | - |
| DO64721070 | T70 F | 25 | 55 | 9,4 | - |

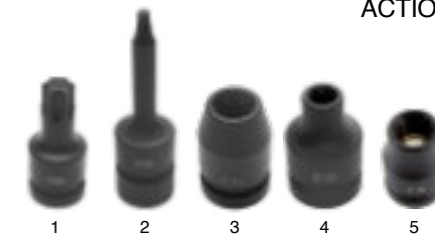
4 TORX®INTERNAL LONG
TORX®INNEN LANG
TORX®INTÉRIEURE LONGUE

| Type | Drawing | D2 mm | L mm | L1 mm | - |
|------------|---------|-------|------|-------|---|
| DO64722020 | T20 F | 25 | 75 | 2,8 | - |
| DO64722025 | T25 F | 25 | 75 | 3,0 | - |
| DO64722027 | T27 F | 25 | 75 | 3,0 | - |
| DO64722030 | T30 F | 25 | 75 | 3,8 | - |
| DO64722040 | T40 F | 25 | 75 | 3,8 | - |
| DO64722045 | T45 F | 25 | 75 | 4,3 | - |
| DO64722047 | T47 F | 25 | 75 | 5,0 | - |
| DO64722050 | T50 F | 25 | 75 | 5,0 | - |
| DO64722055 | T55 F | 25 | 75 | 5,5 | - |
| DO64722060 | T60 F | 25 | 75 | 8,0 | - |
| DO64722070 | T70 F | 25 | 75 | 9,4 | - |
| DO64725025 | T25 F | 25 | 150 | 3,0 | - |
| DO64725027 | T27 F | 25 | 150 | 3,0 | - |
| DO64725030 | T30 F | 25 | 150 | 3,8 | - |
| DO64725040 | T40 F | 25 | 150 | 3,8 | - |
| DO64725045 | T45 F | 25 | 150 | 4,3 | - |



1/2" SQUARE DRIVE

VIERKANT | CARRÉ



1 TORX®TAMPER RESISTANT INTERNAL
TORX®TAMPER RESISTANT INNEN
TORX®TAMPER RESISTANT INTÉRIEURE

| Type | Drawing | D2 mm | L mm | L1 mm | - |
|------------|---------|-------|------|-------|---|
| DO64726020 | T20 F | 25 | 55 | 2,8 | - |
| DO64726025 | T25 F | 25 | 55 | 3,0 | - |
| DO64726027 | T27 F | 25 | 55 | 3,0 | - |
| DO64726030 | T30 F | 25 | 55 | 3,8 | - |
| DO64726040 | T40 F | 25 | 55 | 3,8 | - |
| DO64726045 | T45 F | 25 | 55 | 4,3 | - |
| DO64726047 | T47 F | 25 | 55 | 5,0 | - |
| DO64726050 | T50 F | 25 | 55 | 5,0 | - |
| DO64726055 | T55 F | 25 | 55 | 5,5 | - |
| DO64726060 | T60 F | 25 | 55 | 8,0 | - |
| DO64726070 | T70 F | 25 | 55 | 9,4 | - |

2 TORX®TAMPER RESISTANT INTERNAL LONG
TORX®TAMPER RESISTANT INNEN LANG
TORX®TAMPER RESISTANT INTÉRIEURE LONGUE

| Type | Drawing | D2 mm | L mm | L1 mm | - |
|------------|---------|-------|------|-------|---|
| DO64727020 | T20 F | 25 | 75 | 2,8 | - |
| DO64727025 | T25 F | 25 | 75 | 3,0 | - |
| DO64727027 | T27 F | 25 | 75 | 3,0 | - |
| DO64727030 | T30 F | 25 | 75 | 3,8 | - |
| DO64727040 | T40 F | 25 | 75 | 3,8 | - |
| DO64727045 | T45 F | 25 | 75 | 4,3 | - |
| DO64727047 | T47 F | 25 | 75 | 5,0 | - |
| DO64727050 | T50 F | 25 | 75 | 5,0 | - |
| DO64727055 | T55 F | 25 | 75 | 5,5 | - |
| DO64727060 | T60 F | 25 | 75 | 8,0 | - |
| DO64727070 | T70 F | 25 | 75 | 9,4 | - |

3 TORX®EXTERNAL
TORX®AUSSEN
TORX®EXTÉRIEURE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|------------|---------|-------|-------|------|-------|
| DO63320010 | E10 A | 15 | 25 | 38 | 7,5 |
| DO63320011 | E11 A | 15,5 | 25 | 38 | 8 |
| DO63320012 | E12 A | 16 | 25 | 38 | 8,5 |
| DO63320014 | E14 A | 18,5 | 25 | 38 | 10 |
| DO63320016 | E16 A | 20 | 25 | 38 | 11 |
| DO63320018 | E18 A | 22 | 25 | 38 | 12 |
| DO63320020 | E20 A | 25 | 30 | 38 | 13,5 |
| DO63320022 | E22 A | 26,5 | 30 | 45 | 18 |
| DO63320024 | E24 A | 28,5 | 30 | 45 | 18 |

4 TORX®THIN WALL EXTERNAL
TORX®DÜNNWANDIG AUSSEN
TORX®À PAROI MINCE EXTÉRIEURE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|------------|---------|-------|-------|------|-------|
| DO63325010 | E10 A | 13 | 25 | 38 | 7,5 |
| DO63325011 | E11 A | 14 | 25 | 38 | 8 |
| DO63325012 | E12 A | 15 | 25 | 38 | 8,5 |
| DO63325014 | E14 A | 17 | 25 | 38 | 10 |
| DO63325016 | E16 A | 18,5 | 25 | 38 | 11 |
| DO63325018 | E18 A | 20,5 | 25 | 38 | 12 |
| DO63325020 | E20 A | 22,5 | 30 | 38 | 13,5 |
| DO63325022 | E22 A | 24,5 | 30 | 45 | 18 |
| DO63325024 | E24 A | 26,5 | 30 | 45 | 18 |

Thin wall sockets are not included in the Action warranty.

5 TORX®EXTERNAL MAGNETIC
TORX®AUSSEN MAGNETISCH
TORX®EXTÉRIEURE MAGNÉTIQUE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|------------|---------|-------|-------|------|-------|
| DO6332N010 | E10 A | 14,5 | 25 | 38 | 5 |
| DO6332N011 | E11 A | 15 | 25 | 38 | 5 |
| DO6332N012 | E12 A | 16 | 25 | 38 | 6 |
| DO6332N014 | E14 A | 18 | 25 | 38 | 8 |
| DO6332N016 | E16 A | 20 | 25 | 38 | 9 |
| DO6332N018 | E18 A | 22 | 25 | 38 | 9 |
| DO6332N020 | E20 A | 25 | 30 | 38 | 10 |
| DO6332N022 | E22 A | 27 | 30 | 45 | 10 |
| DO6332N024 | E24 A | 29 | 30 | 45 | 11 |

Torx® is a trademark of Textron.



1/2" SQUARE DRIVE

VIERKANT | CARRÉ



6-POINT UNIVERSAL JOINT NORMAL 6-KANT KUGELGELENKSSCHLÜSSELNORMAL 6-PANS CARDAN NORMALES

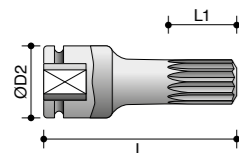
| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|----|
| Metrical · Metrisch · Métriques | | | | | | |
| DO2012-2-010 | 10 | E | 15 | 28 | 65 | 14 |
| DO2012-2-011 | 11 | E | 17 | 28 | 65 | 14 |
| DO2012-2-012 | 12 | E | 19 | 28 | 65 | 14 |
| DO2012-2-013 | 13 | E | 20 | 28 | 65 | 14 |
| DO2012-2-014 | 14 | E | 22 | 28 | 65 | 14 |
| DO2012-2-015 | 15 | E | 23 | 28 | 65 | 14 |
| DO2012-2-016 | 16 | E | 23 | 28 | 65 | 14 |
| DO2012-2-017 | 17 | E | 26 | 32 | 65 | 14 |
| DO2012-2-018 | 18 | E | 26 | 32 | 65 | 14 |
| DO2012-2-019 | 19 | E | 28 | 32 | 65 | 14 |
| DO2012-2-020 | 20 | E | 30 | 32 | 65 | 14 |
| DO2012-2-021 | 21 | E | 30 | 32 | 65 | 14 |
| DO2012-2-022 | 22 | E | 32 | 32 | 65 | 14 |
| DO2012-2-023 | 23 | E | 32 | 32 | 65 | 14 |
| DO2012-2-024 | 24 | E | 34 | 32 | 65 | 14 |

Universal joint sockets are not included in the Action warranty.

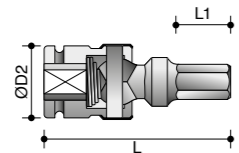
6-POINT UNIVERSAL JOINT DEEP 6-KANT KUGELGELENKSSCHLÜSSEL TIEF 6-PANS CARDAN PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|----|
| Metrical · Metrisch · Métriques | | | | | | |
| DO2012-4-010 | 10 | E | 15 | 28 | 90 | 14 |
| DO2012-4-011 | 11 | E | 17 | 28 | 90 | 20 |
| DO2012-4-012 | 12 | E | 19 | 28 | 90 | 20 |
| DO2012-4-013 | 13 | E | 20 | 28 | 90 | 20 |
| DO2012-4-014 | 14 | E | 22 | 28 | 90 | 20 |
| DO2012-4-015 | 15 | E | 23 | 28 | 90 | 20 |
| DO2012-4-016 | 16 | E | 23 | 28 | 90 | 20 |
| DO2012-4-017 | 17 | E | 26 | 32 | 90 | 20 |
| DO2012-4-018 | 18 | E | 26 | 32 | 90 | 20 |
| DO2012-4-019 | 19 | E | 28 | 32 | 90 | 25 |
| DO2012-4-020 | 20 | E | 30 | 32 | 90 | 25 |
| DO2012-4-021 | 21 | E | 30 | 32 | 90 | 25 |
| DO2012-4-022 | 22 | E | 32 | 32 | 90 | 25 |
| DO2012-4-023 | 23 | E | 32 | 32 | 90 | 25 |
| DO2012-4-024 | 24 | E | 34 | 32 | 90 | 25 |

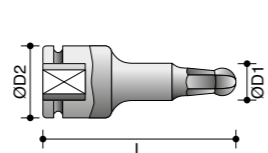
Universal joint sockets are not included in the Action warranty.



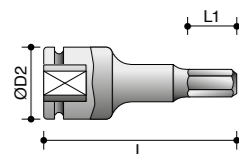
Drawing L



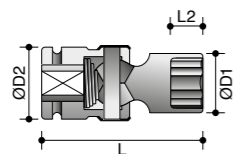
Drawing M



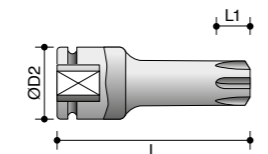
Drawing T



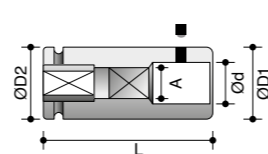
Drawing D



Drawing E



Drawing H



Drawing J

UNIVERSAL JOINT FOR TORX®INTERNAL KUGELGELENKSSCHLÜSSEL FÜR INNEN TORX® CARDAN TORX®INTÉRIEURE

| Type | Drawing | D1 mm | L mm | L1 mm | - | |
|------------|---------|-------|------|-------|-----|---|
| DO64921025 | T25 | M | 28 | 70 | 3 | - |
| DO64921027 | T27 | M | 28 | 70 | 3 | - |
| DO64921030 | T30 | M | 28 | 70 | 3,8 | - |
| DO64921040 | T40 | M | 28 | 70 | 3,8 | - |
| DO64921045 | T45 | M | 28 | 70 | 4,3 | - |
| DO64921047 | T47 | M | 28 | 70 | 5 | - |
| DO64921050 | T50 | M | 28 | 70 | 5 | - |
| DO64921055 | T55 | M | 28 | 70 | 5,5 | - |
| DO64921060 | T60 | M | 28 | 70 | 8 | - |

Universal joint sockets are not included in the Action warranty.

UNIVERSAL JOINT FOR TORX®EXTERNAL KUGELGELENKSSCHLÜSSEL FÜR TORX®AUSSEN CARDAN TORX®EXTÉRIEURE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|------------|---------|-------|-------|------|-------|------|
| DO68720010 | E10 | E | 13 | 28 | 65 | 7,5 |
| DO68720011 | E11 | E | 14 | 28 | 65 | 8,0 |
| DO68720012 | E12 | E | 15 | 28 | 65 | 8,5 |
| DO68720014 | E14 | E | 17 | 28 | 65 | 10 |
| DO68720016 | E16 | E | 18,5 | 28 | 65 | 11 |
| DO68720018 | E18 | E | 20,5 | 28 | 65 | 12 |
| DO68720020 | E20 | E | 22,5 | 32 | 70 | 13,5 |
| DO68720022 | E22 | E | 24,5 | 32 | 70 | 15 |
| DO68720024 | E24 | E | 26,5 | 32 | 70 | 17 |

Universal joint sockets are not included in the Action warranty.



1/2" SQUARE DRIVE

VIERKANT | CARRÉ



HEX DRIVER (INBUS) AUSSEN-6-KANT (INBUS) EMPREINTE-6-PANS (INBUS)

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|---------------------------------|---------|-------|------|-------|----|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO696304A | 4 | D | 25 | 75 | 11 | - |
| DO696305A | 5 | D | 25 | 75 | 15 | - |
| DO696306A | 6 | D | 25 | 75 | 15 | - |
| DO696307A | 7 | D | 25 | 75 | 15 | - |
| DO696308A | 8 | D | 25 | 75 | 16 | - |
| DO696309A | 9 | D | 25 | 75 | 16 | - |
| DO696310A | 10 | D | 25 | 75 | 16 | - |
| DO696311A | 11 | D | 25 | 75 | 16 | - |
| DO696312A | 12 | D | 25 | 75 | 16 | - |
| DO696313A | 13 | D | 25 | 75 | 16 | - |
| DO696314A | 14 | D | 25 | 75 | 16 | - |
| DO696315A | 15 | D | 25 | 75 | 16 | - |
| DO696316A | 16 | D | 25 | 75 | 16 | - |
| DO696317A | 17 | D | 30 | 75 | 16 | - |
| DO696319A | 19 | D | 30 | 75 | 16 | - |
| DO696321A | 21 | D | 30 | 75 | 16 | - |
| DO696322A | 22 | D | 30 | 75 | 16 | - |
| DO696324A | 24 | D | 30 | 75 | 16 | - |
| DO64827006 | 6 | D | 25 | 100 | 15 | - |
| DO64828006 | 6 | D | 25 | 125 | 15 | - |
| DO64827008 | 8 | D | 25 | 100 | 16 | - |
| DO64828008 | 8 | D | 25 | 125 | 16 | - |
| DO64827010 | 10 | D | 25 | 100 | 16 | - |
| DO64828010 | 10 | D | 25 | 125 | 16 | - |
| DO64827012 | 12 | D | 25 | 100 | 16 | - |
| DO64827014 | 14 | D | 25 | 100 | 16 | - |

HEX BALL DRIVER KUGELKOPF-INBUS EMBOUT SPHÉRIQUE

| Type | Drawing | D2 mm | L mm | D1 mm | - | |
|---------------------------------|---------|-------|------|-------|------|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO6482N004 | 4 | T | 25 | 75 | 4,8 | - |
| DO6482N005 | 5 | T | 25 | 75 | 6 | - |
| DO6482N006 | 6 | T | 25 | 75 | 7,1 | - |
| DO6482N008 | 8 | T | 25 | 75 | 9,5 | - |
| DO6482N010 | 10 | T | 25 | 75 | 11,8 | - |
| DO6482N014 | 12 | T | 25 | 75 | 14 | - |
| DO6482N014 | 14 | T | 25 | 75 | 16,4 | - |
| DO6482N017 | 17 | T | 25 | 75 | 19,8 | - |

TAP HOLDER GEWINDEBOHRERHALTER DOUILLE PORT-TARAUD

| Type | A mm | Drawing | Ø D1 mm | Ø D2 mm | Ø d mm | L mm |
|------------|------|---------|---------|---------|--------|------|
| DO6322B001 | 3,4 | J | 22 | 22 | 4,5 | 40 |
| DO6322B002 | 4,9 | J | 22 | 22 | 6,0 | 45 |
| DO6322B003 | 5,5 | J | 22 | 22 | 7,0 | 45 |
| DO6322B004 | 6,2 | J | 22 | 22 | 8,0 | 45 |
| DO6322B005 | 7,0 | J | 22 | 22 | 9,0 | 45 |
| DO6322B006 | 8,0 | J | 22 | 22 | 10,0 | 45 |
| DO6322B007 | 9,0 | J | 22 | 22 | 11,0 | 50 |
| DO6322B008 | 9,0 | J | 22 | 22 | 12,0 | 50 |
| DO6322B009 | 11,0 | J | 22 | 22 | 14,0 | 52 |

TRIPLE SQUARE BIT NORMAL AUSSEN-XZN CARRÉ TRIPLE

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|------------|---------|-------|------|-------|----|---|
| DO65226005 | M5 | L | 25 | 55 | 7 | - |
| DO65226006 | M6 | L | 25 | 55 | 7 | - |
| DO65226008 | M8 | L | 25 | 55 | 9 | - |
| DO65226010 | M10 | L | 25 | 55 | 9 | - |
| DO65226012 | M12 | L | 25 | 55 | 11 | - |
| DO65226014 | M14 | L | 25 | 55 | 11 | - |
| DO65226016 | M16 | L | 25 | 55 | 13 | - |

TRIPLE SQUARE BIT LONG AUSSEN-XZN LANG CARRÉ TRIPLE LONGUE

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|------------|---------|-------|------|-------|----|---|
| DO65227005 | M5 | L | 25 | 100 | 7 | - |
| DO65227006 | M6 | L | 25 | 100 | 7 | - |
| DO65227008 | M8 | L | 25 | 100 | 9 | - |
| DO65227010 | M10 | L | 25 | 100 | 9 | - |
| DO65227012 | M12 | L | 25 | 100 | 11 | - |
| DO65227014 | M14 | L | 25 | 100 | 11 | - |
| DO65227016 | M16 | L | 25 | 100 | 13 | - |
| DO65227018 | M18 | L | 25 | 100 | 13 | - |

TRIPLE SQUARE BIT EXTRA LONG AUSSEN-XZN EXTRA LANG CARRÉ TRIPLE EXTRA LONGUE

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|------------|---------|-------|------|-------|----|---|
| DO65228008 | M8 | L | 25 | 120 | 9 | - |
| DO65228010 | M10 | L | 25 | 120 | 9 | - |
| DO65228012 | M12 | L | 25 | 120 | 11 | - |
| DO65228018 | M18 | L | 25 | 120 | 14 | - |

RIBE DRIVER RIBE PROFIL PROFILE RIBE

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|------------|---------|-------|------|-------|-----|---|
| DO65326006 | M6 | H | 25 | 55 | 5 | - |
| DO65326007 | M7 | H | 25 | 55 | 6,5 | - |
| DO65326008 | M8 | H | 25 | 55 | 7,5 | - |
| DO65326010 | M10 | H | 25 | 55 | 9 | - |
| DO65326012 | M12 | H | 25 | 55 | 10 | - |
| DO65326014 | M14 | H | 25 | 55 | 12 | - |
| DO65326016 | M16 | H | 25 | 55 | 14 | - |
| DO65326018 | M18 | H | 25 | 55 | 16 | - |

1/2" SQUARE DRIVE

VIKANT | CARRÉ

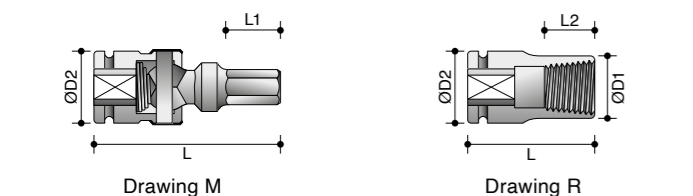
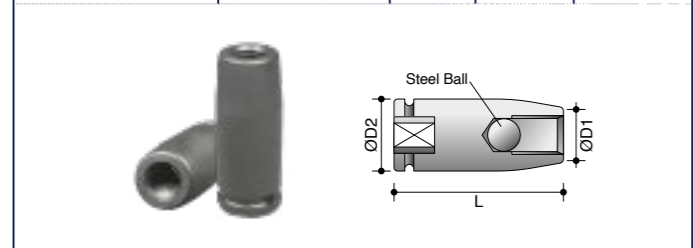


1 HEX DRIVER WITH UNIVERSAL JOINT AUSSEN-6-KANT KUGELGELENKSchlüssel CARDAN, EMPREINTE 6-PANS

| Type | mm | Drawing | D2 mm | L mm | L1 mm | - |
|---------------------------------|----|---------|----------|---------|----------|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO65121006 | 6 | M | 28 | 75 | 13 | - |
| DO65121007 | 7 | M | 28 | 75 | 13 | - |
| DO65121008 | 8 | M | 28 | 75 | 20 | - |
| DO65121009 | 9 | M | 28 | 75 | 20 | - |
| DO65121010 | 10 | M | 28 | 75 | 20 | - |
| DO65121011 | 11 | M | 28 | 75 | 20 | - |
| DO65121012 | 12 | M | 28 | 75 | 20 | - |
| DO65121013 | 13 | M | 28 | 75 | 20 | - |
| DO65121014 | 14 | M | 28 | 75 | 20 | - |
| DO65121015 | 15 | M | 28 | 75 | 20 | - |
| DO65121016 | 16 | M | 28 | 75 | 20 | - |
| DO65121017 | 17 | M | 28 | 75 | 20 | - |
| DO65121018 | 18 | M | 28 | 75 | 20 | - |
| DO65121019 | 19 | M | 28 | 75 | 20 | - |

