

# ESSENTIAL

## LINEE ESSENTIAL Essential lines

Lavorazioni meccaniche eseguite con moderne macchine a CNC di elevata affidabilità per conferire alle geometrie dell'inserto la precisione necessaria al miglior accoppiamento con la vite.

*Mechanical processes performed with modern CNC machines to give the geometries of the bit the precision necessary for better screw coupling.*

Acciaio di altà qualità al Cromo-Molibdeno-Vanadio temprato a cuore. Temperatura di rinvenimento calibrata per dare ad ogni tipologia la durezza ottimale.

*High-quality chrome-molybdenum-vanadium hardened steel and recovery temperature calibrated to strengthen each insert bit to its maximum hardness.*



La fosfatazione allo zinco come rivestimento superficiale conferisce a questa linea di prodotto un'ottima resistenza all'ossidazione.

*Zinc phosphate as a surface coating offers this product line excellent oxidation resistance.*



Controlli qualitativi e attenzione al customer satisfaction permettono di mantenere la qualità dei nostri prodotti sempre ai massimi livelli.

*Strict quality controls and constant attention to customer satisfaction ensure that the quality of our products is always at the highest levels.*



Grazie all'ottimo equilibrio tra durezza e tenacità, i nostri inserti ESSENTIAL non presentano rischi di rotture precoci e pericolose.

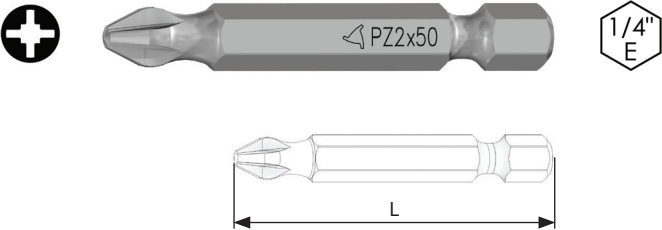
*The perfect balance between hardness and toughness of our ESSENTIAL bits, prevent premature and dangerous breakage.*

**61082**

# **PZ STAMPATI**

**LAME 1/4"E POZIDRIV® IMPRONTA STAMPATA**  
**1/4"E POZIDRIV® POWER BITS FORGED TIP**

**58/60 HRC**



**EASYPACK** | sacchetto PVC con Euro-hole • PVC bags with Euro-hole

|            | L mm | PCS. | COD.     |
|------------|------|------|----------|
| <b>PZ1</b> | 50   | 5    | 61082030 |
| <b>PZ2</b> | 50   | 5    | 61082035 |
| <b>PZ3</b> | 50   | 5    | 61082040 |



|            | L mm | COD.        |
|------------|------|-------------|
| <b>PZ1</b> | 50   | 61082030002 |
| <b>PZ2</b> | 50   | 61082035002 |
| <b>PZ3</b> | 50   | 61082040002 |

**SELFPACK**  
2 pcs.



|            | L mm | COD.        |
|------------|------|-------------|
| <b>PZ1</b> | 50   | 61082030005 |
| <b>PZ2</b> | 50   | 61082035005 |
| <b>PZ3</b> | 50   | 61082040005 |