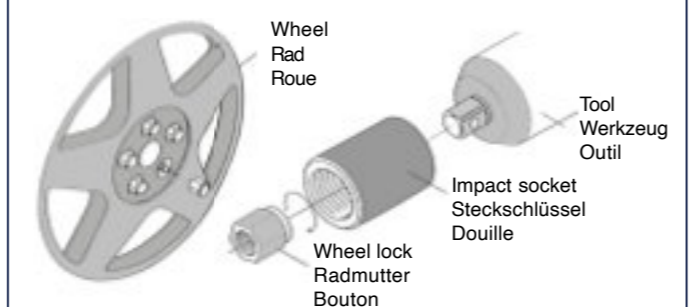
STUD BOLT SETTERS STEBBOLZENSETZER PRISE GOUJON

| Type | Size | D1 mm | D2 mm | L mm |
|------------|------------|----------|-----------|---------|
| DO69782010 | M6 x 1,0 | 13 | 25 | 55 |
| DO69782017 | M8 x 1,0 | 15 | 25 | 55 |
| DO69782018 | M8 x 1,25 | 15 | 25 | 55 |
| DO69782020 | M10 x 1,0 | 18 | 25 | 55 |
| DO69782021 | M10 x 1,25 | 18 | 25 <td 55 | |
| DO69782022 | M10 x 1,5 | 17 | 25 | 55 |
| DO69782025 | M12 x 1,25 | 19 | 25 | 55 |
| DO69782026 | M12 x 1,5 | 19 | 25 | 55 |
| DO69782027 | M12 x 1,75 | 19 | 25 | 55 |
| DO69782030 | M14 x 1,5 | 23 | 25 | 55 |
| DO69782031 | M14 x 2,0 | 22 | 25 | 55 |
| DO69782034 | M16 x 1,5 | 28 | 30 | 75 |
| DO69782035 | M16 x 2,0 | 27 | 30 | 75 |
| DO69782036 | M18 x 1,5 | 29,5 | 30 | 75 |
| DO69782038 | M18 x 2,5 | 29 | 30 | 75 |
| DO69782040 | M20 x 1,5 | 30 | 30 | 75 |
| DO69782041 | M20 x 2,5 | 30 | 30 | 75 |



2 WHEEL LUG NUT REMOVER SOCKETS RADMUTTERKRAFTSTECKSCHlüssel DOUILLES POUR DEPOSE DE BOULON DE ROUE

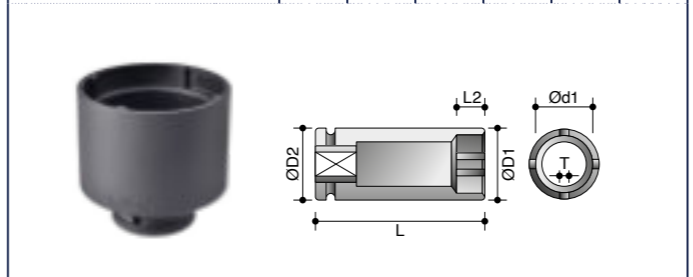
| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|------------|------|---------|----------|----------|---------|----------|
| DO69782090 | 17 | R | 24 | 24 | 38 | 17 |
| DO69782091 | 18,5 | R | 25 | 25 | 38 | 17 |
| DO69782092 | 20 | R | 26 | 26 | 38 | 22 |
| DO69782093 | 21,5 | R | 28,5 | 28,5 | 38 | 22 |
| DO69782094 | 23 | R | 30 | 30 | 38 | 22 |
| DO69782095 | 24,5 | R | 31 | 31 | 38 | 22 |
| DO69782096 | 26 | R | 32 | 32 | 38 | 22 |



This wheel lug nut remover is used when it is discovered that the original key to remove your car wheel is lost. In order to remove the lock and the wheel, these sockets can be used. Proper use of the socket is to have at least three windings of thread of the socket gripping over the lock. In case any of the first three windings are already gripping, the next bigger size of socket should be chosen. When the correct size of socket is chosen, it can unlock up to four bolts.

IMPACT SOCKETS FOR AXIAL NUTS EINSÄTZE FÜR WELLENMUTTER DOUILLES POUR ÉCROU DE BLOCAGE AXIAL

| Type | T mm | D1 mm | D2 mm | d1 mm | L2 mm | L mm |
|----------------------|---------|----------|----------|----------|----------|---------|
| DO69712530 GU06/30GU | 4,5 | 46 | 30 | 38,5 | 6,5 | 55 |
| DO69712725 KM6 | 4,5 | 46 | 30 | 34,5 | 9 | 82 |
| DO69712730 KM6 | 4,5 | 53 | 30 | 41,5 | 9 | 82 |
| DO69712740 KM8 | 4,5 | 81 | 30 | 53,5 | 9 | 82 |



PIN & RING | RING & STIFT | JOINT TORIQUE CLAVETTE

| Type |
|--------------|
| DO1012-0-000 |



3/4" SQUARE DRIVE

VIERKANT | CARRÉ



4-POINT NORMAL
4-KANT NORMAL
4-PANS NORMALE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | |
| DO63045016 | 16 B | 40 | 40 | 52 | 24 |
| DO63045017 | 17 B | 40 | 40 | 52 | 24 |
| DO63045019 | 19 B | 40 | 40 | 52 | 24 |
| DO63045020 | 20 B | 42 | 42 | 52 | 24 |
| DO63045021 | 21 B | 42 | 42 | 52 | 24 |
| DO63045022 | 22 B | 44 | 44 | 52 | 24 |
| DO63045024 | 24 C | 47 | 44 | 52 | 24 |

6-POINT NORMAL
6-KANT NORMAL
6-PANS NORMALE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | |
| DO3034-0-013 | 13 A | 25 | 44 | 50 | 9 |
| DO3034-0-014 | 14 A | 25 | 44 | 50 | 11 |
| DO3034-0-015 | 15 A | 26 | 44 | 50 | 11 |
| DO3034-0-016 | 16 A | 27 | 44 | 50 | 11 |
| DO3034-0-017 | 17 A | 31 | 44 | 50 | 12 |
| DO3034-0-018 | 18 A | 32 | 44 | 50 | 13 |
| DO3034-0-019 | 19 A | 33 | 44 | 50 | 13 |
| DO3034-0-020 | 20 A | 34 | 44 | 50 | 14 |
| DO3034-0-021 | 21 A | 35 | 44 | 50 | 15 |
| DO3034-0-022 | 22 A | 37 | 44 | 50 | 15 |
| DO3034-0-023 | 23 A | 38 | 44 | 50 | 16 |
| DO3034-0-024 | 24 A | 40 | 44 | 50 | 16 |
| DO3034-0-025 | 25 A | 40 | 44 | 50 | 16 |
| DO3034-0-026 | 26 A | 41 | 44 | 50 | 16 |
| DO3034-0-027 | 27 A | 43 | 44 | 54 | 19 |
| DO3034-0-028 | 28 B | 44 | 44 | 54 | 19 |
| DO3034-0-029 | 29 C | 45 | 44 | 54 | 21 |
| DO3034-0-030 | 30 C | 47 | 44 | 54 | 21 |
| DO3034-0-031 | 31 C | 48 | 44 | 56 | 21 |
| DO3034-0-032 | 32 C | 49 | 44 | 56 | 22 |
| DO3034-0-033 | 33 C | 51 | 44 | 56 | 22 |
| DO3034-0-034 | 34 C | 52 | 44 | 56 | 22 |
| DO3034-0-035 | 35 C | 53 | 44 | 56 | 22 |
| DO3034-0-036 | 36 C | 54 | 44 | 56 | 25 |
| DO3034-0-037 | 37 C | 56 | 44 | 58 | 25 |
| DO3034-0-038 | 38 C | 57 | 44 | 58 | 25 |
| DO3034-0-039 | 39 C | 58 | 44 | 58 | 25 |
| DO3034-0-040 | 40 C | 58 | 44 | 58 | 25 |
| DO3034-0-041 | 41 C | 60 | 44 | 58 | 27 |
| DO3034-0-042 | 42 C | 62 | 44 | 58 | 27 |
| DO3034-0-043 | 43 C | 63 | 44 | 63 | 27 |
| DO3034-0-044 | 44 C | 65 | 44 | 63 | 27 |
| DO3034-0-045 | 45 C | 66 | 44 | 63 | 27 |
| DO3034-0-046 | 46 C | 67 | 44 | 63 | 30 |
| DO3034-0-047 | 47 C | 68 | 44 | 68 | 30 |
| DO3034-0-049 | 49 C | 70 | 44 | 70 | 30 |
| DO3034-0-050 | 50 C | 71 | 54 | 72 | 32 |
| DO3034-0-055 | 55 C | 77 | 54 | 74 | 35 |

6-POINT NORMAL (CONTINUED)
6-KANT NORMAL (FORTSETZUNG)
6-PANS NORMALE (SUITE)

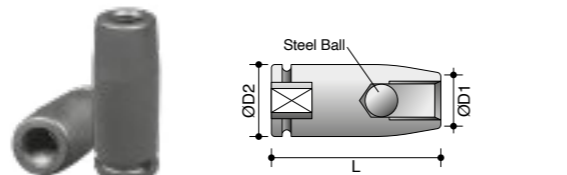
| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | |
| DO3034-0-056 | 56 C | 80 | 54 | 74 | 35 |
| DO3034-0-057 | 57 C | 84 | 54 | 74 | 35 |
| DO3034-0-060 | 60 C | 84 | 54 | 75 | 37 |
| DO3034-0-063 | 63 C | 86 | 54 | 75 | 37 |
| DO3034-0-065 | 65 C | 88 | 54 | 78 | 40 |
| DO3034-0-067 | 67 C | 90 | 54 | 80 | 40 |
| DO3034-0-070 | 70 C | 96 | 54 | 80 | 40 |
| DO3034-0-075 | 75 C | 102 | 64 | 83 | 42 |

6-POINT NORMAL
6-KANT NORMAL
6-PANS NORMALE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|--------------------|------------|-------|-------|------|-------|
| SAE · Zoll · Pouce | | | | | |
| DO3034-0-11/16 | 11/16" A | 29 | 38 | 50 | 12 |
| DO3034-0-3/4 | 3/4" A | 30 | 38 | 50 | 14 |
| DO3034-0-13/16 | 13/16" A | 32 | 38 | 52 | 16 |
| DO3034-0-7/8 | 7/8" A | 34 | 38 | 52 | 16 |
| DO3034-0-15/16 | 15/16" A | 36 | 38 | 52 | 16 |
| DO3034-0-1 | 1" C | 40 | 38 | 52 | 16 |
| DO3034-0-1 1/16 | 1 1/16" C | 40 | 38 | 52 | 16 |
| DO3034-0-1 1/8 | 1 1/8" B | 42 | 42 | 52 | 20 |
| DO3034-0-1 3/16 | 1 3/16" B | 44 | 44 | 52 | 20 |
| DO3034-0-1 1/4 | 1 1/4" B | 44 | 44 | 52 | 20 |
| DO3034-0-1 5/16 | 1 5/16" C | 47 | 44 | 56 | 23 |
| DO3034-0-1 3/8 | 1 3/8" C | 50 | 44 | 56 | 23 |
| DO3034-0-1 7/16 | 1 7/16" C | 51 | 44 | 56 | 23 |
| DO3034-0-1 1/2 | 1 1/2" C | 53 | 44 | 56 | 23 |
| DO3034-0-1 3/4 | 1 3/4" C | 65 | 44 | 62 | 27 |
| DO3034-0-1 13/16 | 1 13/16" C | 67 | 44 | 56 | 32 |

STUD BOLT SETTERS
STEBOLZENSETZER
PRISE GOUJON

| Type | Size | D1 mm | D2 mm | L mm |
|------------|-----------|-------|-------|------|
| DO69784162 | M16 x 2 | 29 | 44 | 100 |
| DO69784203 | M20 x 2,5 | 35 | 44 | 100 |
| DO69784241 | M24 x 1,5 | 37 | 44 | 100 |
| DO69784244 | M24 x 3 | 37 | 44 | 100 |
| DO69784274 | M27 x 3 | 42 | 44 | 100 |
| DO69784285 | M28 x 3,5 | 42 | 44 | 100 |
| DO69784305 | M30 x 3,5 | 43 | 44 | 100 |



3/4" SQUARE DRIVE

VIERKANT | CARRÉ

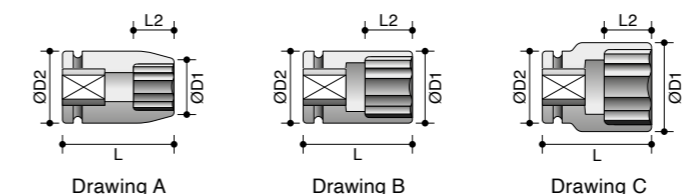


6-POINT DEEP
6-KANT TIEF
6-PANS PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | |
| DO3034-1-013 | 13 A | 25 | 44 | 95 | 13 |
| DO3034-1-014 | 14 A | 25 | 44 | 95 | 14 |
| DO3034-1-015 | 15 A | 26 | 44 | 95 | 15 |
| DO3034-1-017 | 17 A | 31 | 44 | 95 | 17 |
| DO3034-1-018 | 18 A | 32 | 44 | 95 | 18 |
| DO3034-1-019 | 19 A | 33 | 44 | 95 | 19 |
| DO3034-1-020 | 20 A | 34 | 44 | 95 | 20 |
| DO3034-1-021 | 21 A | 35 | 44 | 95 | 21 |
| DO3034-1-022 | 22 A | 37 | 44 | 95 | 22 |
| DO3034-1-023 | 23 A | 38 | 44 | 95 | 23 |
| DO3034-1-024 | 24 A | 39,5 | 44 | 95 | 24 |
| DO3034-1-025 | 25 A | 40 | 44 | 95 | 25 |
| DO3034-1-026 | 26 A | 41 | 44 | 95 | 26 |
| DO3034-1-027 | 27 A | 43 | 44 | 95 | 27 |
| DO3034-1-028 | 28 B | 44 | 44 | 95 | 28 |
| DO3034-1-029 | 29 C | 45 | 44 | 95 | 29 |
| DO3034-1-030 | 30 C | 47 | 44 | 95 | 30 |
| DO3034-1-031 | 31 C | 48 | 44 | 95 | 31 |
| DO3034-1-032 | 32 C | 49 | 44 | 95 | 32 |
| DO3034-1-033 | 33 C | 51 | 44 | 95 | 33 |
| DO3034-1-034 | 34 C | 52 | 44 | 95 | 34 |
| DO3034-1-035 | 35 C | 53 | 44 | 95 | 35 |
| DO3034-1-036 | 36 C | 54 | 44 | 95 | 36 |
| DO3034-1-037 | 37 C | 56 | 44 | 95 | 37 |
| DO3034-1-038 | 38 C | 57 | 44 | 95 | 38 |
| DO3034-1-039 | 39 C | 58 | 44 | 95 | 38 |
| DO3034-1-040 | 40 C | 58 | 44 | 95 | 38 |
| DO3034-1-041 | 41 C | 60 | 44 | 95 | 38 |
| DO3034-1-042 | 42 C | 62 | 44 | 95 | 38 |
| DO3034-1-043 | 43 C | 63 | 44 | 95 | 38 |
| DO3034-1-044 | 44 C | 65 | 44 | 95 | 38 |
| DO3034-1-046 | 46 C | 67 | 44 | 95 | 38 |
| DO3034-1-047 | 47 C | 68 | 44 | 95 | 38 |
| DO3034-1-048 | 48 C | 69 | 44 | 95 | 38 |
| DO3034-1-049 | 49 C | 70 | 44 | 95 | 38 |
| DO3034-1-050 | 50 C | 71 | 54 | 95 | 38 |
| DO3034-1-052 | 52 C | 74 | 54 | 95 | 40 |
| DO3034-1-055 | 55 C | 77 | 54 | 100 | 40 |
| DO3034-1-060 | 60 C | 84 | 54 | 105 | 42 |
| DO3034-1-065 | 65 C | 88 | 54 | 105 | 66 |

PIN & RING | RING & STIFT | JOINT TORIQUE CLAVETTE

| Type |
|--------------|
| DO1034-0-000 |



6-POINT DEEP
6-KANT TIEF
6-PANS PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|--------------------|-----------|-------|-------|------|-------|
| SAE · Zoll · Pouce | | | | | |
| DO3034-1-13/16 | 13/16" A | 32 | 38 | 85 | 23 |
| DO3034-1-7/8 | 7/8" A | 34 | 38 | 85 | 23 |
| DO3034-1-15/16 | 15/16" A | 36 | 38 | 85 | 41 |
| DO3034-1-1 | 1" C | 40 | 38 | 85 | 41 |
| DO3034-1-1 1/8 | 1 1/8" B | 42 | 42 | 85 | 52 |
| DO3034-1-1 3/16 | 1 3/16" B | 44 | 44 | 85 | 52 |
| DO3034-1-1 1/4 | 1 1/4" B | 44 | 44 | 85 | 52 |
| DO3034-1-1 5/16 | 1 5/16" C | 47 | 44 | 85 | 52 |
| DO3034-1-1 7/16 | 1 7/16" C | 51 | 44 | 85 | 52 |
| DO3034-1-1 1/2 | 1 1/2" C | 53 | 44 | 85 | 60 |

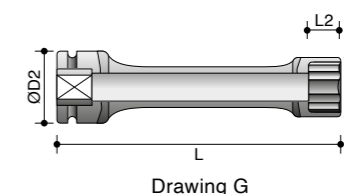
6-POINT EXTRA LONG
6-KANT EXTRA LANG
6-PANS EXTRA LONGUE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | |
| DO61145024 | 24 G | 38,5 | 44 | 270 | 24 |
| DO61145027 | 27 G | 42 | 44 | 270 | 27 |
| DO61145030 | 30 G | 45 | 44 | 270 | 30 |
| DO61145032 | 32 G | 47 | 44 | 270 | 32 |
| DO61145033 | 33 G | 48 | 44 | 270 | 32 |
| DO61145036 | 36 G | 53,5 | 44 | 270 | 32 |
| DO61145046 | 46 G | 63 | 44 | 270 | 38 |
| DO61146024 | 24 G | 38,5 | 44 | 400 | 24 |
| DO61146027 | 27 G | 42 | 44 | 400 | 27 |
| DO61146030 | 30 G | 45 | 44 | 400 | 30 |
| DO61146032 | 32 G | 47 | 44 | 400 | 32 |
| DO61146033 | 33 G | 48 | 44 | 400 | 32 |
| DO61146036 | 36 G | 53,5 | 44 | 400 | 32 |

6-POINT THIN WALL DEEP
6-KANT DÜNNWANDIG TIEF
6-PANS PAROI MINCE PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Metriques | | | | | |
| DO61141017 | 17 A | 25,5 | 44 | 95 | 17 |
| DO61141019 | 19 A | 28,5 | 44 | 95 | 19 |
| DO61141022 | 22 A | 33,5 | 44 | 95 | 22 |
| DO61141024 | 24 A | 36,5 | 44 | 95 | 24 |
| DO61141027 | 27 A | 40,5 | 44 | 95 | 27 |
| DO61141030 | 30 A | 43,5 | 44 | 95 | 30 |
| DO61141032 | 32 B | 46,5 | 44 | 95 | 32 |
| DO61141033 | 33 B | 47,5 | 44 | 95 | 33 |
| DO61141036 | 36 B | 52 | 44 | 95 | 36 |
| DO61141038 | 38 B | 54 | 44 | 95 | 38 |
| DO61141041 | 41 B | 57 | 44 | 95 | 38 |

Thin wall sockets are not included in the Action warranty.



3/4" SQUARE DRIVE

VIERKANT | CARRÉ



6-POINT EXTREME THIN WALL DEEP
6-KANT EXTREM DÜNNWANDIG TIEF
6-PANS EXTREME PAROI MINCE PROFONDE

| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|----|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | | |
| DO61142027 | 27 | A | 40 | 43 | 108 | 43 |
| DO61142032 | 32 | B | 45 | 45 | 108 | 43 |
| DO61142041 | 41 | C | 54,5 | 45 | 108 | 43 |

Thin wall sockets are not included in the Action warranty.

HEX DRIVER (INBUS) L = 62
AUSSEN-6-KANT (INBUS) L = 62
EMPREINTE 6-PANS (INBUS) L = 62

| Type | mm | Drawing | D2 mm | L mm | L1 mm | - |
|---------------------------------|----|---------|-------|------|-------|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO64845012 | 12 | D | 44 | 62 | 20 | - |
| DO64845014 | 14 | D | 44 | 62 | 20 | - |
| DO64845017 | 17 | D | 44 | 62 | 20 | - |
| DO64845019 | 19 | D | 44 | 62 | 20 | - |
| DO64845022 | 22 | D | 44 | 62 | 20 | - |
| DO64845024 | 24 | D | 44 | 62 | 20 | - |
| DO64845027 | 27 | D | 44 | 62 | 20 | - |
| DO64845030 | 30 | D | 44 | 62 | 20 | - |
| DO64845032 | 32 | D | 44 | 62 | 20 | - |
| DO64845034 | 34 | D | 44 | 62 | 20 | - |
| DO64845036 | 36 | D | 44 | 62 | 20 | - |

HEX BALL DRIVER
KUGELKOPF-INBUS
EMBOUT SPHÉRIQUE

| Type | mm | Drawing | D2 mm | L mm | D1 mm | - |
|---------------------------------|----|---------|-------|------|-------|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO6484N210 | 10 | T | 44 | 150 | 20 | - |
| DO6484N212 | 12 | T | 44 | 150 | 20 | - |
| DO6484N214 | 14 | T | 44 | 150 | 20 | - |
| DO6484N217 | 17 | T | 44 | 150 | 26 | - |
| DO6484N219 | 19 | T | 44 | 150 | 26 | - |
| DO6484N222 | 22 | T | 44 | 150 | 26 | - |
| DO6484N224 | 24 | T | 44 | 150 | 30 | - |
| DO6484N227 | 27 | T | 44 | 150 | 33,5 | - |

HEX DRIVER (INBUS) L = 100
AUSSEN-6-KANT (INBUS) L = 100
EMPREINTE 6-PANS (INBUS) L = 100

| Type | mm | Drawing | D2 mm | L mm | L1 mm | - |
|---------------------------------|----|---------|-------|------|-------|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO696510A | 10 | D | 44 | 100 | 20 | - |
| DO696512A | 12 | D | 44 | 100 | 20 | - |
| DO696514A | 14 | D | 44 | 100 | 20 | - |
| DO696517A | 17 | D | 44 | 100 | 20 | - |
| DO696519A | 19 | D | 44 | 100 | 20 | - |
| DO696522A | 22 | D | 44 | 100 | 20 | - |
| DO696524A | 24 | D | 44 | 100 | 20 | - |
| DO696527A | 27 | D | 44 | 100 | 20 | - |
| DO696530A | 30 | D | 44 | 100 | 20 | - |
| DO696532A | 32 | D | 44 | 100 | 20 | - |
| DO696536A | 36 | D | 44 | 100 | 20 | - |

8-POINT NORMAL
8-KANT NORMAL
8-PANS NORMALE

| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|----|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | | |
| DO63645019 | 19 | B | 41 | 41 | 52 | 15 |
| DO63645024 | 24 | C | 46 | 44,5 | 52 | 20 |
| DO63645027 | 27 | C | 53 | 44,5 | 56 | 24 |
| DO63645030 | 30 | C | 60 | 44,5 | 60 | 28 |
| DO63645032 | 32 | C | 60 | 44,5 | 60 | 28 |
| DO63645038 | 38 | C | 70 | 44,5 | 64 | 32 |

12-POINT NORMAL
12-KANT NORMAL
12-PANS NORMALE

| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|----|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | | |
| DO63845013 | 13 | A | 23 | 44 | 50 | 12 |
| DO63845014 | 14 | A | 24 | 44 | 50 | 12 |
| DO63845015 | 15 | A | 26 | 44 | 50 | 12 |
| DO63845016 | 16 | A | 27 | 44 | 50 | 12 |
| DO63845017 | 17 | A | 28 | 44 | 50 | 12 |
| DO63845018 | 18 | A | 29 | 44 | 50 | 12 |
| DO63845019 | 19 | A | 30 | 44 | 50 | 14 |
| DO63845020 | 20 | A | 31 | 44 | 52 | 16 |
| DO63845021 | 21 | A | 32 | 44 | 52 | 16 |
| DO63845022 | 22 | A | 34 | 44 | 52 | 16 |
| DO63845023 | 23 | A | 35 | 44 | 52 | 16 |
| DO63845024 | 24 | A | 36 | 44 | 52 | 18 |
| DO63845025 | 25 | B | 38 | 44 | 52 | 18 |
| DO63845026 | 26 | C | 40 | 44 | 52 | 23 |
| DO63845027 | 27 | C | 40 | 44 | 52 | 23 |
| DO63845028 | 28 | C | 42 | 44 | 52 | 23 |
| DO63845029 | 29 | C | 43 | 44 | 52 | 23 |
| DO63845030 | 30 | C | 43 | 44 | 52 | 23 |
| DO63845031 | 31 | C | 44 | 44 | 56 | 24 |
| DO63845032 | 32 | C | 45 | 44 | 56 | 24 |
| DO63845033 | 33 | C | 46 | 44 | 56 | 24 |
| DO63845034 | 34 | C | 48 | 44 | 56 | 24 |
| DO63845035 | 35 | C | 50 | 44 | 56 | 24 |
| DO63845036 | 36 | C | 51 | 44 | 56 | 24 |
| DO63845037 | 37 | C | 52 | 44 | 56 | 24 |
| DO63845038 | 38 | C | 53 | 44 | 56 | 24 |
| DO63845039 | 39 | C | 55 | 44 | 62 | 28 |
| DO63845041 | 41 | C | 58 | 44 | 62 | 28 |
| DO63845042 | 42 | C | 61 | 44 | 62 | 28 |
| DO63845043 | 43 | C | 63 | 44 | 62 | 28 |
| DO63845046 | 46 | C | 67 | 44 | 68 | 33 |
| DO63845050 | 50 | C | 71 | 54 | 70 | 34 |
| DO63845055 | 55 | C | 77 | 54 | 74 | 35 |
| DO63845056 | 56 | C | 77 | 54 | 74 | 35 |
| DO63845060 | 60 | C | 84 | 54 | 75 | 35 |
| DO63845063 | 63 | C | 86 | 54 | 78 | 37 |
| DO63845065 | 65 | C | 88 | 54 | 78 | 38 |
| DO63845067 | 67 | C | 90 | 54 | 80 | 40 |
| DO63845070 | 70 | C | 96 | 54 | 80 | 40 |

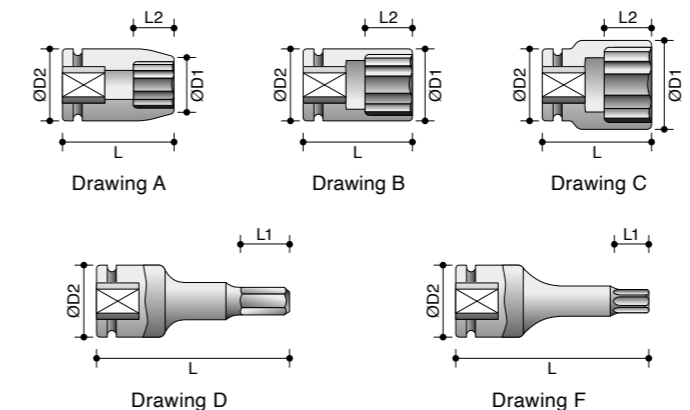
3/4" SQUARE DRIVE

VIERKANT | CARRÉ



12-POINT DEEP
12-KANT TIEF
12-PANS PROFONDE

| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|----|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | | |
| DO65847013 | 13 | A | 24,5 | 44 | 95 | 13 |
| DO65847014 | 14 | A | 25,5 | 44 | 95 | 14 |
| DO65847015 | 15 | A | 27 | 44 | 95 | 15 |
| DO65847016 | 16 | A | 28 | 44 | 95 | 16 |
| DO65847017 | 17 | A | 29,5 | 44 | 95 | 17 |
| DO65847018 | 18 | A | 31 | 44 | 95 | 18 |
| DO65847019 | 19 | A | 32 | 44 | 95 | 19 |
| DO65847020 | 20 | A | 34 | 44 | 95 | 20 |
| DO65847021 | 21 | A | 35 | 44 | 95 | 21 |
| DO65847022 | 22 | A | 37 | 44 | 95 | 22 |
| DO65847023 | 23 | A | 38 | 44 | 95 | 23 |
| DO65847024 | 24 | A | 39 | 44 | 95 | 24 |
| DO65847025 | 25 | A | 41 | 44 | 95 | 25 |
| DO65847026 | 26 | A | 42 | 44 | 95 | 26 |
| DO65847027 | 27 | A | 43 | 44 | 95 | 27 |
| DO65847028 | 28 | B | 44 | 44 | 95 | 28 |
| DO65847029 | 29 | C | 46 | 44 | 95 | 29 |
| DO65847030 | 30 | C | 47 | 44 | 95 | 30 |
| DO65847031 | 31 | C | 48 | 44 | 95 | 31 |
| DO65847032 | 32 | C | 49 | 44 | 95 | 32 |
| DO65847033 | 33 | C | 51 | 44 | 95 | 33 |
| DO65847034 | 34 | C | 52 | 44 | 95 | 34 |
| DO65847035 | 35 | C | 53 | 44 | 95 | 35 |
| DO65847036 | 36 | C | 54 | 44 | 95 | 36 |
| DO65847037 | 37 | C | 56 | 44 | 95 | 37 |
| DO65847038 | 38 | C | 57 | 44 | 95 | 38 |
| DO65847039 | 39 | C | 58 | 44 | 95 | 38 |
| DO65847040 | 40 | C | 59,5 | 44 | 95 | 38 |
| DO65847041 | 41 | C | 61 | 44 | 95 | 38 |
| DO65847042 | 42 | C | 62 | 44 | 95 | 38 |
| DO65847043 | 43 | C | 63,5 | 44 | 95 | 38 |
| DO65847044 | 44 | C | 64,5 | 44 | 95 | 38 |
| DO65847045 | 45 | C | 65,5 | 44 | 95 | 38 |
| DO65847046 | 46 | C | 66,5 | 44 | 100 | 38 |
| DO65847047 | 47 | C | 68 | 44 | 100 | 38 |
| DO65847048 | 48 | C | 69 | 44 | 100 | 38 |
| DO65847049 | 49 | C | 70 | 44 | 100 | 38 |
| DO65847050 | 50 | C | 71 | 54 | 100 | 38 |
| DO65847051 | 51 | C | 72 | 54 | 100 | 40 |
| DO65847052 | 52 | C | 74 | 54 | 100 | 40 |
| DO65847053 | 53 | C | 75 | 54 | 100 | 40 |
| DO65847055 | 55 | C | 78 | 54 | 105 | 40 |



12-POINT DEEP (CONTINUED)
12-KANT TIEF (FORTSETZUNG)
12-PANS PROFONDE (SUITE)

| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|----|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | | |
| DO65847056 | 56 | C | 79 | 54 | 105 | 40 |
| DO65847057 | 57 | C | 80 | 54 | 105 | 40 |
| DO65847058 | 58 | C | 81 | 54 | 105 | 40 |
| DO65847060 | 60 | C | 84 | 54 | 105 | 42 |
| DO65847063 | 63 | C | 87 | 54 | 105 | 42 |
| DO65847065 | 65 | C | 90 | 54 | 105 | 66 |
| DO65847067 | 67 | C | 92 | 54 | 105 | 66 |
| DO65847068 | 68 | C | 94 | 54 | 105 | 66 |
| DO65847070 | 70 | C | 96 | 54 | 105 | 66 |
| DO65847073 | 73 | C | 100 | 54 | 108 | 66 |
| DO65847075 | 75 | C | 102 | 64 | 108 | 68 |

TORX®INTERNAL
TORX®INNEN
TORX®INTÉRIEURE

| Type | mm | Drawing | D2 mm | L mm | L1 mm | - |
|---------------------------------|------|---------|-------|------|-------|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO64742050 | T50 | F | 44 | 100 | 5,0 | - |
| DO64742055 | T55 | F | 44 | 100 | 5,5 | - |
| DO64742060 | T60 | F | 44 | 100 | 8,0 | - |
| DO64742070 | T70 | F | 44 | 100 | 9,4 | - |
| DO64742080 | T80 | F | 44 | 100 | 10,5 | - |
| DO64742090 | T90 | F | 44 | 100 | 11,8 | - |
| DO64742100 | T100 | F | 44 | 100 | 13,1 | - |

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TORX®EXTERNAL
TORX®AUSSEN
TORX®EXTÉRIEURE

| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|-----|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | | |
| DO63340018 | E18 | A | 25 | 44 | 56 | 12,5 |
| DO63340020 | E20 | A | 27 | 44 | 56 | 14 |
| DO63 | | | | | | |

1" SQUARE DRIVE

VIERKANT | CARRÉ



4-POINT NORMAL
4-KANT NORMAL
4-PANS NORMALE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO63055017 | 17 B | 52 | 52 | 57 | 24 |
| DO63055019 | 19 B | 52 | 52 | 57 | 24 |
| DO63055020 | 20 B | 52 | 52 | 57 | 24 |
| DO63055021 | 21 B | 52 | 52 | 57 | 24 |
| DO63150100 | 1" A | 52 | 54 | 60 | 30 |

6-POINT NORMAL
6-KANT NORMAL
6-PANS NORMALE

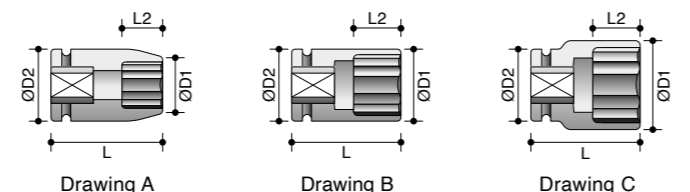
| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO4010-0-017 | 17 A | 34 | 54 | 60 | 12 |
| DO4010-0-018 | 18 A | 35 | 54 | 60 | 13 |
| DO4010-0-019 | 19 A | 35,5 | 54 | 60 | 13 |
| DO4010-0-020 | 20 A | 37 | 54 | 60 | 14 |
| DO4010-0-021 | 21 A | 38 | 54 | 60 | 15 |
| DO4010-0-022 | 22 A | 40 | 54 | 60 | 15 |
| DO4010-0-023 | 23 A | 41 | 54 | 60 | 16 |
| DO4010-0-024 | 24 A | 42 | 54 | 60 | 18 |
| DO4010-0-025 | 25 A | 43 | 54 | 60 | 18 |
| DO4010-0-026 | 26 A | 44,5 | 54 | 60 | 18 |
| DO4010-0-027 | 27 A | 46 | 54 | 60 | 19 |
| DO4010-0-028 | 28 A | 47 | 54 | 62 | 19 |
| DO4010-0-029 | 29 A | 48 | 54 | 62 | 19 |
| DO4010-0-030 | 30 A | 50 | 54 | 62 | 21 |
| DO4010-0-031 | 31 A | 51 | 54 | 62 | 21 |
| DO4010-0-032 | 32 A | 52 | 54 | 62 | 22 |
| DO4010-0-033 | 33 A | 53 | 54 | 62 | 22 |
| DO4010-0-034 | 34 C | 55 | 54 | 62 | 22 |
| DO4010-0-035 | 35 C | 56 | 54 | 65 | 22 |
| DO4010-0-036 | 36 C | 57 | 54 | 67 | 25 |
| DO4010-0-037 | 37 C | 59 | 54 | 67 | 25 |
| DO4010-0-038 | 38 C | 59,5 | 54 | 67 | 25 |
| DO4010-0-039 | 39 C | 60 | 54 | 70 | 25 |
| DO4010-0-040 | 40 C | 62 | 54 | 70 | 25 |
| DO4010-0-041 | 41 C | 64 | 54 | 70 | 27 |
| DO4010-0-042 | 42 C | 65 | 54 | 74 | 27 |
| DO4010-0-043 | 43 C | 66 | 54 | 74 | 27 |
| DO4010-0-045 | 45 C | 68 | 54 | 74 | 27 |
| DO4010-0-046 | 46 C | 69,5 | 54 | 76 | 30 |
| DO4010-0-047 | 47 C | 72 | 54 | 76 | 32 |
| DO4010-0-048 | 48 C | 73 | 54 | 76 | 32 |
| DO4010-0-050 | 50 C | 74 | 54 | 80 | 35 |
| DO4010-0-052 | 52 C | 77 | 54 | 84 | 35 |
| DO4010-0-053 | 53 C | 78 | 54 | 84 | 35 |
| DO4010-0-054 | 54 C | 79 | 54 | 84 | 35 |
| DO4010-0-055 | 55 C | 81 | 54 | 84 | 35 |

6-POINT NORMAL (CONTINUED)
6-KANT NORMAL (FORTSETZUNG)
6-PANS NORMALE (SUITE)

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO4010-0-056 | 56 C | 83 | 54 | 84 | 40 |
| DO4010-0-057 | 57 C | 84 | 54 | 84 | 40 |
| DO4010-0-058 | 58 C | 85 | 54 | 87 | 40 |
| DO4010-0-060 | 60 C | 87 | 54 | 87 | 42 |
| DO4010-0-062 | 62 C | 89 | 54 | 87 | 42 |
| DO4010-0-063 | 63 C | 90 | 54 | 87 | 42 |
| DO4010-0-065 | 65 C | 93 | 54 | 90 | 42 |
| DO4010-0-070 | 70 C | 100 | 54 | 96 | 42 |
| DO4010-0-075 | 75 C | 106 | 86 | 98 | 45 |
| DO4010-0-080 | 80 C | 112 | 86 | 100 | 48 |
| DO4010-0-085 | 85 C | 118 | 86 | 105 | 52 |
| DO4010-0-090 | 90 C | 125 | 86 | 105 | 52 |
| DO4010-0-095 | 95 C | 131 | 86 | 115 | 52 |
| DO4010-0-100 | 100 C | 137 | 95 | 115 | 58 |
| DO4010-0-105 | 105 C | 143 | 95 | 115 | 58 |

6-POINT NORMAL
6-KANT NORMAL
6-PANS NORMALE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|--------------------|------------|-------|-------|------|-------|
| SAE · Zoll · Pouce | | | | | |
| DO4010-0-1 | 1" A | 42 | 51 | 58 | 18 |
| DO4010-0-1 1/8 | 1 1/8" A | 46 | 51 | 58 | 19 |
| DO4010-0-1 5/16 | 1 5/16" C | 53 | 52 | 62 | 21 |
| DO4010-0-1 7/16 | 1 7/16" C | 56 | 52 | 62 | 26 |
| DO4010-0-1 1/2 | 1 1/2" C | 58 | 52 | 62 | 26 |
| DO4010-0-1 11/16 | 1 11/16" C | 65 | 52 | 64 | 27 |
| DO4010-0-1 7/8 | 1 7/8" C | 70 | 58 | 66 | 28 |
| DO4010-0-2 1/16 | 2 1/16" C | 75 | 58 | 70 | 31 |
| DO4010-0-2 1/4 | 2 1/4" C | 84 | 62 | 75 | 34 |
| DO4010-0-2 7/16 | 2 7/16" C | 89 | 62 | 78 | 35 |
| DO4010-0-2 1/2 | 2 1/2" C | 91 | 62 | 80 | 36 |
| DO4010-0-2 7/8 | 2 7/8" C | 102 | 62 | 87 | 41 |



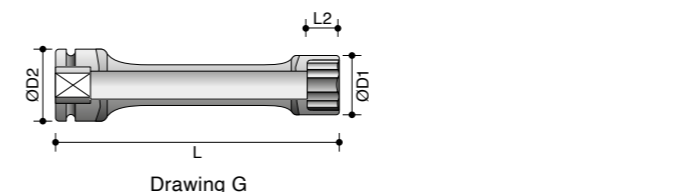
1" SQUARE DRIVE

VIERKANT | CARRÉ



6-POINT DEEP
6-KANT TIEF
6-PANS PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO4010-1-017 | 17 A | 34 | 54 | 100 | 17 |
| DO4010-1-018 | 18 A | 34 | 54 | 100 | 18 |
| DO4010-1-019 | 19 A | 35,5 | 54 | 100 | 19 |
| DO4010-1-020 | 20 A | 36,5 | 54 | 100 | 20 |
| DO4010-1-021 | 21 A | 37,5 | 54 | 100 | 21 |
| DO4010-1-022 | 22 A | 40 | 54 | 100 | 22 |
| DO4010-1-023 | 23 A | 41 | 54 | 100 | 23 |
| DO4010-1-024 | 24 A | 42 | 54 | 100 | 24 |
| DO4010-1-025 | 25 A | 43 | 54 | 100 | 25 |
| DO4010-1-026 | 26 A | 44,5 | 54 | 100 | 26 |
| DO4010-1-027 | 27 A | 46 | 54 | 100 | 27 |
| DO4010-1-028 | 28 A | 47 | 54 | 100 | 28 |
| DO4010-1-029 | 29 A | 48 | 54 | 100 | 29 |
| DO4010-1-030 | 30 A | 50 | 54 | 100 | 30 |
| DO4010-1-031 | 31 A | 51 | 54 | 100 | 31 |
| DO4010-1-032 | 32 A | 52 | 54 | 100 | 32 |
| DO4010-1-033 | 33 A | 53 | 53 | 100 | 33 |
| DO4010-1-034 | 34 C | 55 | 54 | 100 | 34 |
| DO4010-1-035 | 35 C | 56 | 54 | 100 | 35 |
| DO4010-1-036 | 36 C | 57 | 54 | 100 | 36 |
| DO4010-1-037 | 37 C | 57 | 54 | 100 | 37 |
| DO4010-1-038 | 38 C | 59,5 | 54 | 100 | 38 |
| DO4010-1-039 | 39 C | 61 | 54 | 100 | 38 |
| DO4010-1-040 | 40 C | 62 | 54 | 100 | 38 |
| DO4010-1-041 | 41 C | 64 | 54 | 100 | 38 |
| DO4010-1-042 | 42 C | 65 | 54 | 100 | 38 |
| DO4010-1-046 | 46 C | 69,5 | 54 | 100 | 38 |
| DO4010-1-047 | 47 C | 71,5 | 54 | 100 | 38 |
| DO4010-1-048 | 48 C | 72,5 | 54 | 100 | 38 |
| DO4010-1-050 | 50 C | 75 | 54 | 100 | 38 |
| DO4010-1-054 | 54 C | 80 | 54 | 100 | 40 |
| DO4010-1-055 | 55 C | 81 | 54 | 100 | 40 |
| DO4010-1-056 | 56 C | 82 | 54 | 105 | 40 |
| DO4010-1-058 | 58 C | 85 | 54 | 105 | 40 |
| DO4010-1-060 | 60 C | 87 | 54 | 120 | 42 |
| DO4010-1-065 | 65 C | 93 | 54 | 125 | 42 |
| DO4010-1-070 | 70 C | 100 | 54 | 125 | 42 |
| DO4010-1-075 | 75 C | 106 | 86 | 135 | 45 |
| DO4010-1-080 | 80 C | 112 | 86 | 135 | 48 |
| DO4010-1-085 | 85 C | 118 | 86 | 140 | 52 |
| DO4010-1-090 | 90 C | 125 | 86 | 140 | 52 |
| DO4010-1-095 | 95 C | 131 | 86 | 140 | 52 |
| DO4010-1-100 | 100 C | 137 | 95 | 140 | 58 |
| DO4010-1-105 | 105 C | 143 | 95 | 155 | 58 |
| DO4010-1-110 | 110 C | 149 | 95 | 155 | 60 |
| DO4010-1-115 | 115 C | 155 | 95 | 155 | 62 |