**MINIBOX**  
5 pcs.

# SCHEDE TECNICHE

## TECHNICAL DATASHEETS

**PHILLIPS®**

A REGISTERED TRADEMARK OF PHILLIPS SCREW COMPANY


 IN ACCORDO A NORME INTERNAZIONALI  
 IN ACCORDANCE WITH INTERNATIONAL STANDARDS

 COPPIA DI TORSIONE SECONDO NORME  
 TIGHTENING TORQUE IN ACCORDANCE WITH THE STANDARDS

**DIN 5260**  
**ISO 8764**
**DIN 5261\***  
**ISO 8764\***


|                                                                                     |      |     |                                                                                           |                                                                                           | Autofilettanti per metallo<br>Self-tapping for metal                                |                                                                                     |                                                                                     | Autofilettanti per legno<br>Self-tapping for wood                                   |                                                                                      |                                                                                       | Metriche<br>Metrics                                                                   |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|------|-----|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                     |      |     |                                                                                           |                                                                                           |  |  |  |  |  |  |  |  |  |
|  | A    | Ø   | <br>Nm | <br>Nm | ISO 7049<br>= DIN 7981                                                              | ISO 7050<br>= DIN 7982                                                              | ISO 7051<br>= DIN 7983                                                              | DIN 7996                                                                            | DIN 7997                                                                             | DIN 7995                                                                              | ISO 7045<br>= DIN 7985                                                                | ISO 7046<br>= DIN 965                                                                 | ISO 7047<br>= DIN 966                                                                 |
| <b>PH0</b>                                                                          | 0,84 | 3   | 1,0                                                                                       | 1,0                                                                                       | 2,2                                                                                 | 2,2                                                                                 | 2,2                                                                                 | 2,0                                                                                 | 2,0                                                                                  | 2,0                                                                                   | 2,0                                                                                   | 2,0                                                                                   | 2,0                                                                                   |
| <b>PH1</b>                                                                          | 1,30 | 4,5 | 3,5                                                                                       | 3,8                                                                                       | 2,2<br>2,9                                                                          | 2,2<br>2,9                                                                          | 2,2<br>2,9                                                                          | 2,5<br>3,0                                                                          | 2,5<br>3,0                                                                           | 2,5<br>3,0                                                                            | 2,5<br>3,0                                                                            | 2,5<br>3,0                                                                            | 2,5<br>3,0                                                                            |
| <b>PH2</b>                                                                          | 2,31 | 6   | 8,2                                                                                       | 10,3                                                                                      | 3,5<br>4,8                                                                          | 3,5<br>4,8                                                                          | 3,5<br>4,8                                                                          | 3,5<br>5,0                                                                          | 3,5<br>5,0                                                                           | 3,5<br>5,0                                                                            | 4,0<br>5,0                                                                            | 4,0<br>5,0                                                                            | 4,0<br>5,0                                                                            |
| <b>PH3</b>                                                                          | 3,84 | 8   | 19,5                                                                                      | 32,0                                                                                      | 5,5<br>6,3                                                                          | 5,5<br>6,3                                                                          | 5,5<br>6,3                                                                          | 5,5<br>7,0                                                                          | 5,5<br>7,0                                                                           | 5,5<br>7,0                                                                            | 6,0                                                                                   | 6,0                                                                                   | 6,0                                                                                   |
| <b>PH4</b>                                                                          | 5,11 | 10  | 38,0                                                                                      | 88,7                                                                                      | 8,0<br>9,5                                                                          | 8,0<br>9,5                                                                          | 8,0<br>9,5                                                                          | 8,0                                                                                 | 8,0                                                                                  | 8,0                                                                                   | 8,0<br>10,0                                                                           | 8,0<br>10,0                                                                           | 8,0<br>10,0                                                                           |

\* LE NORME PREVEDONO CHE SOTTO IL VALORE DI COPPIA INDICATA IL PROFILO DELL'UTENSILE NON PRESENTI ALCUNA DEFORMAZIONE

\* THE STANDARDS REQUIRE THAT THE TOOL PROFILE DOES NOT DEFORM UNDER THE INDICATED TORQUE VALUES

# SCHEDE TECNICHE

## TECHNICAL DATASHEETS

**POZIDRIV®**

A REGISTERED TRADEMARK OF PHILLIPS SCREW COMPANY



IN ACCORDO A NORME INTERNAZIONALI  
IN ACCORDANCE WITH INTERNATIONAL STANDARDS

COPPIA DI TORSIONE SECONDO NORME  
TIGHTENING TORQUE IN ACCORDANCE WITH THE STANDARDS

**DIN 5260**  
**ISO 8764**

**DIN 5261\***  
**ISO 8764\***



|                                                                                     |      |     |                                                                                           |                                                                                           | Autofilettanti per metallo<br>Self-tapping for metal                                |                                                                                     |                                                                                     | Autofilettanti per legno<br>Self-tapping for wood                                   |                                                                                      |                                                                                       | Metriche<br>Metrics                                                                   |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|------|-----|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                     |      |     |                                                                                           |                                                                                           |  |  |  |  |  |  |  |  |  |
|  | A    | Ø   | <br>Nm | <br>Nm | ISO 7049<br>= DIN 7981                                                              | ISO 7050<br>= DIN 7982                                                              | ISO 7051<br>= DIN 7983                                                              | DIN 7996                                                                            | DIN 7997                                                                             | DIN 7995                                                                              | ISO 7045<br>= DIN 7985                                                                | ISO 7046<br>= DIN 965                                                                 | ISO 7047<br>= DIN 966                                                                 |
| <b>PZ0</b>                                                                          | 0,45 | 3   | 1,0                                                                                       | 1,0                                                                                       | 2,2                                                                                 | 2,2                                                                                 | 2,2                                                                                 | 2,0                                                                                 | 2,0                                                                                  | 2,0                                                                                   | 2,0                                                                                   | 2,0                                                                                   | 2,0                                                                                   |
| <b>PZ1</b>                                                                          | 0,71 | 4,5 | 3,5                                                                                       | 3,8                                                                                       | 2,2<br>2,9                                                                          | 2,2<br>2,9                                                                          | 2,2<br>2,9                                                                          | 2,5<br>3,0                                                                          | 2,5<br>3,0                                                                           | 2,5<br>3,0                                                                            | 2,5<br>3,0                                                                            | 2,5<br>3,0                                                                            | 2,5<br>3,0                                                                            |
| <b>PZ2</b>                                                                          | 1,00 | 6   | 8,2                                                                                       | 10,3                                                                                      | 3,5<br>4,8                                                                          | 3,5<br>4,8                                                                          | 3,5<br>4,8                                                                          | 3,5<br>5,0                                                                          | 3,5<br>5,0                                                                           | 3,5<br>5,0                                                                            | 4,0<br>5,0                                                                            | 4,0<br>5,0                                                                            | 4,0<br>5,0                                                                            |
| <b>PZ3</b>                                                                          | 1,38 | 8   | 19,5                                                                                      | 32,0                                                                                      | 5,5<br>6,3                                                                          | 5,5<br>6,3                                                                          | 5,5<br>6,3                                                                          | 5,5<br>7,0                                                                          | 5,5<br>7,0                                                                           | 5,5<br>7,0                                                                            | 6,0                                                                                   | 6,0                                                                                   | 6,0                                                                                   |
| <b>PZ4</b>                                                                          | 2,10 | 10  | 38,0                                                                                      | 88,7                                                                                      | 8,0<br>9,5                                                                          | 8,0<br>9,5                                                                          | 8,0<br>9,5                                                                          | 8,0                                                                                 | 8,0                                                                                  | 8,0                                                                                   | 8,0<br>10,0                                                                           | 8,0<br>10,0                                                                           | 8,0<br>10,0                                                                           |