6-POINT DEEP
6-KANT TIEF
6-PANS PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|--------------------|-----------|-------|-------|------|-------|
| SAE · Zoll · Pouce | | | | | |
| DO4010-1-15/16 | 15/16" A | 40 | 51 | 90 | 21 |
| DO4010-1-1 | 1" A | 42 | 51 | 90 | 25 |
| DO4010-1-1 1/16 | 1 1/16" A | 44 | 51 | 90 | 23 |
| DO4010-1-1 3/16 | 1 3/16" A | 48 | 51 | 90 | 40 |
| DO4010-1-1 5/16 | 1 5/16" C | 53 | 52 | 90 | 40 |
| DO4010-1-1 1/2 | 1 1/2" C | 58 | 52 | 92 | 54 |

6-POINT THIN WALL DEEP
6-KANT DÜNNWANDIG TIEF
6-PANS PAROI MINCE PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO61151019 | 19 A | 33 | 54 | 100 | 19 |
| DO61151024 | 24 A | 38 | 54 | 100 | 24 |
| DO61151027 | 27 A | 42,5 | 54 | 100 | 27 |
| DO61151028 | 28 A | 43 | 54 | 100 | 28 |
| DO61151030 | 30 A | 45 | 54 | 100 | 30 |
| DO61151032 | 32 A | 47 | 54 | 100 | 32 |
| DO61151033 | 33 A | 49 | 54 | 100 | 33 |
| DO61151036 | 36 A | 52 | 54 | 100 | 36 |
| DO61151041 | 41 C | 57 | 54 | 100 | 38 |

6-POINT EXTRA DEEP
6-KANT EXTRA TIEF
6-PANS EXTRA PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO60559024 | 24 G | 42 | 54 | 270 | 24 |
| DO60559027 | 27 G | 45 | 54 | 270 | 27 |
| DO60559030 | 30 G | 50 | 54 | 270 | 30 |
| DO60559032 | 32 G | 52 | 54 | 270 | 32 |
| DO60559033 | 33 G | 52 | 54 | 270 | 32 |
| DO60559036 | 36 G | 57 | 54 | 270 | 36 |
| DO6115H032 | 32 G | 48,5 | 54 | 400 | 32 |
| DO6115H033 | 33 G | 50 | 54 | 400 | 32 |

1" SQUARE DRIVE

VIERKANT | CARRÉ



8-POINT NORMAL 8-KANT NORMAL 8-PANS NORMALE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|----|
| Metrical · Metrisch · Métriques | | | | | | |
| DO63655019 | 19 | A | 45 | 54 | 60 | 13 |
| DO63655024 | 24 | A | 52 | 54 | 60 | 18 |
| DO63655027 | 27 | C | 56,5 | 54 | 60 | 19 |
| DO63655030 | 30 | C | 61 | 54 | 62 | 21 |
| DO63655032 | 32 | C | 64 | 54 | 62 | 22 |
| DO63655035 | 35 | C | 68,5 | 58 | 65 | 22 |
| DO63655038 | 38 | C | 73 | 58 | 67 | 24 |
| DO63655046 | 46 | C | 86 | 62 | 76 | 30 |

12-POINT NORMAL 12-KANT NORMAL 12-PANS NORMALE

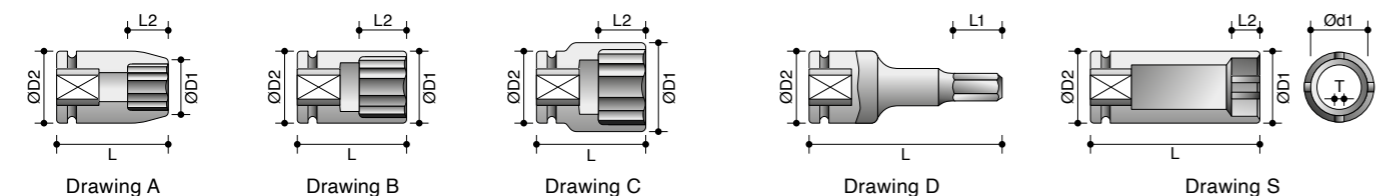
| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|----|
| Metrical · Metrisch · Métriques | | | | | | |
| DO65855016 | 16 | A | 32 | 54 | 60 | 11 |
| DO65855017 | 17 | A | 34 | 54 | 60 | 11 |
| DO65855018 | 18 | A | 35 | 54 | 60 | 13 |
| DO65855019 | 19 | A | 36 | 54 | 60 | 13 |
| DO65855020 | 20 | A | 37 | 54 | 60 | 13 |
| DO65855021 | 21 | A | 38 | 54 | 60 | 15 |
| DO65855022 | 22 | A | 39 | 54 | 60 | 15 |
| DO65855023 | 23 | A | 40 | 54 | 60 | 15 |
| DO65855024 | 24 | A | 41 | 54 | 60 | 18 |
| DO65855025 | 25 | A | 43 | 54 | 60 | 18 |
| DO65855026 | 26 | A | 44,5 | 54 | 60 | 18 |
| DO65855027 | 27 | A | 45 | 54 | 60 | 19 |
| DO65855028 | 28 | A | 46,5 | 54 | 62 | 19 |
| DO65855029 | 29 | A | 48 | 54 | 62 | 19 |
| DO65855030 | 30 | A | 50 | 54 | 62 | 21 |
| DO65855031 | 31 | A | 51 | 54 | 62 | 21 |
| DO65855032 | 32 | A | 52 | 54 | 62 | 22 |
| DO65855033 | 33 | A | 53 | 54 | 62 | 22 |
| DO65855034 | 34 | C | 55 | 54 | 62 | 22 |
| DO65855035 | 35 | C | 56 | 54 | 65 | 22 |
| DO65855036 | 36 | C | 57 | 54 | 67 | 24 |
| DO65855037 | 37 | C | 59 | 54 | 67 | 24 |
| DO65855038 | 38 | C | 60 | 54 | 67 | 24 |
| DO65855039 | 39 | C | 61 | 54 | 70 | 24 |
| DO65855040 | 40 | C | 62 | 54 | 70 | 24 |
| DO65855041 | 41 | C | 63,5 | 54 | 70 | 27 |
| DO65855042 | 42 | C | 65 | 54 | 74 | 27 |
| DO65855043 | 43 | C | 66 | 54 | 74 | 27 |
| DO65855044 | 44 | C | 67 | 54 | 74 | 27 |

12-POINT NORMAL (CONTINUED) 12-KANT NORMAL (FORTSETZUNG) 12-PANS NORMALE (SUITE)

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|----|
| Metrical · Metrisch · Métriques | | | | | | |
| DO65855045 | 45 | C | 68 | 54 | 74 | 27 |
| DO65855046 | 46 | C | 70 | 58 | 76 | 30 |
| DO65855047 | 47 | C | 71,5 | 58 | 76 | 30 |
| DO65855048 | 48 | C | 72,5 | 58 | 76 | 30 |
| DO65855050 | 50 | C | 75 | 62 | 80 | 32 |
| DO65855051 | 51 | C | 76 | 62 | 80 | 32 |
| DO65855052 | 52 | C | 77 | 62 | 84 | 32 |
| DO65855053 | 53 | C | 78 | 62 | 84 | 32 |
| DO65855054 | 54 | C | 80 | 62 | 84 | 32 |
| DO65855055 | 55 | C | 81 | 62 | 84 | 35 |
| DO65855056 | 56 | C | 82 | 62 | 84 | 35 |
| DO65855057 | 57 | C | 84 | 62 | 84 | 35 |
| DO65855058 | 58 | C | 85 | 62 | 87 | 37 |
| DO65855060 | 60 | C | 87 | 62 | 87 | 37 |
| DO65855062 | 62 | C | 89 | 62 | 87 | 37 |
| DO65855063 | 63 | C | 90 | 62 | 87 | 37 |
| DO65855065 | 65 | C | 93 | 62 | 90 | 40 |
| DO65855067 | 67 | C | 96 | 62 | 92 | 40 |
| DO65855070 | 70 | C | 100 | 62 | 96 | 40 |
| DO65855075 | 75 | C | 106 | 86 | 98 | 42 |
| DO65855076 | 76 | C | 107 | 86 | 100 | 45 |
| DO65855077 | 77 | C | 109 | 86 | 100 | 45 |
| DO65855078 | 78 | C | 110 | 86 | 100 | 45 |
| DO65855080 | 80 | C | 112 | 86 | 100 | 45 |
| DO65855085 | 85 | C | 118 | 86 | 105 | 52 |
| DO65855090 | 90 | C | 125 | 86 | 105 | 52 |
| DO65855095 | 95 | C | 131 | 86 | 105 | 52 |
| DO65855100 | 100 | C | 137 | 86 | 110 | 58 |
| DO65855105 | 105 | C | 143 | 95 | 110 | 58 |
| DO65855110 | 110 | C | 149 | 95 | 115 | 62 |
| DO65855115 | 115 | C | 155 | 95 | 115 | 62 |

IMPACT SOCKETS FOR AXIAL NUTS EINSÄTZE FÜR WELLENMUTTER DOUILLES POUR ÉCROU DE BLOCAGE AXIAL

| Type | Drawing | T mm | D1 mm | D2 mm | d1 mm | L2 mm | L mm |
|---------------------|---------|------|-------|-------|-------|-------|------|
| DO69715770KM14/70KM | S | 7,5 | 103 | 86 | 85,5 | 12 | 110 |
| DO69715775KM15/75KM | S | 7,5 | 109 | 86 | 91,5 | 13 | 110 |
| DO69715780KM16/80KM | S | 7,5 | 116 | 86 | 98,5 | 15 | 110 |
| DO69715785KM17/85KM | S | 7,5 | 121 | 86 | 103,5 | 16 | 110 |
| DO69715790KM18/90KM | S | 9,5 | 131 | 86 | 112,5 | 16 | 110 |



1" SQUARE DRIVE

VIERKANT | CARRÉ



12-POINT DEEP 12-KANT TIEF 12-PANS PROFONDE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|----|
| Metrical · Metrisch · Métriques | | | | | | |
| DO65857016 | 16 | A | 32 | 54 | 100 | 11 |
| DO65857017 | 17 | A | 34 | 54 | 100 | 11 |
| DO65857018 | 18 | A | 35 | 54 | 100 | 13 |
| DO65857019 | 19 | A | 36 | 54 | 100 | 13 |
| DO65857020 | 20 | A | 37 | 54 | 100 | 13 |
| DO65857021 | 21 | A | 38 | 54 | 100 | 15 |
| DO65857022 | 22 | A | 39 | 54 | 100 | 15 |
| DO65857023 | 23 | A | 40 | 54 | 100 | 15 |
| DO65857024 | 24 | A | 41 | 54 | 100 | 18 |
| DO65857025 | 25 | A | 43 | 54 | 100 | 18 |
| DO65857026 | 26 | A | 44,5 | 54 | 100 | 18 |
| DO65857027 | 27 | A | 45 | 54 | 100 | 19 |
| DO65857028 | 28 | A | 46,5 | 54 | 100 | 19 |
| DO65857029 | 29 | A | 48 | 54 | 100 | 19 |
| DO65857030 | 30 | A | 50 | 54 | 100 | 21 |
| DO65857031 | 31 | A | 51 | 54 | 100 | 21 |
| DO65857032 | 32 | A | 52 | 54 | 100 | 22 |
| DO65857033 | 33 | A | 53 | 54 | 100 | 22 |
| DO65857034 | 34 | C | 55 | 54 | 100 | 22 |
| DO65857035 | 35 | C | 56 | 54 | 100 | 22 |
| DO65857036 | 36 | C | 57 | 54 | 100 | 24 |
| DO65857037 | 37 | C | 59 | 54 | 100 | 24 |
| DO65857038 | 38 | C | 60 | 54 | 100 | 24 |
| DO65857039 | 39 | C | 61 | 54 | 100 | 24 |
| DO65857040 | 40 | C | 62 | 54 | 100 | 24 |
| DO65857041 | 41 | C | 63,5 | 54 | 100 | 27 |
| DO65857042 | 42 | C | 65 | 54 | 100 | 27 |
| DO65857043 | 43 | C | 66 | 54 | 100 | 27 |
| DO65857044 | 44 | C | 67 | 54 | 100 | 27 |
| DO65857045 | 45 | C | 68 | 54 | 100 | 27 |
| DO65857046 | 46 | C | 70 | 58 | 100 | 30 |
| DO65857047 | 47 | C | 71,5 | 58 | 100 | 30 |
| DO65857048 | 48 | C | 72,5 | 58 | 100 | 30 |
| DO65857050 | 50 | C | 75 | 62 | 100 | 32 |
| DO65857051 | 51 | C | 76 | 62 | 100 | 32 |
| DO65857052 | 52 | C | 77 | 62 | 100 | 32 |
| DO65857053 | 53 | C | 78 | 62 | 100 | 32 |
| DO65857054 | 54 | C | 80 | 62 | 100 | 32 |
| DO65857055 | 55 | C | 81 | 62 | 100 | 35 |
| DO65857056 | 56 | C | 82 | 62 | 105 | 35 |
| DO65857057 | 57 | C | 84 | 62 | 105 | 35 |
| DO65857058 | 58 | C | 85 | 62 | 105 | 37 |
| DO65857060 | 60 | C | 87 | 62 | 120 | 37 |
| DO65857062 | 62 | C | 89 | 62 | 120 | 37 |
| DO65857063 | 63 | C | 90 | 62 | 120 | 37 |
| DO65857065 | 65 | C | 93 | 62 | 125 | 40 |
| DO65857067 | 67 | C | 96 | 62 | 125 | 40 |
| DO65857070 | 70 | C | 100 | 62 | 125 | 40 |
| DO65857075 | 75 | C | 106 | 86 | 135 | 42 |
| DO65857076 | 76 | C | 107 | 86 | 135 | 45 |
| DO65857077 | 77 | C | 109 | 86 | 135 | 45 |
| DO65857078 | 78 | C | 110 | 86 | 135 | 45 |
| DO65857080 | 80 | C | 112 | 86 | 135 | 45 |

12-POINT DEEP (CONTINUED) 12-KANT TIEF (FORTSETZUNG) 12-PANS PROFONDE (SUITE)

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|----|
| Metrical · Metrisch · Métriques | | | | | | |
| DO65857085 | 85 | C | 118 | 86 | 140 | 52 |
| DO65857090 | 90 | C | 125 | 86 | 140 | 52 |
| DO65857095 | 95 | C | 131 | 86 | 140 | 52 |
| DO65857100 | 100 | C | 137 | 86 | 140 | 58 |
| DO65857105 | 105 | C | 143 | 95 | 155 | 58 |
| DO65857110 | 110 | C | 149 | 95 | 155 | 62 |
| DO65857115 | 115 | C | 155 | 95 | 155 | 62 |

HEX DRIVER (INBUS) L = 75 AUSSEN-6-KANT (INBUS) L = 75 EMPREINTE 6-PANS (INBUS) L = 75

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|---------------------------------|---------|-------|------|-------|----|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO64855014 | 14 | D | 54 | 75 | 20 | - |
| DO64855017 | 17 | D | 54 | 75 | 20 | - |
| DO64855019 | 19 | D | 54 | 75 | 20 | - |
| DO64855022 | 22 | D | 54 | 75 | 20 | - |
| DO64855024 | 24 | D | 54 | 75 | 20 | - |
| DO64855027 | 27 | D | 54 | 75 | 20 | - |
| DO64855030 | 30 | D | 54 | 75 | 20 | - |
| DO64855032 | 32 | D | 54 | 75 | 20 | - |
| DO64855036 | 36 | D | 54 | 75 | 20 | - |
| DO64855041 | 41 | D | 54 | 75 | 20 | - |
| DO64855046 | 46 | D | 54 | 75 | 20 | - |

HEX DRIVER (INBUS) L = 100 AUSSEN-6-KANT (INBUS) L = 100 EMPREINTE 6-PANS (INBUS) L = 100

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|---------------------------------|---------|-------|------|-------|----|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO696610A | 10 | D | 54 | 100 | 20 | - |
| DO696612A | 12 | D | 54 | 100 | 20 | - |
| DO696614A | 14 | D | 54 | 100 | 20 | - |
| DO696617A | 17 | D | 54 | 100 | 20 | - |
| DO696619A | 19 | D | 54 | 100 | 20 | - |
| DO696622A | 22 | D | 54 | 100 | 20 | - |
| DO696622B | 22 | D | 54 | 140 | 20 | - |
| DO696624A | 24 | D | 54 | 100 | 20 | - |
| DO696627A | 27 | D | 54 | 100 | 20 | - |
| DO696630A | 30 | D | 54 | 100 | 24 | - |
| DO696632A | 32 | D | 54 | 100 | 24 | - |
| DO696636A | 36 | D | 54 | 100 | 28 | - |

PIN & RING | RING & STIFT | JOINT TORIQUE CLAVETTE

| Type | D2 mm |
|--------------|-------|
| DO1100-0-000 | 54 |
| DO1100-0-086 | 86 |
| DO1100-0-095 | 95 |



1 1/2" SQUARE DRIVE

VIERKANT | CARRÉ



6-POINT NORMAL
6-KANT NORMAL
6-PANS NORMALE

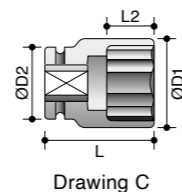
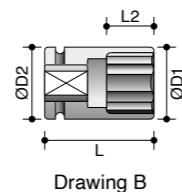
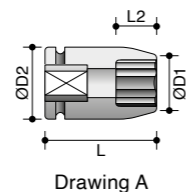
1

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO5112-0-030 | 30 A | 56 | 86 | 78 | 21 |
| DO5112-0-032 | 32 A | 58 | 86 | 78 | 22 |
| DO5112-0-035 | 35 A | 62 | 86 | 78 | 22 |
| DO5112-0-036 | 36 A | 64 | 86 | 78 | 24 |
| DO5112-0-037 | 37 A | 65 | 86 | 78 | 24 |
| DO5112-0-038 | 38 A | 66 | 86 | 78 | 26 |
| DO5112-0-040 | 40 A | 68 | 86 | 78 | 28 |
| DO5112-0-041 | 41 A | 70 | 86 | 80 | 28 |
| DO5112-0-045 | 45 A | 75 | 86 | 84 | 30 |
| DO5112-0-046 | 46 A | 76 | 86 | 84 | 30 |
| DO5112-0-047 | 47 A | 77 | 86 | 84 | 32 |
| DO5112-0-048 | 48 A | 79 | 86 | 84 | 32 |
| DO5112-0-050 | 50 A | 81 | 87 | 87 | 32 |
| DO5112-0-052 | 52 A | 83 | 86 | 87 | 34 |
| DO5112-0-054 | 54 B | 86 | 86 | 90 | 37 |
| DO5112-0-055 | 55 B | 86 | 86 | 90 | 37 |
| DO5112-0-056 | 56 B | 86 | 86 | 92 | 37 |
| DO5112-0-058 | 58 C | 92 | 86 | 92 | 39 |
| DO5112-0-060 | 60 C | 93 | 86 | 92 | 39 |
| DO5112-0-061 | 61 C | 95 | 86 | 95 | 42 |
| DO5112-0-062 | 62 C | 96 | 86 | 95 | 42 |
| DO5112-0-065 | 65 C | 97 | 86 | 95 | 42 |
| DO5112-0-068 | 68 C | 104 | 86 | 100 | 46 |
| DO5112-0-070 | 70 C | 105 | 86 | 100 | 46 |
| DO5112-0-072 | 72 C | 108 | 86 | 108 | 49 |
| DO5112-0-075 | 75 C | 110 | 86 | 108 | 49 |
| DO5112-0-078 | 78 C | 115 | 86 | 115 | 53 |
| DO5112-0-080 | 80 C | 116 | 86 | 115 | 53 |
| DO5112-0-085 | 85 C | 125 | 86 | 118 | 56 |
| DO5112-0-090 | 90 C | 130 | 86 | 123 | 59 |
| DO5112-0-095 | 95 C | 137 | 95 | 123 | 62 |
| DO5112-0-100 | 100 C | 140 | 95 | 130 | 65 |
| DO5112-0-105 | 105 C | 150 | 95 | 130 | 68 |
| DO5112-0-110 | 110 C | 156 | 95 | 135 | 72 |
| DO5112-0-115 | 115 C | 160 | 95 | 140 | 77 |
| DO5112-0-120 | 120 C | 175 | 95 | 135 | 65 |
| DO5112-0-125 | 125 C | 175 | 127 | 140 | 77 |

6-POINT DEEP
6-KANT TIEF
6-PANS PROFONDE

2

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO5112-1-036 | 36 A | 64 | 86 | 115 | 24 |
| DO5112-1-041 | 41 A | 70 | 86 | 115 | 28 |
| DO5112-1-042 | 42 A | 71 | 86 | 115 | 28 |
| DO5112-1-046 | 46 A | 76 | 86 | 115 | 30 |
| DO5112-1-050 | 50 A | 81 | 86 | 135 | 34 |
| DO5112-1-054 | 54 B | 86 | 86 | 140 | 37 |
| DO5112-1-055 | 55 B | 86 | 86 | 140 | 37 |
| DO5112-1-056 | 56 B | 88 | 86 | 140 | 37 |
| DO5112-1-060 | 60 C | 94 | 86 | 150 | 39 |
| DO5112-1-063 | 63 C | 97 | 86 | 150 | 42 |
| DO5112-1-065 | 65 C | 100 | 86 | 150 | 42 |
| DO5112-1-070 | 70 C | 106 | 86 | 160 | 46 |
| DO5112-1-075 | 75 C | 112 | 86 | 170 | 49 |
| DO5112-1-080 | 80 C | 119 | 86 | 170 | 53 |
| DO5112-1-085 | 85 C | 125 | 86 | 170 | 56 |
| DO5112-1-090 | 90 C | 131 | 86 | 170 | 59 |
| DO5112-1-095 | 95 C | 137 | 95 | 180 | 61 |
| DO5112-1-100 | 100 C | 144 | 95 | 190 | 65 |
| DO5112-1-105 | 105 C | 154 | 95 | 190 | 68 |
| DO5112-1-110 | 110 C | 157 | 95 | 200 | 72 |
| DO5112-1-115 | 115 C | 164 | 95 | 210 | 77 |
| DO5112-1-120 | 120 C | 167 | 95 | 210 | 77 |
| DO5112-1-125 | 125 C | 174 | 127 | 210 | 77 |



1 1/2" & 2 1/2" SQUARE DRIVE

VIERKANT | CARRÉ



1 1/2" Drive | Antrieb | Carré d'entraînement

2 1/2" Drive | Antrieb | Carré d'entraînement

HEX DRIVER (INBUS)
AUSSEN-6-KANT (INBUS)
EMPREINTE 6-PANS (INBUS)

1

| Type | Drawing | D2 mm | L mm | L1 mm |
|---------------------------------|---------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | |
| DO64866019 | 19 D | 86 | 105 | 20 |
| DO64866022 | 22 D | 86 | 105 | 20 |
| DO64866024 | 24 D | 86 | 105 | 20 |
| DO64866027 | 27 D | 86 | 105 | 20 |
| DO64866030 | 30 D | 86 | 105 | 20 |
| DO64866032 | 32 D | 86 | 105 | 20 |
| DO64866033 | 33 D | 86 | 105 | 20 |
| DO64866041 | 41 D | 86 | 105 | 20 |
| DO64866046 | 46 D | 86 | 105 | 20 |
| DO64866050 | 50 D | 86 | 105 | 20 |
| DO64866055 | 55 D | 86 | 105 | 20 |
| ... | | | | |
| DO64865019 | 19 D | 86 | 120 | 20 |
| DO64865022 | 22 D | 86 | 120 | 20 |
| DO64865024 | 24 D | 86 | 120 | 20 |
| DO64865027 | 27 D | 86 | 120 | 20 |
| DO64865030 | 30 D | 86 | 120 | 24 |
| DO64865032 | 32 D | 86 | 120 | 24 |
| DO64865033 | 33 D | 86 | 120 | 24 |
| DO64865036 | 36 D | 86 | 120 | 28 |
| DO64865038 | 38 D | 86 | 120 | 28 |
| DO64865041 | 41 D | 86 | 120 | 34 |
| DO64865046 | 46 D | 86 | 120 | 38 |
| DO64865050 | 50 D | 86 | 120 | 38 |
| DO64865055 | 55 D | 86 | 120 | 43 |

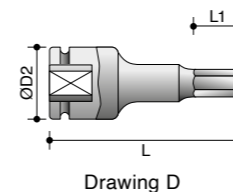
6-POINT NORMAL
6-KANT NORMAL
6-PANS NORMALE

2

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO6212-0-060 | 60 A | 99 | 127 | 125 | 37 |
| DO6212-0-065 | 65 A | 105 | 127 | 130 | 40 |
| DO6212-0-070 | 70 A | 110 | 127 | 130 | 40 |
| DO6212-0-075 | 75 A | 118 | 127 | 140 | 42 |
| DO6212-0-080 | 80 A | 124 | 127 | 140 | 45 |
| DO6212-0-085 | 85 C | 130 | 127 | 140 | 52 |
| DO6212-0-090 | 90 C | 136 | 127 | 145 | 52 |
| DO6212-0-095 | 95 C | 143 | 127 | 145 | 52 |
| DO6212-0-100 | 100 C | 149 | 127 | 150 | 58 |
| DO6212-0-105 | 105 C | 155 | 127 | 155 | 58 |
| DO6212-0-110 | 110 C | 161 | 127 | 160 | 60 |
| DO6212-0-115 | 115 C | 167 | 127 | 165 | 62 |
| DO6212-0-120 | 120 C | 176 | 127 | 170 | 67 |
| DO6212-0-125 | 125 C | 184 | 127 | 175 | 72 |
| DO6212-0-130 | 130 C | 188 | 152 | 175 | 72 |
| DO6212-0-135 | 135 C | 195 | 152 | 180 | 77 |
| DO6212-0-140 | 140 C | 204 | 152 | 180 | 77 |
| DO6212-0-145 | 145 C | 207 | 152 | 185 | 83 |
| DO6212-0-150 | 150 C | 214 | 152 | 185 | 83 |
| DO6212-0-155 | 155 C | 224 | 152 | 190 | 90 |
| DO6212-0-160 | 160 C | 227 | 152 | 190 | 90 |
| DO6212-0-165 | 165 C | 234 | 152 | 195 | 95 |
| DO6212-0-170 | 170 C | 244 | 152 | 195 | 95 |
| DO6212-0-175 | 175 C | 247 | 152 | 200 | 100 |
| DO6212-0-180 | 180 C | 254 | 152 | 200 | 100 |
| DO6212-0-185 | 185 C | 257 | 152 | 210 | 105 |
| DO6212-0-190 | 190 C | 265 | 152 | 210 | 105 |
| DO6212-0-200 | 200 C | 275 | 152 | 220 | 110 |

PIN & RING | RING & STIFT | JOINT TORIQUE CLAVETTE

| Type | D2 mm |
|--------------|-------|
| DO1112-0-000 | 86 |
| DO1112-0-095 | 95 |
| DO1112-0-127 | 127 |



PIN & RING | RING & STIFT | JOINT TORIQUE CLAVETTE

| Type |
|--------------|
| DO2112-0-000 |





MOKOTA



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4



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ADAPTORS

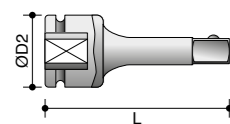
ADAPTER | ADAPTATEURS



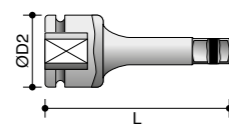
EXTENSION BARS WITH PIN HOLE
VERLÄNGERUNGEN MIT STIFTLOCH
RALLONGES À CLIQUET FEMELLE

| Type | Drawing | D2 mm | L mm |
|--------------------|---------|-------|------|
| SAE · Zoll · Pouce | | | |
| DO7014-0-050 | 1/4" | BX | 13 |
| DO7014-0-100 | 1/4" | BX | 13 |
| DO7014-0-150 | 1/4" | BX | 13 |
| DO7038-0-075 | 3/8" | BX | 19 |
| DO7038-0-100 | 3/8" | BX | 19 |
| DO7038-0-125 | 3/8" | BX | 19 |
| DO7038-0-150 | 3/8" | BX | 19 |
| DO7038-0-200 | 3/8" | BX | 19 |
| DO7038-0-250 | 3/8" | BX | 19 |
| DO7012-0-075 | 1/2" | BX | 25 |
| DO7012-0-100 | 1/2" | BX | 25 |
| DO7012-0-125 | 1/2" | BX | 25 |
| DO7012-0-150 | 1/2" | BX | 25 |
| DO7012-0-175 | 1/2" | BX | 25 |
| DO7012-0-200 | 1/2" | BX | 25 |
| DO7012-0-250 | 1/2" | BX | 25 |
| DO7012-0-300 | 1/2" | BX | 25 |
| DO7012-0-460 | 1/2" | BX | 25 |
| DO7012-0-610 | 1/2" | BX | 25 |
| DO7012-0-915 | 1/2" | BX | 25 |
| DO7034-0-075 | 3/4" | BX | 44 |
| DO7034-0-100 | 3/4" | BX | 44 |
| DO7034-0-125 | 3/4" | BX | 44 |
| DO7034-0-150 | 3/4" | BX | 44 |
| DO7034-0-175 | 3/4" | BX | 44 |
| DO7034-0-200 | 3/4" | BX | 44 |
| DO7034-0-250 | 3/4" | BX | 44 |
| DO7034-0-330 | 3/4" | BX | 44 |
| DO7034-0-400 | 3/4" | BX | 44 |
| DO7100-0-075 | 1" | BX | 54 |
| DO7100-0-100 | 1" | BX | 54 |
| DO7100-0-125 | 1" | BX | 54 |
| DO7100-0-150 | 1" | BX | 54 |
| DO7100-0-175 | 1" | BX | 54 |
| DO7100-0-200 | 1" | BX | 54 |
| DO7100-0-250 | 1" | BX | 54 |
| DO7100-0-300 | 1" | BX | 54 |
| DO7100-0-330 | 1" | BX | 54 |
| DO7100-0-350 | 1" | BX | 54 |
| DO7100-0-400 | 1" | BX | 54 |
| DO7112-0-125 | 1 1/2" | BX | 86 |
| DO7112-0-250 | 1 1/2" | BX | 86 |
| DO7112-0-500 | 1 1/2" | BX | 86 |
| DO7212-0-250 | 2 1/2" | BX | 127 |
| DO7212-0-500 | 2 1/2" | BX | 127 |

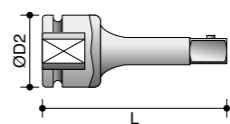
Rings and pins are not standard. Please order separately.



Drawing AX



Drawing BX



Drawing CX

EXTENSION BARS WITH STEEL BALL RETAINER
VERLÄNGERUNGEN MIT KUGELSICHERUNG
RALLONGES À CLIQUET BILLE D'ACIER

| Type | Drawing | D2 mm | L mm |
|--------------------|---------|-------|------|
| SAE · Zoll · Pouce | | | |
| DO6862075 | 3/8" | AX | 19 |
| DO6862100 | 3/8" | AX | 19 |
| DO6862125 | 3/8" | AX | 19 |
| DO6862150 | 3/8" | AX | 19 |
| DO6862250 | 3/8" | AX | 19 |
| DO6863075 | 1/2" | AX | 25 |
| DO6863100 | 1/2" | AX | 25 |
| DO6863125 | 1/2" | AX | 25 |
| DO6863250 | 1/2" | AX | 25 |

EXTENSION BAR WITH LOCK PIN RETAINER
VERLÄNGERUNGEN MIT SICHERUNGSSTIFT
RALLONGES À CLIQUET MÂLE

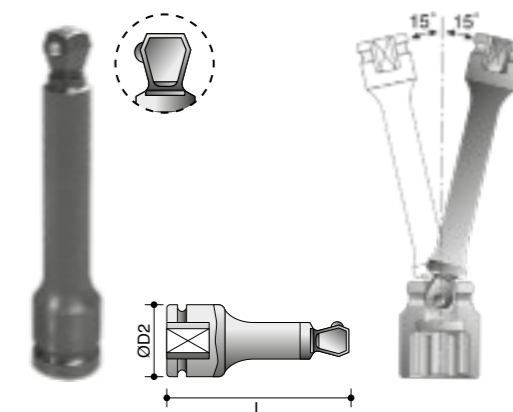
| Type | Drawing | D2 mm | L mm |
|--------------------|---------|-------|------|
| SAE · Zoll · Pouce | | | |
| DO64514075 | 3/8" | CX | 19 |
| DO64514100 | 3/8" | CX | 19 |
| DO64514125 | 3/8" | CX | 19 |
| DO64514150 | 3/8" | CX | 19 |
| DO64514200 | 3/8" | CX | 19 |
| DO64514250 | 3/8" | CX | 19 |
| DO64524075 | 1/2" | CX | 25 |
| DO64524100 | 1/2" | CX | 25 |
| DO64524125 | 1/2" | CX | 25 |
| DO64524150 | 1/2" | CX | 25 |
| DO64524200 | 1/2" | CX | 25 |
| DO64524250 | 1/2" | CX | 25 |
| DO64524460 | 1/2" | CX | 25 |

ADAPTORS

ADAPTER | ADAPTATEURS

WOBBLE EXTENSION BARS
WOBBLE-VERLÄNGERUNGEN
RALLONGES WOBBLE

| Type | Drawing | D2 mm | L mm | Type |
|--------------------|---------|-------|------|---------------------|
| SAE · Zoll · Pouce | | | | |
| DO6450F050 | 1/4" | 1/4" | 13 | Steel ball retainer |
| DO6450F075 | 1/4" | 1/4" | 13 | Steel ball retainer |
| DO6450F100 | 1/4" | 1/4" | 13 | Steel ball retainer |
| DO6451F050 | 3/8" | 3/8" | 19 | Steel ball retainer |
| DO6451F075 | 3/8" | 3/8" | 19 | Steel ball retainer |
| DO6451F100 | 3/8" | 3/8" | 19 | Steel ball retainer |
| DO6451F200 | 3/8" | 3/8" | 19 | Steel ball retainer |
| DO6452F075 | 1/2" | 1/2" | 25 | Steel ball retainer |
| DO6452F125 | 1/2" | 1/2" | 25 | Steel ball retainer |
| DO6452F150 | 1/2" | 1/2" | 25 | Steel ball retainer |
| DO6452F200 | 1/2" | 1/2" | 25 | Steel ball retainer |



JOINTS | KUGELGELENKE | CARDANS

UNIVERSAL JOINTS WITH STEEL BALL
KUGELGELENKE MIT KUGELSICHERUNG
CARDANS À CLIQUET MÂLE

| Type | Drawing | D2 mm | L mm | | |
|--------------------|---------|-------|------|----|----|
| SAE · Zoll · Pouce | | | | | |
| DO6781F1T | 1/4" | 1/4" | AJ | 16 | 43 |
| DO6782F2T | 3/8" | 3/8" | AJ | 24 | 50 |
| DO6783F3T | 1/2" | 1/2" | AJ | 32 | 60 |
| DO6784F4T | 3/4" | 3/4" | AJ | 44 | 90 |

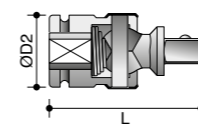


UNIVERSAL JOINTS WITH PIN HOLE
KUGELGELENKE MIT STIFTLOCH
CARDANS À CLIQUET FEMELLE

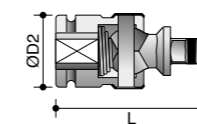
| Type | Drawing | D2 mm | L mm | | |
|--------------------|---------|--------|------|----|-----|
| SAE · Zoll · Pouce | | | | | |
| DO64302008 | 1/4" | 1/4" | BJ | 16 | 43 |
| DO9038-0-000 | 3/8" | 3/8" | BJ | 24 | 50 |
| DO9012-0-000 | 1/2" | 1/2" | BJ | 32 | 60 |
| DO9034-0-000 | 3/4" | 3/4" | BJ | 44 | 90 |
| DO9100-0-000 | 1" | 1" | BJ | 54 | 110 |
| DO9112-0-000 | 1 1/2" | 1 1/2" | BJ | 86 | 182 |



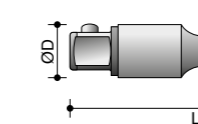
Rings and pins are not standard. Please order separately.



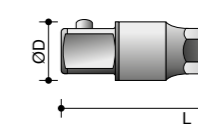
Drawing AJ



Drawing BJ



Drawing CD



Drawing DD

ADAPTORS | ADAPTER | ADAPTATEURS

ADAPTORS EXT. SQUARE - EXTERNAL HEX
VERBINDUNGSTEIL MIT AUSSENVIERKANT
ADAPTATEURS D'IMPACT

| Type | Drawing | D mm | L mm | | |
|--------------------|---------|-------|------|----|-----|
| SAE · Zoll · Pouce | | | | | |
| DO69306050 | 1/4" | 1/4" | CD | 9 | 50 |
| DO69306075 | 1/4" | 1/4" | CD | 9 | 75 |
| DO69306100 | 1/4" | 1/4" | CD | 9 | 100 |
| DO69306150 | 1/4" | 1/4" | CD | 9 | 150 |
| DO69316050 | 3/8" | 1/4" | CD | 13 | 50 |
| DO69316075 | 3/8" | 1/4" | CD | 13 | 75 |
| DO69316100 | 3/8" | 1/4" | CD | 13 | 100 |
| DO69318075 | 3/8" | 7/16" | DD | 13 | 75 |
| DO6932E050 | 1/2" | 1/4" | CD | 17 | 50 |
| DO69328075 | 1/2" | 7/16" | DD | 17 | 75 |



ADAPTORS

ADAPTER | ADAPTATEURS



ADAPTORS WITH PIN HOLE
ADAPTER MIT STIFTLOCH
ADAPTATEURS À CLIQUET FEMELLE

| Type | Drawing | D2 mm | L mm |
|--------------|---------|-------|------|
| DO8014-0-038 | 1/4" | 13 | 26 |
| DO8038-0-014 | 3/8" | 22 | 32 |
| DO8038-0-012 | 3/8" | 22 | 36 |
| DO8012-0-034 | 1/2" | 30 | 48 |
| DO8012-0-038 | 1/2" | 26 | 38 |
| DO8034-0-012 | 3/4" | 40 | 58 |
| DO8034-0-100 | 3/4" | 40 | 63 |
| DO8100-0-034 | 1" | 52 | 80 |
| DO8100-0-112 | 1" | 52 | 91 |
| DO8112-0-100 | 1 1/2" | 84 | 95 |
| DO8112-0-212 | 1 1/2" | 86 | 120 |
| DO8134-0-112 | 1 3/4" | 127 | 153 |
| DO8212-0-112 | 2 1/2" | 127 | 138 |



HEX DRIVERS - 7/16"
SECHSKANTBITS - 7/16"
EMBOUS HEXAGONAL - 7/16"

| Type | Drawing | L1 mm | L mm |
|---------------------------------|---------|-------|------|
| Metrical · Metrisch · Métriques | | | |
| DO697RG606 | 7/16" | 6 | 60 |
| DO697RG608 | 7/16" | 8 | 60 |
| DO697RG610 | 7/16" | 10 | 60 |
| DO697RG612 | 7/16" | 12 | 60 |
| DO697RG614 | 7/16" | 14 | 60 |
| DO697RG617 | 7/16" | 17 | 60 |

TRIPLE SQUARE BITS - 7/16"
XZN-BITS - 7/16"
EMBOUS CARRE TRIPLE - 7/16"

| Type | Drawing | L1 mm | L mm |
|---------------------------------|---------|-------|------|
| Metrical · Metrisch · Métriques | | | |
| DO698JG110 | 7/16" | 9 | 60 |

INTERNAL TORX®BITS - 7/16" DRIVE
6-KANT-TORX®-INNEN-BITS - 7/16"
EMBOUS TORX®INTERIEURE - 7/16"

| Type | Drawing | L1 mm | L mm |
|------------|---------|-------|------|
| DO697LG130 | 7/16" | 3,8 | 60 |
| DO697LG140 | 7/16" | 3,8 | 60 |
| DO697LG145 | 7/16" | 4,3 | 60 |
| DO697LG150 | 7/16" | 5 | 60 |
| DO697LG155 | 7/16" | 5,5 | 60 |
| DO697LG160 | 7/16" | 8 | 60 |

*Also available as set DO691121301, see page 58.

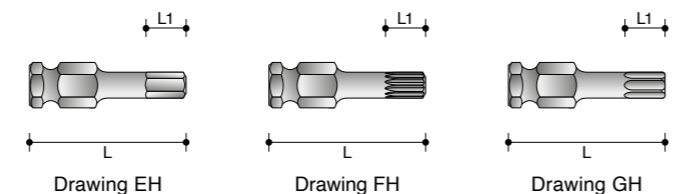
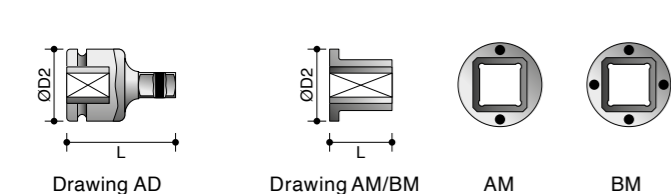
ADAPTORS WITH STEEL BALL
ADAPTER MIT KUGELSICHERUNG
ADAPTATEURS À CLIQUET MÂLE

| Type | Drawing | D2 mm | L mm |
|------------|---------|-------|------|
| DO64001012 | 1/4" | 13,6 | 26 |
| DO64011008 | 3/8" | 22 | 32 |
| DO6822F3T | 3/8" | 22 | 36 |
| DO6823F2T | 1/2" | 25 | 38 |
| DO64021024 | 1/2" | 30 | 48 |
| DO6815L3T | 3/4" | 44 | 56 |
| DO64041100 | 3/4" | 40 | 63 |
| DO64051024 | 1" | 54 | 75 |

MAGNETIC REDUCING ADAPTORS
MAGNETISCHE ADAPTER
ADAPTATEURS MAGNÉTIQUE

| Type | Drawing | D2 mm | L mm |
|------------|---------|-------|------|
| DO69880P12 | 1/4" | 19 | 17 |
| DO69880P16 | 1/4" | 25 | 22 |
| DO69881P16 | 3/8" | 25 | 22 |
| DO69882P20 | 1/2" | 35 | 23 |
| DO69882P24 | 1/2" | 44 | 30 |
| DO69884P32 | 3/4" | 54 | 35 |
| DO69885P48 | 1" | 86 | 50 |
| DO69886P80 | 1 1/2" | 127 | 59 |
| DO69888P01 | 2 1/2" | 176 | 95 |

The magnetic sleeve adaptors allow the temporary use of bigger impact sockets on smaller tools. By means of magnet, chances of losing the adaptor are reduced. Especially well suited for the service kit of a traveling mechanic tasked with the servicing of heavy equipment.