\* LE NORME PREVEDONO CHE SOTTO IL VALORE DI COPPIA INDICATA IL PROFILO DELL'UTENSILE NON PRESENTI ALCUNA DEFORMAZIONE

\* THE STANDARDS REQUIRE THAT THE TOOL PROFILE DOES NOT DEFORM UNDER THE INDICATED TORQUE VALUES

# SCHEDE TECNICHE

## TECHNICAL DATASHEETS

**TORX®**

A REGISTERED TRADEMARK OF ACCUMENT GLOBAL TECHNOLOGIES

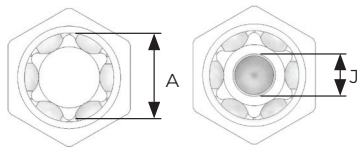


IN ACCORDO A NORME INTERNAZIONALI  
IN ACCORDANCE WITH INTERNATIONAL STANDARDS

COPPIA DI TORSIONE SECONDO NORME  
TIGHTENING TORQUE IN ACCORDANCE WITH THE STANDARDS

**TMD-702**

**TMD-702\***



|             | A     | J    | Nm    | Nm    | Nm    | Autofilettanti per metallo<br>Self-tapping for metal |                        |                        | Autofilettanti per legno<br>Self-tapping for wood |             |          | Metriche<br>Metrics    |                       |                       |                         |                       |                         |
|-------------|-------|------|-------|-------|-------|------------------------------------------------------|------------------------|------------------------|---------------------------------------------------|-------------|----------|------------------------|-----------------------|-----------------------|-------------------------|-----------------------|-------------------------|
|             |       |      |       |       |       | ISO 7049<br>= DIN 7981                               | ISO 7050<br>= DIN 7982 | ISO 7051<br>= DIN 7983 | DIN 7996                                          | DIN 7997    | DIN 7995 | ISO 7045<br>= DIN 7985 | ISO 7046<br>= DIN 965 | ISO 7047<br>= DIN 966 | DIN 912<br>7984<br>6912 | ISO 4762<br>= DIN 912 | ISO 10642<br>= DIN 7991 |
| <b>TX03</b> | 1,12  |      |       | 0,25  |       |                                                      |                        |                        |                                                   |             |          | 1,2                    | 1,4                   | 1,4                   | 1,2                     |                       |                         |
| <b>TX04</b> | 1,30  |      |       | 0,37  |       |                                                      |                        |                        |                                                   |             |          |                        |                       |                       |                         |                       |                         |
| <b>TX05</b> | 1,37  |      | 0,43  | 0,51  |       |                                                      |                        |                        |                                                   |             |          | 1,4<br>1,6             | 1,8                   |                       | 1,4<br>1,6              |                       |                         |
| <b>TX06</b> | 1,65  |      | 0,75  | 0,91  |       | 2,2                                                  | 2,2                    |                        |                                                   |             |          | 1,3<br>2,0             | 2,0                   |                       | 1,3<br>2,0              |                       |                         |
| <b>TX07</b> | 1,97  |      | 1,4   | 1,7   |       |                                                      |                        |                        |                                                   |             |          |                        |                       |                       |                         |                       |                         |
| <b>TX08</b> | 2,30  | 0,74 | 2,2   | 2,6   | 2,2   | 2,9                                                  | 2,9                    | 2,9                    |                                                   |             |          | 2,5                    | 2,5                   | 2,5                   |                         | 2,5                   |                         |
| <b>TX09</b> | 2,48  | 0,81 | 2,8   | 3,4   | 2,9   | 2,9                                                  |                        |                        |                                                   |             |          |                        |                       |                       |                         |                       |                         |
| <b>TX10</b> | 2,27  | 0,94 | 3,7   | 4,5   | 3,8   | 3,5                                                  | 3,5                    | 3,5                    | 3,0                                               | 3,0         |          | 3,0                    | 3,0                   | 3,0                   | 3,0                     | 3,0                   | 3,0                     |
| <b>TX15</b> | 3,26  | 1,19 | 6,4   | 7,7   | 6,5   | 3,9                                                  | 3,9                    | 3,9                    | 3,5                                               | 3,5         |          | 3,5                    | 3,5                   | 3,5                   | 3,5                     |                       |                         |
| <b>TX20</b> | 3,84  | 1,57 | 10,5  | 12,7  | 10,8  | 4,2                                                  | 4,2                    | 4,2                    | 4,0<br>4,5                                        | 4,0<br>4,5  | 4,5      | 4,0                    | 4,0                   | 4,0                   | 4,0                     | 4,0                   | 4,0                     |
| <b>TX25</b> | 4,40  | 1,96 | 15,9  | 19,0  | 16,1  | 4,8<br>5,5                                           | 4,8<br>5,5             | 4,8<br>5,5             | 4,5<br>6,0                                        | 4,5<br>5,0  | 4,5      | 5,0                    | 5,0                   | 5,0                   | 4,0<br>5,0              | 5,0                   | 5,0                     |
| <b>TX27</b> | 4,96  | 2,21 | 22,5  | 26,9  | 22,9  |                                                      |                        |                        |                                                   |             |          |                        |                       |                       | 4,3<br>5,0              |                       |                         |
| <b>TX30</b> | 5,49  | 2,72 | 31,1  | 37,4  | 31,8  | 6,3                                                  | 6,3                    | 6,3                    | 6,0                                               | 6,0         |          | 6,0                    | 6,0                   | 6,0                   | 6,0                     | 6,0                   | 6,0                     |
| <b>TX40</b> | 6,60  | 3,15 | 54,1  | 65,1  | 55,3  | 8,0                                                  |                        |                        |                                                   | 8,0<br>10,0 |          | 8,0                    | 8,0                   | 8,0                   | 8,0                     |                       | 8,0                     |
| <b>TX45</b> | 7,77  | 3,40 | 86,0  | 104,0 | 88,0  |                                                      |                        |                        |                                                   |             |          |                        |                       |                       |                         | 8,0                   |                         |
| <b>TX50</b> | 8,79  | 3,73 | 132,0 | 159,0 | 135,0 | 10,0                                                 |                        |                        |                                                   |             |          | 10,0                   | 10,0                  | 10,0                  | 10,0                    | 10,0                  | 10,0                    |
| <b>TX55</b> | 11,17 | 4,75 |       | 257,0 | 218,0 | 12,0                                                 |                        |                        |                                                   |             |          |                        |                       |                       | 12,0                    | 12,0                  |                         |
| <b>TX60</b> | 13,20 | 5,56 |       | 445,0 | 379,0 |                                                      |                        |                        |                                                   |             |          |                        |                       |                       | 14,0                    | 14,0                  |                         |
| <b>TX70</b> | 15,49 | 6,73 |       | 701,0 | 596,0 |                                                      |                        |                        |                                                   |             |          |                        |                       |                       |                         |                       |                         |