ADAPTORS

ADAPTER | ADAPTATEURS



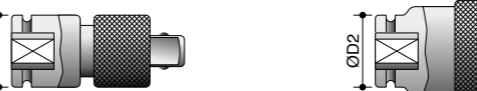
QUICK CHANGE ADAPTORS
SCHNELLWECHSELHALTER
ADAPTATEURS À CHANGEMENT RAPIDE

| Type | Drawing | D2 mm | L mm |
|------------|---------|-------|------|
| DO69110C08 | AQ | 13 | 35 |
| DO69110C12 | AQ | 13 | 42 |
| DO69111C12 | AQ | 19 | 46 |
| DO69111C16 | AQ | 22 | 60 |
| DO69112C12 | AQ | 25 | 54 |
| DO69112C16 | AQ | 25 | 60 |
| DO69114C16 | AQ | 44 | 70 |
| DO69114C24 | AQ | 44 | 78 |
| DO69115C24 | AQ | 54 | 90 |
| DO69115C32 | AQ | 54 | 100 |
| DO69115C64 | AQ | 54 | 300 |

QUICK CHANGE BIT HOLDER
SCHNELLWECHSELBITHALTER
ADAPTATEURS À CHANGEMENT RAPIDE D'EMBOUT

| Type | Drawing | D2 mm | L mm | Bit holder |
|--------------------|---------|-------|------|------------|
| SAE · Zoll · Pouce | | | | |
| DO69114A14 | BQ | 44 | 67 | E |
| DO69111A08 | BQ | 19 | 45 | E |
| DO69111A14 | BQ | 22 | 51 | E |
| DO69112A14 | BQ | 25 | 54 | E |

BIT HOLDER E
WECHSELHALTER E
PORTE-EMBOUT E



Drawing AQ Drawing BQ

BIT HOLDER F
WECHSELHALTER F
PORTE-EMBOUT F



Drawing CQ Drawing DQ

QUICK CHANGE BIT HOLDER
SCHNELLWECHSELBITHALTER
ADAPTATEURS À CHANGEMENT RAPIDE D'EMBOUT

| Type | Drawing | D2 mm | L mm | Bit holder |
|------------|---------|-------|------|------------|
| DO69121B08 | CQ | 19 | 33 | F |
| DO69122B08 | CQ | 25 | 41 | F |

BIT HOLDER
ADAPTER ANTRIEBS-4-KANT AUF BITHALTER (6-KANT)
MANDRINS À CHOCS (6-PANS)

| Type | Drawing | D1 mm | D2 mm | L mm | Bit holder |
|--------------------|---------|-------|-------|------|------------|
| SAE · Zoll · Pouce | | | | | |
| DO69121008 | DQ | 12,5 | 19 | 32 | F |
| DO69121010 | DQ | 14 | 19 | 37 | F |
| DO69121016 | DQ | 19 | 19 | 37 | F |
| DO69122008 | DQ | 12,5 | 25 | 40 | F |
| DO69122010 | DQ | 15,5 | 25 | 40 | F |
| DO69122016 | DQ | 20 | 25 | 40 | F |

PIN & RING

RING & STIFT & FEDERRING | JOINT TORIQUE CLAVETTE

*Pin & ring | Ring & stift
Joint torique clavette*



*Retring | Federring
Anneau de retenue*



PIN & RING | RING & STIFT | JOINT TORIQUE CLAVETTE

| Drive | Type | Diameter socket (D2) see NOTE |
|--------|--------------|----------------------------------|
| 1/4" | DO1014-0-000 | 13 mm |
| 3/8" | DO1038-0-000 | 19 & 22 mm (set) |
| 1/2" | DO1012-0-000 | 25 & 30 mm (set) |
| 3/4" | DO1034-0-000 | 44 mm |
| 1" | DO1100-0-000 | 54 mm |
| | DO1100-0-086 | 86 mm |
| | DO1100-0-095 | 95 mm |
| 1 1/2" | DO1112-0-000 | 86 mm |
| | DO1112-0-095 | 95 mm |
| | DO1112-0-127 | 127 mm |
| 2 1/2" | DO2112-0-000 | 152 mm |
| | DO2112-0-127 | 127 mm |

NOTE: These sizes are not those of the O-ring but are based on the D2 dimensions of the socket.
HINWEIS: Diese Angaben sind nicht der Durchmesser des O-Rings, sondern die D2-Abmessung des Kraftsteckschlüssels.
NOTE: Ces dimensions ne sont pas la taille du joint torique, mais sont basés sur les dimensions D2 de la douille.

RETRING | FEDERRING | ANNEAU DE RETENUE

| Type | D2 mm | |
|----------|----------|-----------|
| DO10032S | 36,5 | 3/4" |
| DO18708S | 44,5 | 3/4" |
| DO18715S | 53,9 | 3/4" & 1" |
| DO10008S | 44,5 | 1" |
| DO10021S | 76,2 | 1 1/2" |
| DO10025S | 85,7 | 1 1/2" |



STEP · SCHRITT · ÉTAPE 1
Place socket retainer over square driver. Place socket on square driver aligning retention holes. Hold center pin of retainer between thumb and index finger, and insert it into the retention holes.

Setzen Sie den Federring über den Antriebsvierkant. Setzen Sie die Kraftstecknuss in Richtung der Haltelöcher. Halten Sie den Mittelstift des Federrings zwischen Daumen und Zeigefinger und stecken ihn durch das Halteloch.

Placez l'anneau de retenue sur le carré d'entraînement. Mettez la douille sur le carré en alignant les trous de retenue.



STEP · SCHRITT · ÉTAPE 2
Push center pin of socket retainer all the way in.

Stecken Sie den Mittelstift ganz durch.
Prenez la tige de retenue entre le pouce et l'index et entrez la au travers des trous.



STEP · SCHRITT · ÉTAPE 3
Pull O-ring of socket retainer up into groove socket.
Ziehen Sie den O-Ring des Federrings hoch in die Nut des Kraftsteckschlüssels.
Tirer le joint torique maintenant à l'endroit désiré.

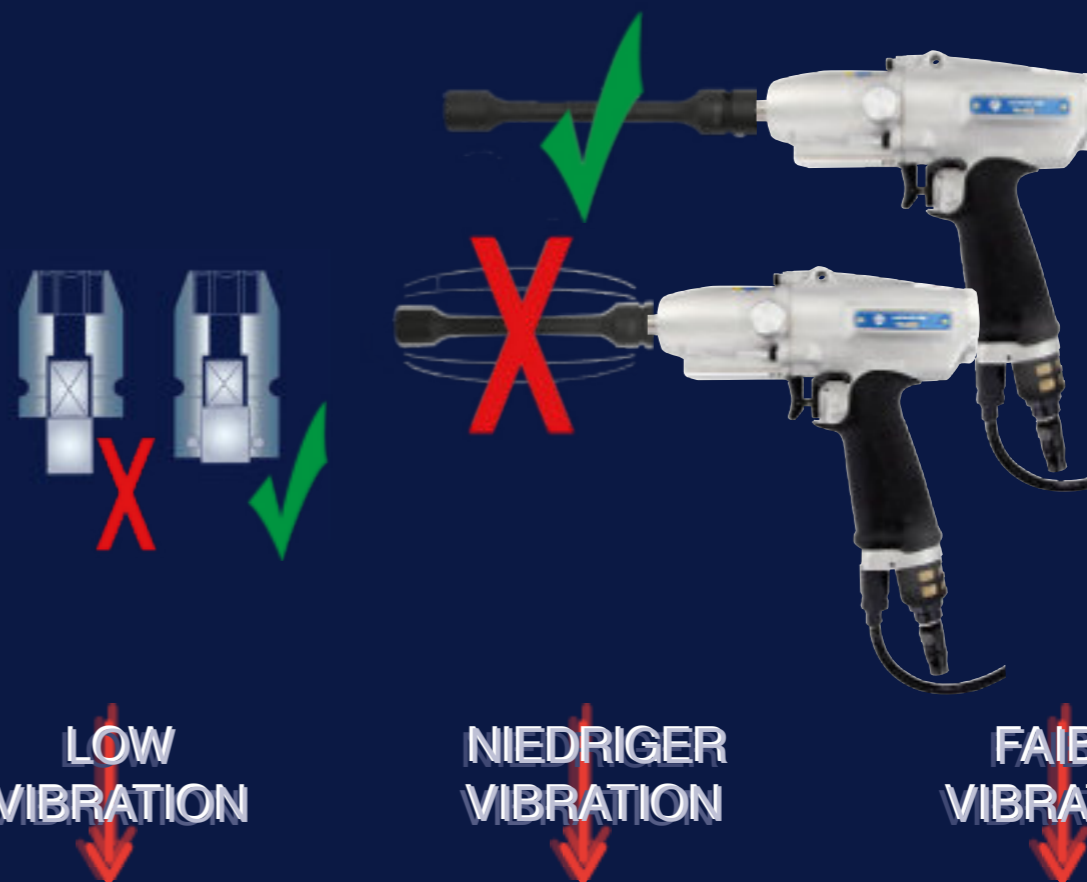
SLEEVE DRIVE IMPACT SOCKET

SPINDELGEFÜHRTE STECKSCHLÜSSEL | DOUILLES GUIDÉES

Sleeve drive impact sockets have been developed for us by ACTION. Sleeve drive sockets improve the quality of a joint tightened with an impulse wrench. They minimize the play between the socket and the tool thus reducing 'wobble' and stabilizing the torque setting. The use of sleeve drive sockets is not only of benefit to the actual joint but it also reduces vibration to the tool and operator, reduces noise and prevents fast wearing of the tool.

Kraftsteckschlüssel mit Spindel-führung wurden auf unseren Wunsch durch Action entwickelt, um die Qualität der Schraub-verbinding mit Impulsschraubern zu verbessern. Spindelgeführte Steckschlüssel haben ein minimales Spiel zwischen Kraftsteckschlüssel und Antriebsspindel. Dadurch wird das 'Wackeln' reduziert und die Drehmomentverluste werden geringer. Der Einsatz von spindel-geführten Steckschlüsseln bietet nicht nur Vorteile für die Verschraubung, sondern vermindert auch den Geräuschpegel und Verschleiß sowie die Vibration der Maschine für den Anwender.

Les douilles guidées ont été développées par Action à la demande de Yokota pour améliorer la qualité d'un assemblage vissé avec des visseuses à impulsions. Les douilles guidées minimisent le jeu entre la douille et la visseuse réduisant ainsi l'oscillation et stabilisant le couple réglé. L'utilisation des douilles guidées améliore la qualité d'assemblage et réduit aussi la vibration dans la visseuse et dans la main de l'opérateur. On note également une réduction du bruit et de l'usure de l'outil. Des douilles usées sont la cause de perte de puissance, usure du carré d'entraînement de l'outil et augmentation des vibrations et bruits pour l'opérateur. Remplacer vos douilles usées à temps.



SLEEVE DRIVE IMPACT SOCKETS GUARANTEE:

- Reduced vibration
- Accurate torque
- Noise reduction
- Less wear

SPINDELGEFÜHRTE KRAFTSTECKSCHLÜSSEL GARANTIEREN:

- Verbesserung des Drehmoments
- Reduzierte Vibration
- Reduzierten Geräuschpegel
- Reduzierten Verschleiß

LES DOUILLES GUIDÉES GARANTISSENT :

- Amélioration du couple
- Réduction des vibrations
- Niveau de bruit réduit
- Usure réduite

3/8" SLEEVEDRIVE

SPINDELGEFÜHRTE STECKSCHLÜSSEL | DOUILLES GUIDÉES

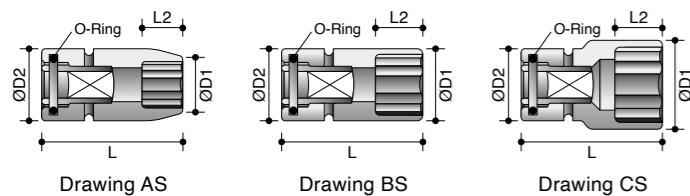


6-POINT NORMAL 6-KANT NORMAL 6-PANS NORMALE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|----|
| Metrical · Metrisch · Métriques | | | | | | |
| DO60910006 | 6 | AS | 11 | 19 | 43 | 5 |
| DO60910008 | 8 | AS | 13 | 19 | 43 | 7 |
| DO60910009 | 9 | AS | 15 | 19 | 43 | 7 |
| DO60910010 | 10 | AS | 16 | 19 | 43 | 8 |
| DO60910011 | 11 | AS | 17,5 | 19 | 43 | 9 |
| DO60910012 | 12 | BS | 19 | 19 | 43 | 9 |
| DO60910013 | 13 | AS | 20 | 22 | 43 | 9 |
| DO60910014 | 14 | AS | 21 | 22 | 43 | 9 |
| DO60910015 | 15 | BS | 22 | 22 | 43 | 11 |
| DO60910016 | 16 | CS | 24 | 22 | 43 | 11 |
| DO60910017 | 17 | CS | 25 | 22 | 43 | 11 |
| DO60910018 | 18 | CS | 26 | 22 | 43 | 11 |
| DO60910019 | 19 | CS | 27,5 | 22 | 43 | 11 |
| DO60910021 | 21 | CS | 30 | 22 | 43 | 13 |

6-POINT MAGNETIC 6-KANT NORMAL MAGNETISCH 6-PANS NORMALE MAGNÉTIQUE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|----|
| Metrical · Metrisch · Métriques | | | | | | |
| DO6091A006 | 6 | AS | 11 | 19 | 43 | 5 |
| DO6091A007 | 7 | AS | 12 | 19 | 43 | 5 |
| DO6091A008 | 8 | AS | 13 | 19 | 43 | 7 |
| DO6091A009 | 9 | AS | 15 | 19 | 43 | 7 |
| DO6091A010 | 10 | AS | 16 | 19 | 43 | 8 |
| DO6091A011 | 11 | AS | 17,5 | 19 | 43 | 9 |
| DO6091A012 | 12 | BS | 18,5 | 19 | 43 | 9 |
| DO6091A013 | 13 | AS | 20 | 22 | 43 | 9 |
| DO6091A014 | 14 | AS | 21 | 22 | 43 | 9 |
| DO6091A016 | 16 | CS | 24 | 22 | 43 | 11 |
| DO6091A017 | 17 | CS | 25 | 22 | 43 | 11 |
| DO6091A018 | 18 | CS | 26 | 22 | 43 | 11 |
| DO6091A019 | 19 | CS | 27 | 22 | 43 | 11 |
| DO6091A020 | 20 | CS | 28 | 22 | 43 | 13 |
| DO6091A021 | 21 | CS | 30 | 22 | 43 | 13 |
| DO6091A022 | 22 | CS | 31 | 22 | 50 | 13 |
| DO6091A023 | 23 | CS | 32 | 22 | 50 | 13 |
| DO6091A024 | 24 | CS | 34 | 22 | 50 | 13 |
| DO6091A025 | 25 | CS | 35 | 22 | 50 | 13 |
| DO6091A026 | 26 | CS | 36 | 22 | 50 | 13 |
| DO6091A027 | 27 | CS | 38 | 22 | 50 | 13 |



6-POINT LONG 6-KANT LANG 6-PANS LONGUE

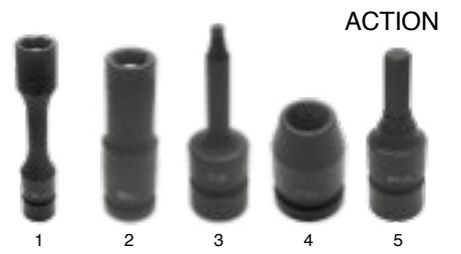
| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|----|
| Metrical · Metrisch · Métriques | | | | | | |
| DO60913006 | 6 | DS | 10,5 | 22 | 100 | 4 |
| DO60913008 | 8 | DS | 12,5 | 22 | 100 | 8 |
| DO60913010 | 10 | DS | 15 | 22 | 100 | 8 |
| DO60913012 | 12 | DS | 18 | 22 | 100 | 9 |
| DO60913013 | 13 | DS | 19 | 22 | 100 | 9 |
| DO60913014 | 14 | DS | 20 | 22 | 100 | 9 |
| DO60913015 | 15 | DS | 21 | 22 | 100 | 11 |
| DO60913016 | 16 | DS | 22,5 | 22 | 100 | 11 |
| DO60913017 | 17 | DS | 24 | 22 | 100 | 11 |
| | | | | | | |
| DO60914006 | 6 | DS | 10,5 | 22 | 150 | 4 |
| DO60914008 | 8 | DS | 12,5 | 22 | 150 | 8 |
| DO60914010 | 10 | DS | 15 | 22 | 150 | 8 |
| DO60914012 | 12 | DS | 18 | 22 | 150 | 9 |
| DO60914013 | 13 | DS | 19 | 22 | 150 | 9 |
| DO60914014 | 14 | DS | 20 | 22 | 150 | 9 |
| DO60914015 | 15 | DS | 21 | 22 | 150 | 11 |
| DO60914016 | 16 | DS | 22,5 | 22 | 150 | 11 |
| DO60914017 | 17 | DS | 24 | 22 | 150 | 11 |
| | | | | | | |
| DO60915006 | 6 | DS | 10,5 | 22 | 200 | 4 |
| DO60915008 | 8 | DS | 12,5 | 22 | 200 | 8 |
| DO60915010 | 10 | DS | 15 | 22 | 200 | 8 |
| DO60915012 | 12 | DS | 18 | 22 | 200 | 9 |
| DO60915013 | 13 | DS | 19 | 22 | 200 | 9 |
| DO60915014 | 14 | DS | 20 | 22 | 200 | 9 |
| DO60915015 | 15 | DS | 21 | 22 | 200 | 11 |
| DO60915016 | 16 | DS | 22,5 | 22 | 200 | 11 |
| DO60915017 | 17 | DS | 24 | 22 | 200 | 11 |
| DO60915019 | 19 | DS | 27 | 22 | 200 | 11 |

6-POINT MAGNETIC LONG 6-KANT LANG MAGNETISCH 6-PANS LONGUE MAGNÉTIQUE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO6091P006 | 6 | DS | 11 | 19 | 100 | 3 |
| DO6091P007 | 7 | DS | 12 | 19 | 100 | 3 |
| DO6091P008 | 8 | DS | 13 | 19 | 100 | 4 |
| DO6091P009 | 9 | DS | 15 | 19 | 100 | 4 |
| DO6091P010 | 10 | DS | 16 | 19 | 100 | 4 |
| DO6091P011 | 11 | DS | 17,5 | 19 | 100 | 5 |
| DO6091P012 | 12 | DS | 18,5 | 19 | 100 | 5 |
| DO6091P013 | 13 | DS | 20 | 22 | 100 | 6 |
| DO6091P014 | 14 | DS | 21 | 22 | 100 | 6 |
| DO6091P015 | 15 | DS | 22 | 22 | 100 | 7 |
| DO6091P016 | 16 | DS | 24 | 22 | 100 | 7 |
| DO6091P017 | 17 | DS | 25 | 22 | 100 | 7 |
| | | | | | | |
| DO6091R008 | 8 | DS | 13 | 19 | 150 | 4 |
| DO6091R010 | 10 | DS | 16 | 19 | 150 | 4 |
| DO6091R011 | 11 | DS | 17,5 | 19 | 150 | 5 |

3/8" SLEEVEDRIVE

SPINDELGEFÜHRTE STECKSCHLÜSSEL | DOUILLES GUIDÉES



6-POINT LONG MAGNETIC (CONTINUED) 6-KANT LANG MAGNETISCH (FORTSETZUNG) 6-PANS LONGUE MAGNÉTIQUE (SUITE)

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO6091R012 | 12 | DS | 18,5 | 19 | 150 | 5 |
| DO6091R013 | 13 | DS | 20 | 22 | 150 | 6 |
| DO6091R014 | 14 | DS | 21 | 22 | 150 | 6 |
| DO6091R015 | 15 | DS | 22 | 22 | 150 | 7 |
| DO6091R016 | 16 | DS | 24 | 22 | 150 | 7 |
| DO6091R017 | 17 | DS | 25 | 22 | 150 | 7 |
| | | | | | | |
| DO6091T008 | 8 | DS | 13 | 19 | 200 | 4 |
| DO6091T009 | 9 | DS | 15 | 19 | 200 | 4 |
| DO6091T010 | 10 | DS | 16 | 19 | 200 | 4 |
| DO6091T012 | 12 | DS | 18,5 | 19 | 200 | 5 |
| DO6091T013 | 13 | DS | 20 | 22 | 200 | 6 |
| DO6091T014 | 14 | DS | 21 | 22 | 200 | 6 |
| DO6091T015 | 15 | DS | 22 | 22 | 200 | 7 |

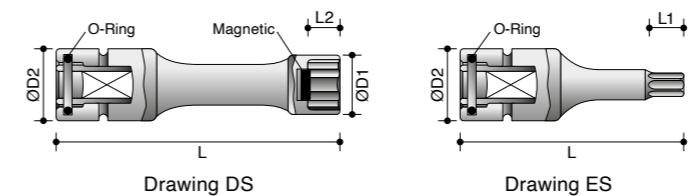
6-POINT DEEP MAGNETIC 6-KANT TIEF MAGNETISCH 6-PANS PROFONDE MAGNÉTIQUE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|---------------------------------|---------|-------|-------|------|-------|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO6091Q010 | 10 | FS | 16 | 19 | 100 | 5 |
| DO6091Q012 | 12 | FS | 18,5 | 19 | 100 | 6 |
| DO6091Q013 | 13 | FS | 20 | 22 | 100 | 6 |
| DO6091Q014 | 14 | FS | 21 | 22 | 100 | 6 |
| DO6091Q016 | 16 | FS | 24 | 22 | 100 | 7 |

TORX®INTERNAL TORX®INNEN TORX®INTÉRIEURE

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|------------|---------|-------|------|-------|-----|---|
| DO68811009 | T9 | ES | 22 | 75 | 2 | - |
| DO68811010 | T10 | ES | 22 | 75 | 2,8 | - |
| DO68811015 | T15 | ES | 22 | 75 | 2,8 | - |
| DO68811020 | T20 | ES | 22 | 75 | 2,8 | - |
| DO68811025 | T25 | ES | 22 | 75 | 3 | - |
| DO68811027 | T27 | ES | 22 | 75 | 3 | - |
| DO68811030 | T30 | ES | 22 | 75 | 3,8 | - |
| DO68811040 | T40 | ES | 22 | 75 | 3,8 | - |
| DO68811045 | T45 | ES | 22 | 75 | 4,3 | - |
| DO68811047 | T47 | ES | 22 | 75 | 5 | - |
| DO68811050 | T50 | ES | 22 | 75 | 5 | - |
| DO68811055 | T55 | ES | 22 | 75 | 5 | - |

Torx® is a trademark of Textron.