\* PER QUESTO PROFILO I VALORI DI COPPIA INDICATI CORRISPONDONO AL VALORE MINIMO DI ROTTURA

\* THE TORQUE VALUES INDICATED FOR THIS PROFILE CORRESPOND TO THE MINIMUM BREAKING VALUE

# SCHEDE TECNICHE

## TECHNICAL DATASHEETS

**TORX-PLUS®**

**TORX-PLUS® TAMPER RESISTANT**

A REGISTERED TRADEMARK OF ACCUMENT GLOBAL TECHNOLOGIES



IN ACCORDO A NORME INTERNAZIONALI  
IN ACCORDANCE WITH INTERNATIONAL STANDARDS

COPPIA DI TORSIONE SECONDO NORME  
TIGHTENING TORQUE IN ACCORDANCE WITH THE STANDARDS

**NMD-702**  
**NMD-602**

**NMD-702\***  
**NMD-602\***



\*\* DIAMETRO CIRCOSCRITTO • \*\* CIRCUMSCRIBED DIAMETER •

|             |      |       |              |      |      |      | Autofilettanti<br>per metallo<br>Self-tapping<br>for metal |                                 |                                 | Metriche<br>Metrics             |                                |                                |                            |                                |                                  |
|-------------|------|-------|--------------|------|------|------|------------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------------|
|             | A    | Nm    |              | A    | J    | Nm   | ISO<br>7049<br>=<br>DIN<br>7981                            | ISO<br>7050<br>=<br>DIN<br>7982 | ISO<br>7051<br>=<br>DIN<br>7983 | ISO<br>7045<br>=<br>DIN<br>7985 | ISO<br>7046<br>=<br>DIN<br>965 | ISO<br>7047<br>=<br>DIN<br>966 | DIN<br>912<br>7984<br>6912 | ISO<br>4762<br>=<br>DIN<br>912 | ISO<br>10642<br>=<br>DIN<br>7991 |
| <b>10IP</b> | 2,72 | 5,42  | <b>10IPR</b> | 2,72 | 0,91 | 4,3  | 3,5                                                        | 3,5                             | 2,9<br>3,5                      | 3,0                             | 3,0                            | 3,0                            | 3,0                        | 3,0                            | 5,0                              |
| <b>15IP</b> | 3,25 | 9,62  | <b>15IPR</b> | 3,25 | 1,17 | 7,3  | 3,9                                                        | 3,9                             | 3,5<br>3,9                      | 3,5                             | 3,5<br>4,0                     | 3,5                            |                            |                                | 6,0                              |
| <b>20IP</b> | 3,84 | 16,15 | <b>20IPR</b> | 3,84 | 1,55 | 11,9 | 4,2                                                        | 4,2                             | 4,2                             | 4,0                             | 4,0<br>5,0                     | 4,0                            | 4,0                        | 4,0                            | 6,0                              |
| <b>25IP</b> | 4,39 | 23,50 | <b>25IPR</b> | 4,39 | 1,93 | 17,4 | 4,8<br>5,5                                                 | 4,8<br>5,5                      | 4,8<br>5,5                      | 5,0                             | 5,0<br>6,0                     | 5,0                            | 5,0                        | 5,0                            | 7,0<br>8,0                       |
| <b>27IP</b> | 4,95 | 34,62 | <b>27IPR</b> | 4,95 | 2,18 | 25,1 |                                                            |                                 |                                 |                                 |                                |                                |                            |                                | 8,0                              |
| <b>30IP</b> | 5,49 | 47,18 | <b>30IPR</b> | 5,49 | 2,57 | 33,5 | 6,3                                                        | 6,3                             | 6,3                             | 6,0                             | 6,0                            | 6,0                            | 8,0                        | 6,0                            |                                  |
| <b>40IP</b> | 6,60 | 82,08 | <b>40IPR</b> | 6,60 | 2,92 | 59,4 |                                                            |                                 | 8,0                             |                                 | 8,0                            | 8,0                            | 8,0                        | 8,0                            | 10,0                             |

\* PER QUESTO PROFILO I VALORI DI COPPIA INDICATI CORRISPONDONO AL VALORE MINIMO DI ROTTURA

\* THE TORQUE VALUES INDICATED FOR THIS PROFILE CORRESPOND TO THE MINIMUM BREAKING VALUE

# SCHEDE TECNICHE

## TECHNICAL DATASHEETS

### ESAGONO



IN ACCORDO A NORME INTERNAZIONALI  
IN ACCORDANCE WITH INTERNATIONAL STANDARDS

COPPIA DI TORSIONE SECONDO NORME  
TIGHTENING TORQUE IN ACCORDANCE WITH THE STANDARDS

**DIN 911**  
**DIN 7426**

**DIN 7426\***  
**ISO 2936\***



|             |      |                  |                                                                                         |                                                                                         | Metriche<br>Metrics                                                               |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|-------------|------|------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|             |      |                  |                                                                                         |                                                                                         |  |  |  |  |  |
| ⊙           | A    | B <sub>MIN</sub> | <br>Nm | <br>Nm | DIN 7984                                                                          | ISO 4762<br>=<br>DIN 7984                                                          | ISO 10642<br>=<br>DIN 7991                                                          | DIN 908                                                                             | DIN 913 914<br>DIN 915 916                                                          |
| <b>0,7</b>  | 0,7  | 1,6              | 0,08                                                                                    |                                                                                         |                                                                                   |                                                                                    |                                                                                     |                                                                                     | 1,4<br>1,8                                                                          |
| <b>0,9</b>  | 0,9  | 1,8              | 0,18                                                                                    |                                                                                         |                                                                                   |                                                                                    |                                                                                     |                                                                                     | 2,0                                                                                 |
| <b>1,3</b>  | 1,3  | 2,0              | 0,53                                                                                    |                                                                                         |                                                                                   | 1,4                                                                                |                                                                                     |                                                                                     | 2,5                                                                                 |
| <b>1,5</b>  | 1,5  | 2,3              | 0,82                                                                                    | 0,95                                                                                    |                                                                                   | 1,6<br>2,0                                                                         |                                                                                     |                                                                                     | 3,0                                                                                 |
| <b>2,0</b>  | 2,0  | 3,0              | 1,9                                                                                     | 2,3                                                                                     | 3,0                                                                               | 2,5                                                                                | 3,0                                                                                 |                                                                                     | 4,0                                                                                 |
| <b>2,5</b>  | 2,5  | 3,8              | 3,4                                                                                     | 4,4                                                                                     | 4,0                                                                               | 3,0                                                                                | 4,0                                                                                 |                                                                                     | 5,0                                                                                 |
| <b>3,0</b>  | 3,0  | 4,5              | 6,6                                                                                     | 7,6                                                                                     | 5,0                                                                               | 4,0                                                                                | 5,0                                                                                 |                                                                                     | 6,0                                                                                 |
| <b>4,0</b>  | 4,0  | 6,0              | 16,0                                                                                    | 18,0                                                                                    | 6,0                                                                               | 5,0                                                                                | 6,0                                                                                 |                                                                                     | 8,0                                                                                 |
| <b>5,0</b>  | 5,0  | 7,5              | 30,0                                                                                    | 35,0                                                                                    | 8,0                                                                               | 6,0                                                                                | 8,0                                                                                 | 10,0                                                                                | 10,0                                                                                |
| <b>6,0</b>  | 6,0  | 9,0              | 52,0                                                                                    | 61,0                                                                                    |                                                                                   | 8,0                                                                                | 10,0                                                                                | 12,0<br>14,0                                                                        | 12,0<br>14,0                                                                        |
| <b>7,0</b>  | 7,0  | 10,5             | 78,0                                                                                    | 97,0                                                                                    | 10,0                                                                              |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| <b>8,0</b>  | 8,0  | 12,0             | 120,0                                                                                   | 140,0                                                                                   | 12,0                                                                              | 10,0                                                                               | 12,0                                                                                | 16,0<br>18,0                                                                        | 16,0<br>18,0                                                                        |
| <b>10,0</b> | 10,0 | 16,0             | 220,0                                                                                   | 280,0                                                                                   | 14,0                                                                              | 12,0                                                                               | 14,0<br>16,0                                                                        | 20,0<br>22,0                                                                        | 20,0<br>22,0                                                                        |
| <b>12,0</b> | 12,0 | 18,0             | 370,0                                                                                   | 480,0                                                                                   | 16,0<br>18,0                                                                      | 14,0                                                                               | 18,0<br>20,0                                                                        | 24,0<br>26,0                                                                        | 24,0<br>26,0                                                                        |
| <b>14,0</b> | 14,0 | 25,0             | 590,0                                                                                   |                                                                                         | 20,0<br>22,0                                                                      | 16,0<br>18,0                                                                       | 22,0<br>24,0                                                                        |                                                                                     |                                                                                     |