TORX®EXTERNAL TORX®AUSSEN TORX®EXTÉRIEURE

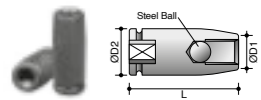
| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm | |
|------------|---------|-------|-------|------|-------|------|
| DO66910005 | E5 | AS | 8 | 19 | 43 | 4,5 |
| DO66910006 | E6 | AS | 9 | 19 | 43 | 5,0 |
| DO66910007 | E7 | AS | 9,5 | 19 | 43 | 6,0 |
| DO66910008 | E8 | AS | 11 | 19 | 43 | 6,5 |
| DO66910010 | E10 | AS | 13 | 19 | 43 | 7,5 |
| DO66910011 | E11 | AS | 14 | 19 | 43 | 8,0 |
| DO66910012 | E12 | AS | 15,5 | 19 | 43 | 8,5 |
| DO66910014 | E14 | AS | 17,5 | 22 | 43 | 10,0 |
| DO66910016 | E16 | AS | 18,5 | 22 | 43 | 11,0 |

Torx® is a trademark of Textron.

HEX DRIVER (INBUS) AUSSEN-6-KANT (INBUS) EMPREINTE 6-PANS (INBUS)

| Type | Drawing | D2 mm | L mm | L1 mm | - | |
|---------------------------------|---------|-------|------|-------|----|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO68916003 | 3 | ES | 22 | 75 | 11 | - |
| DO68916004 | 4 | ES | 22 | 75 | 11 | - |
| DO68916005 | 5 | ES | 22 | 75 | 11 | - |
| DO68916006 | 6 | ES | 22 | 75 | 11 | - |
| DO68916007 | 7 | ES | 22 | 75 | 16 | - |
| DO68916008 | 8 | ES | 22 | 75 | 16 | - |
| DO68916009 | 9 | ES | 22 | 75 | 16 | - |
| DO68916010 | 10 | ES | 22 | 75 | 16 | - |
| DO68916011 | 11 | ES | 22 | 75 | 16 | - |
| DO68916012 | 12 | ES | 22 | 75 | 16 | - |
| DO68916013 | 13 | ES | 22 | 75 | 16 | - |
| DO68916014 | 14 | ES | 22 | 75 | 16 | - |
| DO68916015 | 15 | ES | 22 | 75 | 16 | - |
| DO68916016 | 16 | ES | 22 | 75 | 16 | - |

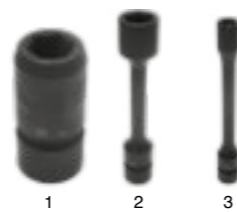
STUD BOLT SETTERS | STEHBOLZENSETZER | PRISE GOUJON



| Type | Size | D1 mm | D2 mm | L mm |
|------------|-----------|-------|-------|------|
| DO66A10062 | M6 x 1 | 12,5 | 22 | 50 |
| DO66A10083 | M8 x 1,25 | 15 | 22 | 50 |
| DO66A10104 | M10 x 1,5 | 17 | 22 | 50 |

1/2" SLEEVEDRIVE

SPINDELGEFÜHRTE STECKSCHLÜSSEL | DOUILLES GUIDÉES



6-POINT NORMAL 6-KANT NORMAL 6-PANS NORMALE

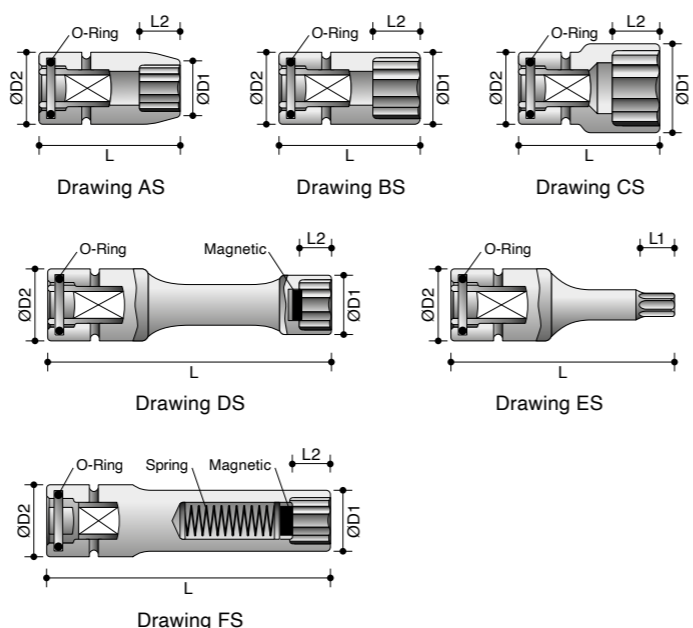
| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO60920012 | 12 AS | 20 | 25 | 52 | 12 |
| DO60920013 | 13 AS | 21 | 25 | 52 | 12 |
| DO60920014 | 14 AS | 22,5 | 25 | 52 | 12 |
| DO60920015 | 15 AS | 23,7 | 30 | 52 | 12 |
| DO60920016 | 16 AS | 25 | 30 | 52 | 12 |
| DO60920017 | 17 AS | 26 | 30 | 52 | 12 |
| DO60920018 | 18 AS | 27,5 | 30 | 52 | 12 |
| DO60920019 | 19 AS | 28,7 | 30 | 52 | 12 |
| DO60920021 | 21 BS | 30 | 30 | 52 | 12 |
| DO60920022 | 22 CS | 32 | 30 | 52 | 12 |
| DO60920023 | 23 CS | 32 | 30 | 52 | 12 |
| DO60920024 | 24 CS | 35 | 30 | 52 | 12 |
| DO60920025 | 25 CS | 36 | 30 | 57 | 12 |
| DO60920027 | 27 CS | 39 | 30 | 57 | 12 |
| DO60920030 | 30 CS | 42 | 30 | 62 | 12 |
| DO60920032 | 32 CS | 44 | 30 | 62 | 12 |

6-POINT LONG 6-KANT LANG 6-PANS LONGUE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO60923010 | 10 DS | 17 | 25 | 100 | 12 |
| DO60923012 | 12 DS | 19,5 | 25 | 100 | 12 |
| DO60923013 | 13 DS | 20,5 | 25 | 100 | 12 |
| DO60923014 | 14 DS | 21,5 | 25 | 100 | 12 |
| DO60923015 | 15 DS | 22,5 | 25 | 100 | 12 |
| DO60923017 | 17 DS | 25 | 25 | 100 | 13 |
| DO60923019 | 19 DS | 28 | 25 | 100 | 13 |
| | | | | | |
| DO60924010 | 10 DS | 17 | 25 | 150 | 12 |
| DO60924012 | 12 DS | 19,5 | 25 | 150 | 12 |
| DO60924013 | 13 DS | 20,5 | 25 | 150 | 12 |
| DO60924014 | 14 DS | 21,5 | 25 | 150 | 12 |
| DO60924015 | 15 DS | 22,5 | 25 | 150 | 12 |
| DO60924017 | 17 DS | 25 | 25 | 150 | 13 |
| DO60924019 | 19 DS | 28 | 25 | 150 | 13 |
| | | | | | |
| DO60925010 | 10 DS | 17 | 25 | 200 | 12 |
| DO60925012 | 12 DS | 19,5 | 25 | 200 | 12 |
| DO60925013 | 13 DS | 20,5 | 25 | 200 | 12 |
| DO60925014 | 14 DS | 21,5 | 25 | 200 | 12 |
| DO60925015 | 15 DS | 22,5 | 25 | 200 | 12 |
| DO60925017 | 17 DS | 25 | 25 | 200 | 13 |
| DO60925019 | 19 DS | 28 | 25 | 200 | 13 |

6-POINT LONG MAGNETIC 6-KANT LANG MAGNETISCH 6-PANS LONGUE MAGNÉTIQUE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO6092P010 | 10 DS | 17,5 | 25 | 100 | 4 |
| DO6092P011 | 11 DS | 18,5 | 25 | 100 | 5 |
| DO6092P012 | 12 DS | 20 | 25 | 100 | 5 |
| DO6092P013 | 13 DS | 21 | 25 | 100 | 6 |
| DO6092P014 | 14 DS | 22,5 | 25 | 100 | 6 |
| DO6092P015 | 15 DS | 23,5 | 30 | 100 | 7 |
| DO6092P016 | 16 DS | 25 | 30 | 100 | 7 |
| DO6092P017 | 17 DS | 26 | 30 | 100 | 7 |
| DO6092P018 | 18 DS | 27,5 | 30 | 100 | 8 |
| DO6092P019 | 19 DS | 28,5 | 30 | 100 | 8 |
| | | | | | |
| DO6092R010 | 10 DS | 17,5 | 25 | 150 | 12 |
| DO6092R011 | 11 DS | 18,5 | 25 | 150 | 12 |
| DO6092R012 | 12 DS | 20 | 25 | 150 | 12 |
| DO6092R013 | 13 DS | 21 | 25 | 150 | 12 |
| DO6092R014 | 14 DS | 22,5 | 25 | 150 | 12 |
| DO6092R015 | 15 DS | 23,5 | 30 | 150 | 12 |
| DO6092R016 | 16 DS | 25 | 30 | 150 | 13 |
| DO6092R017 | 17 DS | 26 | 30 | 150 | 13 |
| DO6092R018 | 18 DS | 27,5 | 30 | 150 | 13 |
| DO6092R019 | 19 DS | 28,5 | 30 | 150 | 13 |
| | | | | | |
| DO6092T010 | 10 DS | 17,5 | 25 | 200 | 12 |
| DO6092T011 | 11 DS | 18,5 | 25 | 200 | 12 |
| DO6092T012 | 12 DS | 20 | 25 | 200 | 12 |
| DO6092T013 | 13 DS | 21 | 25 | 200 | 12 |
| DO6092T014 | 14 DS | 22,5 | 25 | 200 | 12 |
| DO6092T015 | 15 DS | 23,5 | 30 | 200 | 12 |
| DO6092T016 | 16 DS | 25 | 30 | 200 | 13 |
| DO6092T017 | 17 DS | 26 | 30 | 200 | 13 |
| DO6092T018 | 18 DS | 27,5 | 30 | 200 | 13 |
| DO6092T019 | 19 DS | 28,5 | 30 | 200 | 13 |



1/2" SLEEVEDRIVE

SPINDELGEFÜHRTE STECKSCHLÜSSEL | DOUILLES GUIDÉES



6-POINT NORMAL MAGNETIC 6-KANT NORMAL MAGNETISCH 6-PANS NORMALE MAGNÉTIQUE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO6092A006 | 6 AS | 13 | 25 | 52 | 5 |
| DO6092A007 | 7 AS | 14 | 25 | 52 | 5 |
| DO6092A008 | 8 AS | 15 | 25 | 52 | 7 |
| DO6092A009 | 9 AS | 16 | 25 | 52 | 7 |
| DO6092A010 | 10 AS | 17,5 | 25 | 52 | 8 |
| DO6092A011 | 11 AS | 18,5 | 25 | 52 | 9 |
| DO6092A012 | 12 AS | 20 | 25 | 52 | 12 |
| DO6092A013 | 13 AS | 21 | 25 | 52 | 12 |
| DO6092A014 | 14 AS | 22,5 | 25 | 52 | 12 |
| DO6092A015 | 15 AS | 23,5 | 30 | 52 | 12 |
| DO6092A016 | 16 AS | 25 | 30 | 52 | 12 |
| DO6092A017 | 17 AS | 26 | 30 | 52 | 12 |
| DO6092A018 | 18 AS | 27,5 | 30 | 52 | 12 |
| DO6092A019 | 19 AS | 28,5 | 30 | 52 | 12 |
| DO6092A020 | 20 BS | 30 | 30 | 52 | 12 |
| DO6092A021 | 21 CS | 31 | 30 | 52 | 12 |
| DO6092A022 | 22 CS | 32 | 30 | 52 | 12 |
| DO6092A023 | 23 CS | 34 | 30 | 52 | 12 |
| DO6092A024 | 24 CS | 35 | 30 | 52 | 12 |
| DO6092A025 | 25 CS | 36 | 30 | 57 | 12 |
| DO6092A026 | 26 CS | 38 | 30 | 57 | 12 |
| DO6092A027 | 27 CS | 38,5 | 30 | 57 | 12 |

6-POINT DEEP MAGNETIC 6-KANT TIEF MAGNETISCH 6-PANS ROFONDE MAGNÉTIQUE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | |
| DO6092Q010 | 10 FS | 17,5 | 25 | 100 | 5 |
| DO6092Q013 | 13 FS | 21 | 25 | 100 | 6 |
| DO6092Q016 | 16 FS | 25 | 30 | 100 | 7 |
| DO6092Q017 | 17 FS | 26 | 30 | 100 | 7 |
| DO6092Q019 | 19 FS | 28,5 | 30 | 100 | 8 |

TORX®EXTERNAL TORX®AUSSEN TORX®EXTÉRIEURE

| Type | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|------------|---------|-------|-------|------|-------|
| DO66920010 | E10 AS | 14 | 25 | 52 | 7,5 |
| DO66920011 | E11 AS | 15 | 25 | 52 | 8 |
| DO66920012 | E12 AS | 16 | 25 | 52 | 8,5 |
| DO66920014 | E14 AS | 18 | 25 | 52 | 10 |
| DO66920016 | E16 AS | 20 | 25 | 52 | 11 |
| DO66920018 | E18 AS | 22 | 25 | 52 | 12,5 |
| DO66920020 | E20 AS | 25 | 30 | 52 | 14 |
| DO66920022 | E22 AS | 27 | 30 | 52 | 15 |
| DO66920024 | E24 AS | 29 | 30 | 52 | 16,5 |

Torx® is a trademark of Textron.

TORX®INTERNAL TORX®INNEN TORX®INTÉRIEURE

| Type | Drawing | D2 mm | L mm | L1 mm | - |
|------------|---------|-------|------|-------|---|
| DO68821020 | T20 ES | 25 | 75 | 2,8 | - |
| DO68821025 | T25 ES | 25 | 75 | 3 | - |
| DO68821027 | T27 ES | 25 | 75 | 3 | - |
| DO68821030 | T30 ES | 25 | 75 | 3,8 | - |
| DO68821040 | T40 ES | 25 | 75 | 3,8 | - |
| DO68821045 | T45 ES | 25 | 75 | 4,3 | - |
| DO68821047 | T47 ES | 25 | 75 | 5 | - |
| DO68821050 | T50 ES | 25 | 75 | 5 | - |
| DO68821055 | T55 ES | 25 | 75 | 5,5 | - |
| DO68821060 | T60 ES | 25 | 75 | 8 | - |
| DO68821070 | T70 FS | 25 | 75 | 9,4 | - |
| DO68821080 | T80 ES | 25 | 75 | 10,5 | - |
| DO68821090 | T90 ES | 25 | 75 | 11,8 | - |
| DO68821100 | T100 ES | 25 | 75 | 13,1 | - |

Torx® is a trademark of Textron.

HEX DRIVER AUSSEN-6-KANT (INBUS) EMPREINTE 6-PANS (INBUS)

| Type | Drawing | D2 mm | L mm | L1 mm | - |
|---------------------------------|---------|-------|------|-------|---|
| Metrical · Metrisch · Métriques | | | | | |
| DO68925003 | 3 ES | 25 | 75 | 11 | - |
| DO68925004 | 4 ES | 25 | 75 | 11 | - |
| DO68925005 | 5 ES | 25 | 75 | 15 | - |
| DO68925006 | 6 ES | 25 | 75 | 15 | - |
| DO68925007 | 7 ES | 25 | 75 | 20 | - |
| DO68925008 | 8 ES | 25 | 75 | 25 | - |
| DO68925009 | 9 ES | 25 | 75 | 25 | - |
| DO68925010 | 10 FS | 25 | 75 | 25 | - |
| DO68925011 | 11 ES | 25 | 75 | 25 | - |
| DO68925012 | 12 ES | 25 | 75 | 25 | - |
| DO68925013 | 13 ES | 25 | 75 | 25 | - |
| DO68925014 | 14 ES | 25 | 75 | 25 | - |
| DO68925015 | 15 ES | 25 | 75 | 25 | - |
| DO68925016 | 16 ES | 25 | 75 | 25 | - |
| DO68925017 | 17 ES | 25 | 75 | 25 | - |
| DO68925018 | 18 ES | 25 | 75 | 25 | - |
| DO68925019 | 19 ES | 25 | 75 | 25 | - |

STUD BOLT SETTERS | STEHBOLZENSETZER | PRISE GOUJON

| Type | Size | D1 mm | D2 mm | L mm |
|------------|------------|-------|-------|------|
| DO66A21062 | M6 x 1 | 13 | 25 | 75 |
| DO66A21104 | M10 x 1,5 | 17 | 25 | 75 |
| DO66A21125 | M12 x 1,75 | 19 | 25 | 75 |
| DO66A21146 | M14 x 2 | 22 | 25 | 75 |
| DO66A21166 | M16 x 2 | 27 | 30 | 75 |

3/4" SLEEVEDRIVE

SPINDELGEFÜHRTE STECKSCHLÜSSEL | DOUILLES GUIDÉES

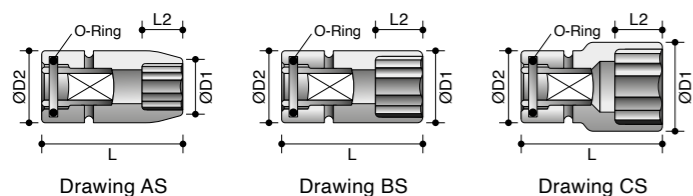


6-POINT NORMAL 6-KANT NORMAL 6-PANS NORMALE

| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|----|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | | |
| DO60940017 | 17 | AS | 31 | 44 | 65 | 12 |
| DO60940018 | 18 | AS | 32 | 44 | 65 | 12 |
| DO60940019 | 19 | AS | 33 | 44 | 65 | 14 |
| DO60940021 | 21 | AS | 35 | 44 | 65 | 16 |
| DO60940022 | 22 | AS | 37 | 44 | 65 | 16 |
| DO60940023 | 23 | AS | 38 | 44 | 65 | 16 |
| DO60940024 | 24 | AS | 39 | 44 | 65 | 16 |
| DO60940026 | 26 | AS | 41 | 44 | 65 | 16 |
| DO60940027 | 27 | AS | 43 | 44 | 65 | 16 |
| DO60940028 | 28 | BS | 44 | 44 | 68 | 20 |
| DO60940029 | 29 | CS | 45 | 44 | 68 | 20 |
| DO60940030 | 30 | CS | 47 | 44 | 68 | 20 |
| DO60940032 | 32 | CS | 49 | 44 | 70 | 20 |
| DO60940033 | 33 | CS | 51 | 44 | 70 | 20 |
| DO60940034 | 34 | CS | 52 | 44 | 70 | 20 |
| DO60940035 | 35 | CS | 53 | 44 | 70 | 20 |
| DO60940036 | 36 | CS | 54 | 44 | 70 | 20 |
| DO60940038 | 38 | CS | 57 | 44 | 72 | 22 |
| DO60940041 | 41 | CS | 60 | 44 | 72 | 22 |
| DO60940046 | 46 | CS | 67 | 54 | 77 | 23 |
| DO60940050 | 50 | CS | 71 | 54 | 77 | 23 |

6-POINT MAGNETIC 6-KANT MAGNETISCH 6-PANS MAGNÉTIQUE

| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|---------------------------------|----|---------|-------|-------|------|-------|
| Metrical · Metrisch · Métriques | | | | | | |
| DO6094A013 | 13 | AS | 24,5 | 44 | 65 | 12 |
| DO6094A014 | 14 | AS | 25,5 | 44 | 65 | 12 |
| DO6094A015 | 15 | AS | 27 | 44 | 65 | 12 |
| DO6094A016 | 16 | AS | 28 | 44 | 65 | 12 |
| DO6094A017 | 17 | AS | 30 | 44 | 65 | 12 |
| DO6094A018 | 18 | AS | 31 | 44 | 65 | 12 |
| DO6094A019 | 19 | AS | 32 | 44 | 65 | 14 |
| DO6094A020 | 20 | AS | 34 | 44 | 68 | 14 |
| DO6094A021 | 21 | AS | 35 | 44 | 68 | 16 |
| DO6094A022 | 22 | AS | 37 | 44 | 68 | 16 |
| DO6094A023 | 23 | AS | 38 | 44 | 68 | 16 |
| DO6094A024 | 24 | AS | 39 | 44 | 68 | 16 |
| DO6094A025 | 25 | AS | 41 | 44 | 69 | 16 |
| DO6094A026 | 26 | AS | 42 | 44 | 69 | 16 |
| DO6094A027 | 27 | AS | 43 | 44 | 69 | 16 |



HEX DRIVER (INBUS) AUSSEN-6-KANT (INBUS) EMPREINTE 6-PANS (INBUS)

| Type | mm | Drawing | D2 mm | L mm | L1 mm | - |
|---------------------------------|----|---------|-------|------|-------|---|
| Metrical · Metrisch · Métriques | | | | | | |
| DO68945010 | 10 | ES | 44 | 100 | 20 | - |
| DO68945012 | 12 | ES | 44 | 100 | 20 | - |
| DO68945014 | 14 | ES | 44 | 100 | 20 | - |
| DO68945016 | 16 | ES | 44 | 100 | 20 | - |
| DO68945017 | 17 | ES | 44 | 100 | 20 | - |
| DO68945019 | 19 | ES | 44 | 100 | 20 | - |
| DO68945022 | 22 | ES | 44 | 100 | 20 | - |
| DO68945024 | 24 | ES | 44 | 100 | 20 | - |
| DO68945027 | 27 | ES | 44 | 100 | 20 | - |
| DO68945030 | 30 | ES | 44 | 100 | 20 | - |
| DO68945032 | 32 | ES | 44 | 100 | 20 | - |
| DO68945033 | 33 | ES | 44 | 100 | 20 | - |
| DO68945036 | 36 | ES | 44 | 100 | 20 | - |
| DO68945038 | 38 | ES | 44 | 100 | 20 | - |

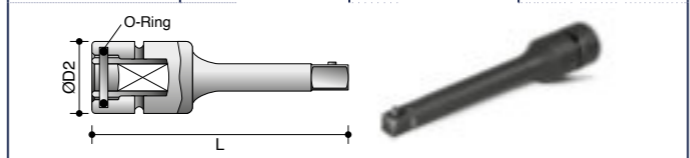
TORX®EXTERNAL TORX®AUSSEN TORX®EXTÉRIEURE

| Type | mm | Drawing | D1 mm | D2 mm | L mm | L2 mm |
|------------|-----|---------|-------|-------|------|-------|
| DO66940018 | E18 | AS | 26 | 44 | 65 | 12,5 |
| DO66940020 | E20 | AS | 28 | 44 | 65 | 14 |
| DO66940022 | E22 | AS | 31 | 44 | 65 | 15 |
| DO66940024 | E24 | AS | 33 | 44 | 65 | 16,5 |

Torx® is a trademark of Textron.