\* LE NORME PREVEDONO CHE SOTTO IL VALORE DI COPPIA INDICATA IL PROFILO DELL'UTENSILE NON PRESENTI ALCUNA DEFORMAZIONE

\* THE STANDARDS REQUIRE THAT THE TOOL PROFILE DOES NOT DEFORM UNDER THE INDICATED TORQUE VALUES

# SCHEDE TECNICHE

## TECHNICAL DATASHEETS

### TAGLIO



IN ACCORDO A NORME INTERNAZIONALI  
IN ACCORDANCE WITH INTERNATIONAL STANDARDS

COPPIA DI TORSIONE SECONDO NORME  
TIGHTENING TORQUE IN ACCORDANCE WITH THE STANDARDS

### DIN-ISO 2380

### DIN-ISO 2380\*

|      |      |      |      |      | Autofilettanti<br>per metallo<br>Self-tapping for metal |                        |                        | Autofilettanti<br>per legno<br>Self-tapping for wood |            |            | Metriche<br>Metrics  |                      |                       |                       |                                   |
|------|------|------|------|------|---------------------------------------------------------|------------------------|------------------------|------------------------------------------------------|------------|------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------------------|
| Ø    | A    | T    | Nm   | Nm   | ISO 1481<br>= DIN 7971                                  | ISO 1482<br>= DIN 7972 | ISO 1483<br>= DIN 7973 | DIN 96                                               | DIN 97     | DIN 95     | ISO 1207<br>= DIN 84 | ISO 1580<br>= DIN 85 | ISO 2009<br>= DIN 963 | ISO 2010<br>= DIN 964 | ISO 4766<br>7435<br>= DIN 417-427 |
| 1,5  | 0,30 | 0,50 |      | 0,15 |                                                         |                        |                        |                                                      |            |            |                      |                      |                       |                       |                                   |
| 1,8  | 0,37 | 0,50 |      | 0,28 |                                                         |                        |                        |                                                      |            |            | 1,2<br>1,4           |                      |                       |                       |                                   |
| 2,0  | 0,40 | 0,70 | 0,3  | 0,35 |                                                         |                        |                        | 1,6                                                  | 1,6        |            |                      |                      | 1,6                   |                       | 2,5<br>3,0                        |
| 2,5  | 0,40 | 0,70 | 0,4  | 0,45 |                                                         |                        |                        | 2,0                                                  |            | 1,6        | 1,6<br>1,8           |                      |                       | 1,6                   | 3,5                               |
| 3,0  | 0,50 | 0,90 | 0,7  | 0,8  |                                                         | 2,2                    | 2,2                    |                                                      | 2,0        | 2,0        | 2,0                  |                      | 2,0                   | 2,0                   | 4,0                               |
| 3,5  | 0,60 | 1,10 | 1,3  | 1,4  | 2,2                                                     |                        |                        | 2,5                                                  | 2,5        | 2,5        | 2,5                  |                      | 2,5                   | 2,5                   |                                   |
| 4,0  | 0,50 | 0,90 |      | 1,1  |                                                         |                        |                        | 2,0                                                  |            |            |                      |                      |                       |                       |                                   |
| 4,0  | 0,80 | 1,40 | 2,6  | 2,9  | 2,9                                                     | 2,9                    | 2,9                    | 3,0<br>3,5                                           | 3,0<br>3,5 | 3,0<br>3,5 | 3,0                  | 3,0                  | 3,0<br>3,5            | 3,0<br>3,5            | 5,0<br>6,0                        |
| 4,5  | 0,60 | 1,10 |      | 1,8  | 2,2                                                     |                        |                        | 2,5                                                  |            |            | 2,5                  |                      |                       |                       |                                   |
| 5,0  | 0,80 | 1,40 | 3,2  | 3,6  |                                                         |                        |                        |                                                      |            |            |                      |                      |                       |                       |                                   |
| 5,5  | 0,80 | 1,40 | 3,5  | 3,9  |                                                         |                        |                        | 3,5                                                  |            | 3,5        | 3,0                  | 3,5                  | 3,5                   | 3,5                   |                                   |
| 5,5  | 1,00 | 1,80 | 5,5  | 6,2  | 3,5<br>3,9                                              | 3,5<br>3,9             | 3,5<br>3,9             | 4,0<br>4,5                                           | 4,0<br>4,5 | 4,0<br>4,5 | 3,5                  | 3,5                  | 4,0                   | 4,0                   |                                   |
| 6,0  | 1,00 | 1,80 |      | 6,7  |                                                         |                        |                        |                                                      |            |            |                      |                      |                       |                       |                                   |
| 6,5  | 1,20 | 2,20 | 9,4  | 10,5 |                                                         | 4,2<br>4,8             | 4,2                    | 5,0<br>5,5                                           | 5,0        | 5,0        | 4,0                  |                      | 5,0                   | 5,0                   | 8,0                               |