EXTENSIONS | VERLANGERUNGEN | PROLONGATEURS

| Type | mm | L mm | D2 mm |
|------------|------|------|-------|
| DO64614075 | 3/8" | 75 | 22 |
| DO64614125 | 3/8" | 125 | 22 |
| DO64614250 | 3/8" | 250 | 22 |
| DO64624075 | 1/2" | 75 | 25 |
| DO64624125 | 1/2" | 125 | 25 |
| DO64624175 | 1/2" | 175 | 25 |
| DO64624250 | 1/2" | 250 | 25 |
| DO64644175 | 3/4" | 175 | 44 |
| DO64644250 | 3/4" | 250 | 44 |
| DO64644330 | 3/4" | 330 | 44 |



SLEEVEDRIVE

SPINDELGEFÜHRTE STECKSCHLÜSSEL | DOUILLES GUIDÉES



SLEEVE DRIVE QUICK CHANGE ADAPTORS SPINDELGEFÜHRTE SCHNELLWECHSELHALTER ADAPTATEURS À CHANGEMENT RAPIDE, DOUILLE GUIDÉE


| Type | mm | D2 mm | L mm | - |
|------------|------|-------|------|---|
| DO69151112 | 3/8" | 19 | 75 | - |
| DO69151212 | 3/8" | 19 | 100 | - |
| DO69151116 | 3/8" | 20 | 80 | - |
| DO69152112 | 1/2" | 25 | 75 | - |
| DO69152216 | 1/2" | 25 | 100 | - |
| DO69154116 | 3/4" | 44 | 90 | - |
| DO69154324 | 3/4" | 44 | 125 | - |

SLEEVE DRIVE BIT HOLDERS SPINDELGEFÜHRTE BITHALTER DOUILLES GUIDÉES ADAPTATEURS EMBOUT

| Type | mm | D2 mm | L mm | - |
|-------------|------|-------|------|---|
| DO69111E08 | 3/8" | 22 | 52 | - |
| DO69111E14* | 3/8" | 22 | 62 | - |
| DO69112E08 | 1/2" | 25 | 60 | - |
| DO69112E14* | 1/2" | 25 | 70 | - |
| DO69114E14* | 3/4" | 44 | 80 | - |

* See page 48 for 7/16" bit holders.
* 7/16" Bits s. a. Seite 48.
* Pour embouts 7/16" voir page 48.

SETS


DO605121301 3/8" 



13 IMPACT SOCKETS, 6-POINT, DEEP
7-8-9-10-11-12-13-14-15-16-17-18-19 mm

13 KRAFTSTECKSCHLÜSSEL, 6-KANT, TIEF
7-8-9-10-11-12-13-14-15-16-17-18-19 mm

13 DOUILLES, 6-PANS, PROFONDE
7-8-9-10-11-12-13-14-15-16-17-18-19 mm


DO611101301 3/8" 



13 IMPACT SOCKETS, 6-POINT, THIN WALL
7-8-9-10-11-12-13-14-15-16-17-18-19 mm

13 KRAFTSTECKSCHLÜSSEL, 6-KANT, DÜNNWANDIG
7-8-9-10-11-12-13-14-15-16-17-18-19 mm

13 DOUILLES, 6-PANS, PAROI MINCE
7-8-9-10-11-12-13-14-15-16-17-18-19 mm


DO0012-0-000S 1/2" 



10 IMPACT SOCKETS, 6-POINT, NORMAL
9-10-11-13-14-17-19-22-24-27mm

10 KRAFTSTECKSCHLÜSSEL, 6-KANT, NORMALE AUSFÜHRUNG
9-10-11-13-14-17-19-22-24-27mm

10 DOUILLES, 6-PANS, NORMALES
9-10-11-13-14-17-19-22-24-27mm

DO648260901 1/2" 



9 IMPACT SOCKETS, HEX DRIVER
4-5-6-8-10-12-14-17-19mm

9 INBUSKRAFTSTECKSCHLÜSSEL
4-5-6-8-10-12-14-17-19mm

9 DOUILLES EMPREINTE 6-PANS (INBUS)
4-5-6-8-10-12-14-17-19mm


DO691121301 1/2"  



1 QUICK CHANGE ADAPTOR,
1/2" SQUARE DRIVE, 7/16" HEX.
HEX INTERNAL TORX® BITS 7/16"
T30-T40-T45-T50-T55-T60
Hex driver bits - 7/16": 6-8-10-12-14-17 mm

13-TEILIGER SATZ 1/2" ANTRIEBSVIERKANT
SCHNELLWECHSLER & 7/16" SECHSKANTBITS
6 Stück 7/16" Sechskant Torx® Int. Bits
T30-T40-T45-T50-T55-T60
6 Stück 7/16" Sechskant inbusbits:
6-8-10-12-14-17 mm

1 PIECE ADAPTATEUR RAPIDE,
1/2" CARRÉ D'ENTRAÎN., 7/16" HEX.
6 pièces embout 7/16"
T30-T40-T45-T50-T55-T60
6 Hex inbus bits- 7/16": 6-8-10-12-14-17 mm

DO605222601 1/2" 




26 IMPACT SOCKETS, 6-POINT, DEEP
10-11-12-13-14-15-16-17-18-19-20-
21-22-23-24-25-26-27-28-29-30-32-
33-34-35-36 mm

26 KRAFTSTECKSCHLÜSSEL, 6-KANT, TIEF
10-11-12-13-14-15-16-17-18-19-20-
21-22-23-24-25-26-27-28-29-30-32-
33-34-35-36 mm

26 DOUILLES, 6-PANS, PROFONDE
10-11-12-13-14-15-16-17-18-19-20-
21-22-23-24-25-26-27-28-29-30-32-
33-34-35-36 mm

SETS


DO605202602 1/2" 



26 IMPACT SOCKETS, 6-POINT
10-11-12-13-14-15-16-17-18-19-20-
21-22-23-24-25-26-27-28-29-30-32-
33-34-35-36 mm

26 KRAFTSTECKSCHLÜSSEL, 6-KANT
10-11-12-13-14-15-16-17-18-19-20-
21-22-23-24-25-26-27-28-29-30-32-
33-34-35-36 mm

26 DOUILLES, 6-PANS
10-11-12-13-14-15-16-17-18-19-20-
21-22-23-24-25-26-27-28-29-30-32-
33-34-35-36 mm


DO69523108 1/2" 



10 IMPACT SOCKETS, 6-POINT, DEEP
10-11-13-14-17-19-21-22-24-27 mm

10 KRAFTSTECKSCHLÜSSEL, 6-KANT, TIEF
10-11-13-14-17-19-21-22-24-27 mm

10 DOUILLES, 6-PANS, PROFONDE
10-11-13-14-17-19-21-22-24-27 mm

DO652260701 1/2" 



7 PCS 1/2" DRIVE
IMPACT TRIPLE SQUARE DRIVER SET
M5-M6-M8-M10-M12-M14-M16


Particularly suitable for use in car workshops geared to service Volkswagen brand cars.

7-TEILIGER SATZ KRAFTSTECKSCHLÜSSEL
1/2" ANTRIEBSVIERKANT - XZN BIT
M5-M6-M8-M10-M12-M14-M16

Sehr gut geeignet für Werkstatt und Servicezentren von Pkw aus dem Volkswagen-Konzern.

7 DOUILLES, TRIPLÉ CARREEMBOUT
M5-M6-M8-M10-M12-M14-M16

Très approprié pour les garages et les centres de services de voitures particulières du groupe Volkswagen.


DO658272601 1/2" 



26 IMPACT SOCKETS, 12-POINT, DEEP
10-11-12-13-14-15-16-17-18-19-
20-21-22-23-24-25-26-27-28-29-
30-32-33-34-35-36 mm

26 KRAFTSTECKSCHLÜSSEL, 12-KANT, TIEF
10-11-12-13-14-15-16-17-18-19-
20-21-22-23-24-25-26-27-28-29-
30-32-33-34-35-36 mm

26 DOUILLES, 12-PANS, PROFONDE
10-11-12-13-14-15-16-17-18-19-
20-21-22-23-24-25-26-27-28-29-
30-32-33-34-35-36 mm


DO61120310 1/2" 



3 IMPACT SOCKETS WITH
PLASTIC STOP AND SLEEVE
blue 17 mm - yellow 19 mm - red 21 mm

3 KRAFTSTECKSCHLÜSSEL MIT
KUNSTSTOFFANSCHLAG UND -HÜLSE
blau 17 mm - gelb 19 mm - rot 21 mm

3 DOUILLES AVEC BUTÉE ET
MANCHON PLASTIQUE
bleu 17 mm - jaune 19 mm - rouge 21 mm

DO611260501 1/2" 



5 IMPACT SOCKETS WITH
PLASTIC STOP AND SLEEVE
white 15 mm - blue 17 mm - yellow 19 mm -
red 21 mm - green 22 mm

5 KRAFTSTECKSCHLÜSSEL MIT
KUNSTSTOFFANSCHLAG UND -HÜLSE
weiß 15 mm - blau 17 mm - gelb 19 mm -
rot 21 mm - grün 22 mm

5 DOUILLES AVEC BUTÉE ET
MANCHON PLASTIQUE
blanc 15 mm - bleu 17 mm - jaune 19 mm -
rouge 21 mm - vert 22 mm

SETS

SPECIAL SET FOR WHEEL LUG NUT REMOVER
 SET KRAFTSTECKSCHLÜSSEL FÜR RADMUTTERSCHLOSS
 JEU DE DOUILLES SPECIALES POUR BLOCAGE DE BOULON DE ROUE
 DO0012-0-286



APPLICATION

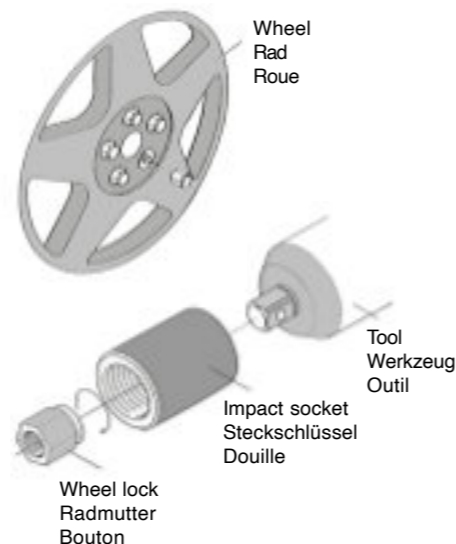
This wheel lug nut remover is used when it is discovered that the original key to remove your car wheel is lost. In order to remove the lock and the wheel, these sockets can be used. Proper use of the socket is to have at least three windings of thread of the socket gripping over the lock. In case any of the first three windings are already gripping, the next bigger size of socket should be chosen. When the correct size of socket is chosen, it can unlock up to four bolts.

VERWENDUNG

Die Verwendung der Radmutter Schlossentferner ist nur dann erforderlich, wenn der PKW-Fahrer zum Reifendienst geht und den Originalschlüssel vergessen hat. Um doch das Schloss entfernen zu können, werden diese Nüsse verwendet. Beim Aufstecken des Radmutter Schlossentferners beachten Sie, dass dieser mindestens 3 Gewindegänge tief im Schloss steckt, damit er genug fassen kann. Wenn der (konische) Steckschlüssel bereits nach einem Gewindegang greift, muss ein größerer Steckschlüssel gewählt werden. Wenn die Nuss mit richtiger Größe so verwendet wird, können bis zu 4 Rad-schlösser entfernt werden.

UTILISATION

Cette douille pour la dépose de boulons de roues est par exemple utilisée lorsque l'automobiliste découvre, en arrivant au garage, qu'il a oublié la douille antivol d'origine. Ces douilles sont utilisées pour pouvoir malgré tout retirer le boulon (et donc la roue). Lors de l'utilisation de la douille pour la dépose des boulons de roues, celle-ci doit faire au minimum trois tours autour du boulon antivol avant que le filetage n'accroche. Si le filetage accroche dès le premier tour, il convient de choisir une douille plus grande. Lorsque la bonne taille de douille est ainsi utilisée, les quatre boulons antivol peuvent être enlevés.



1/2"

7 IMPACT SOCKETS, NORMAL
 17 - 18,5 - 20 - 21,5 - 23 - 24,5 - 26 mm

7 KRAFTSTECKSCHLÜSSEL, NORMALE AUSFÜHRUNG
 17 - 18,5 - 20 - 21,5 - 23 - 24,5 - 26 mm

7 DOUILLES, NORMALES
 17 - 18,5 - 20 - 21,5 - 23 - 24,5 - 26 mm

SET MAGNETIC REDUCERS
 SET MAGNETISCHE KRAFTNÜSSE MIT HÜLSEN
 ADAPTATEURS MAGNÉTIQUE POUR DES DOUILLES À CHOCS
 DO698800401



4 PCS. MAGNETIC SLEEVE INSERT ADAPTORS
 1/4" female x 3/8" male
 3/8" female x 1/2" male
 1/2" female x 3/4" male
 3/4" female x 1" male

The magnetic sleeve adaptors allow the temporary use of bigger impact sockets on smaller tools. By means of the magnet changes of loosing the adaptor are reduced. Especially well suited for the service kit of a traveling mechanic, tasked with the servicing of heavy equipment.

4-TEILIGES SET MAGNETISCHE, REDUZIERENDE VERBINDUNGSTEILE FÜR KRAFTSTECKSCHLÜSSEL
 1/4" weiblich x 3/8" männlich
 3/8" weiblich x 1/2" männlich
 1/2" weiblich x 3/4" männlich
 3/4" weiblich x 1" männlich

Die reduzierende Hülse ermöglicht die Verwendung größerer Kraftsteckschlüssel auf kleinerem Schlagschrauber. Der Magnet sorgt dafür, dass der Adapter den Kraftsteckschlüssel hält. Dieses Set ist ideal für die Toolbox des reisenden Servicetechnikers, bei Wartung und Reparaturen an zum Beispiel schweren Baumaschinen.

JEU DE 4 ADAPTATEURS MAGNÉTIQUE POUR DES DOUILLES À CHOCS
 1/4" femelle x 3/8" mâle
 3/8" femelle x 1/2" mâle
 1/2" femelle x 3/4" mâle
 3/4" femelle x 1" mâle

Les adaptateurs magnétiques permettent d'utiliser temporairement des douilles plus grandes sur des machines plus petites. L'aimant permet à l'adaptateur de rester fixé à la douille. Ce set est indispensable dans la caisse à outils du mécanicien mobile qui doit par exemple entretenir et réparer du matériel lourd.

SETS

DO605401001

3/4"



10 IMPACT SOCKETS, 6-POINT, NORMAL
 21-22-24-27-30-32-33-36-41-46 mm

10 KRAFTSTECKSCHLÜSSEL, 6-KANT, NORMALE AUSFÜHRUNG
 21-22-24-27-30-32-33-36-41-46 mm

10 DOUILLES, 6-PANS, NORMALES
 21-22-24-27-30-32-33-36-41-46 mm

DO605421001

3/4"



10 IMPACT SOCKETS, 6-POINT, DEEP
 21-22-24-27-30-32-33-36-41-46 mm

10 KRAFTSTECKSCHLÜSSEL, 6-KANT, TIEF
 21-22-24-27-30-32-33-36-41-46 mm

10 DOUILLES, 6-PANS PROFONDE
 21-22-24-27-30-32-33-36-41-46 mm

DO0100-1-007

1"



7 IMPACT SOCKETS, 6-POINT, DEEP
 24-27-30-32-33-36-41 mm

7 KRAFTSTECKSCHLÜSSEL, 6-KANT, TIEF
 24-27-30-32-33-36-41 mm

7 DOUILLES, 6-PANS PROFONDE
 24-27-30-32-33-36-41 mm

TORQUE SOCKETS & SPECIALS

TORSIONSKRAFTSTECKSCHLÜSSEL & SPECIALS | BARRES LIMITEUR DE COUPLE & SPÉCIAUX

TORQUE SOCKETS | TORSIONSKRAFTSTECKSCHLÜSSEL | BARRES LIMITEUR DE COUPLE

1/2" 1"



| Type 1/2" | C/P mm | Nm | Length Lange Longuer | Colour Farbe Couleur |
|------------|--------|-----|----------------------|------------------------|
| DO68122D17 | 17 | 75 | 220 | Green / Grün / Vert |
| DO68122L17 | 17 | 110 | 220 | Red / Rot / Rouge |
| DO68122G19 | 19 | 90 | 220 | Yellow / Gelb / Jaune |
| DO68122L19 | 19 | 110 | 220 | Blue / Blau / Bleu |
| DO68122M19 | 19 | 135 | 220 | Grey / Grau / Gris |
| DO68122E21 | 21 | 80 | 220 | Black / Schwarz / Noir |
| DO68122L21 | 21 | 110 | 220 | Brown / Braun / Brun |

| Type 1" | C/P mm | Nm | Length Lange Longuer |
|------------|--------|-----|----------------------|
| DO68552U23 | 23 | 250 | 305 |
| DO68552W24 | 24 | 350 | 305 |
| DO68552W27 | 27 | 350 | 305 |
| DO68552Z27 | 27 | 450 | 305 |
| DO68552Y29 | 29 | 400 | 305 |
| DO68552B30 | 30 | 550 | 305 |
| DO68552C30 | 30 | 600 | 305 |
| DO68552A32 | 32 | 500 | 305 |
| DO68552C32 | 32 | 600 | 305 |
| DO68552F32 | 32 | 700 | 305 |
| DO68552A33 | 33 | 500 | 305 |
| DO68552C33 | 33 | 600 | 305 |
| DO68552C36 | 36 | 600 | 305 |

WHEEL NUT SOCKET FOR SPECIAL MERCEDES WHEEL BOLTS. (1/2"x17MM)
 RADMUTTERNUSS FÜR RADMUTTERN VON MERCEDES (1/2"x17MM)
 BOULON POUR DE ROUE MERCEDES (1/2"x17MM)
 DO6112P017

SPÉCIAL



Includes rotating plastic sleeve and stop for protecting alloy wheels.

This special impact socket is suitable for: Mercedes C-Class / GLK (W204), E-Class (W211, W212, W207), SLK (W172), M-Class (W164, W166), CL-Class (W216), S-Class (W221, W222) et Maybach.

Inklusive drehbarer Kunststoffhülse und -anschlag für den Schutz von Leichtmetallrädern.

Diese Sondernuss ist entwickelt für Mercedes: C-Klasse / GLK (W204), E-Klasse (W211, W212, W207), SLK (W172), M-Klasse (W164, W166), CL-Klasse (W216), S-Klasse (W221, W222) und Maybach.

Inclus une gaine en plastique pivotante de guidage et d'arrêt pour la protection des jantes en alliage.

Cette douille à choc est spécifique pour les modèles suivants: Mercedes C-Class/GLK (W204), classe E (W211, W212, W207), SLK (W172), M-Class (W164, W166), CL-classe (W216), S-classe (W221, L222) et Maybach.