| 7,0  | 1,20 | 2,20 | 10,0 | 11,3 |                                                         |                        |                        |                                                      |            |            |                      |                      |                       |                       |                                   |
| 8,0  | 1,20 | 2,20 | 11,5 | 12,9 | 4,2                                                     |                        | 4,8                    |                                                      | 5,5        | 5,5        | 5,0                  | 4,0                  |                       |                       |                                   |
| 8,0  | 1,60 | 2,90 | 20,5 | 22,9 | 4,8                                                     | 5,5<br>6,3             | 5,5                    | 6,0                                                  | 6,0        | 6,0        |                      | 5,0                  | 6,0                   | 6,0                   | 10,0<br>12,0                      |
| 10,0 | 1,60 | 2,90 | 25,6 | 28,7 | 5,5<br>6,3                                              |                        | 6,3                    |                                                      | 7,0<br>8,0 | 7,0        | 6,0                  |                      |                       |                       | 14,0                              |
| 13,0 | 2,00 | 3,60 | 52,0 | 58,0 |                                                         |                        |                        | 8,0                                                  | 10,0       |            | 8,0                  | 8,0                  | 8,0                   | 8,0                   | 16,0                              |

\* LE NORME PREVEDONO CHE SOTTO IL VALORE DI COPPIA INDICATA IL PROFILO DELL'UTENSILE NON PRESENTI ALCUNA DEFORMAZIONE

\* THE STANDARDS REQUIRE THAT THE TOOL PROFILE DOES NOT DEFORM UNDER THE INDICATED TORQUE VALUES

# SCHEDA TECNICHE

## TECHNICAL DATASHEETS

**TORX®**

A REGISTERED TRADEMARK OF ACCUMENT GLOBAL TECHNOLOGIES



IN ACCORDO A SPECIFICA ACCUMENT GLOBAL TECHNOLOGIES  
IN ACCORDANCE WITH THE SPECIFICATIONS OF ACCUMENT GLOBAL TECHNOLOGIES



|                                                                                   |       | Metriche<br>Metrics                                                               |                                                                                     |
|-----------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                   |       |  |  |
|  | A     | ISO 4014 - 4017<br>=<br>DIN 931 - 933                                             | ISO 8100<br>=<br>DIN 6921                                                           |
| <b>E5</b>                                                                         | 4,72  | 4,0                                                                               |                                                                                     |
| <b>E6</b>                                                                         | 5,69  | 5,0                                                                               | 4,0                                                                                 |
| <b>E7</b>                                                                         | 6,17  |                                                                                   |                                                                                     |
| <b>E8</b>                                                                         | 7,47  | 6,0<br>7,0                                                                        | 5,0                                                                                 |
| <b>E10</b>                                                                        | 9,37  | 8,0                                                                               | 6,0                                                                                 |
| <b>E11</b>                                                                        | 10,03 |                                                                                   |                                                                                     |
| <b>E12</b>                                                                        | 11,12 | 10,0<br>11,0                                                                      | 8,0                                                                                 |
| <b>E14</b>                                                                        | 12,85 | 12,0                                                                              | 10,0                                                                                |
| <b>E16</b>                                                                        | 14,71 |                                                                                   |                                                                                     |
| <b>E18</b>                                                                        | 16,64 | 14,0                                                                              | 12,0                                                                                |
| <b>E20</b>                                                                        | 18,41 | 16,0                                                                              | 14,0                                                                                |
| <b>E22</b>                                                                        | 20,24 |                                                                                   |                                                                                     |
| <b>E24</b>                                                                        | 22,09 | 18,0<br>20,0                                                                      |                                                                                     |

# SCHEDE TECNICHE

## TECHNICAL DATASHEETS

### ESAGONO

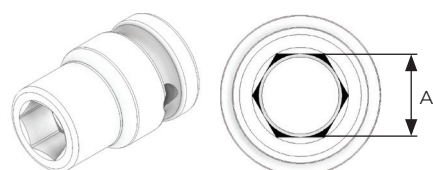


IN ACCORDO A NORME INTERNAZIONALI  
IN ACCORDANCE WITH INTERNATIONAL STANDARDS

COPPIA DI TORSIONE SECONDO NORME  
TIGHTENING TORQUE IN ACCORDANCE WITH THE STANDARDS

**DIN 3129**

**DIN-ISO 1711\***



|                                                                                   |                                                                                         |                                                                                         | Autofilettanti<br>per metallo<br>Self-tapping<br>for metal                        | Autofilettanti<br>per legno<br>Self-tapping<br>for wood                           | Metriche<br>Metrics                                                                 |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                   |                                                                                         |                                                                                         |  |  |  |  |  |
|  | <br>Nm | <br>Nm | ISO 1479<br>=<br>DIN 7976                                                         | DIN 571                                                                           | ISO<br>4014<br>4016<br>4017                                                         | ISO<br>4035<br>4036<br>=<br>DIN 439                                                 | ISO<br>4032<br>4033<br>=<br>DIN 934                                                 |
| <b>4</b>                                                                          |                                                                                         | 10,4                                                                                    |                                                                                   |                                                                                   | 2,0                                                                                 | 2,0                                                                                 | 2,0                                                                                 |
| <b>4,5</b>                                                                        |                                                                                         | 12,6                                                                                    |                                                                                   |                                                                                   | 2,3                                                                                 |                                                                                     |                                                                                     |
| <b>5</b>                                                                          | 11,5                                                                                    | 15,1                                                                                    | 2,9                                                                               |                                                                                   | 2,5                                                                                 | 2,5                                                                                 | 2,5                                                                                 |
| <b>5,5</b>                                                                        | 14,4                                                                                    | 17,8                                                                                    | 3,5                                                                               |                                                                                   | 3,0                                                                                 | 3,0                                                                                 | 3,0                                                                                 |
| <b>6</b>                                                                          | 17,6                                                                                    | 23,2                                                                                    |                                                                                   |                                                                                   | 3,5                                                                                 | 3,5                                                                                 | 3,5                                                                                 |
| <b>7</b>                                                                          | 25,2                                                                                    | 33,2                                                                                    | 3,9<br>4,2                                                                        | 4,0                                                                               | 4,0                                                                                 | 4,0                                                                                 | 4,0                                                                                 |
| <b>8*</b>                                                                         | 34,5                                                                                    | 94,1                                                                                    | 4,8<br>5,5                                                                        | 5,0                                                                               | 5,0                                                                                 | 5,0                                                                                 | 5,0                                                                                 |
| <b>9*</b>                                                                         | 45,4                                                                                    | 119,2                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| <b>10*</b>                                                                        | 58,1                                                                                    | 147,0                                                                                   | 6,3                                                                               | 6,0                                                                               | 6,0                                                                                 | 6,0                                                                                 | 6,0                                                                                 |
| <b>11*</b>                                                                        | 72,7                                                                                    | 178,0                                                                                   |                                                                                   |                                                                                   | 7,0                                                                                 |                                                                                     | 7,0                                                                                 |
| <b>12*</b>                                                                        | 89,1                                                                                    | 212,0                                                                                   |                                                                                   | 7,0                                                                               |                                                                                     |                                                                                     |                                                                                     |
| <b>13*</b>                                                                        | 107,0                                                                                   | 249,0                                                                                   | 8,0                                                                               | 8,0                                                                               | 8,0                                                                                 | 8,0                                                                                 | 8,0                                                                                 |
| <b>14*</b>                                                                        | 128,0                                                                                   | 288,0                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |

\* VALUTARE ANCHE RESISTENZA ATTACCO

\* ALSO EVALUATE ATTACHMENT RESISTANCE

# SCHEDE TECNICHE

## TECHNICAL DATASHEETS

### ATTACCHI MASCHIO STANDARD, APPLICAZIONI, RESISTENZE

#### STANDARD MALE ATTACHMENTS, APPLICATIONS, RESISTANCES

|                                                                                     |  A  B |                                                                                                            | APPLICAZIONE<br>APPLICATION                                                         | STANDARDS           | Nm    |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------|-------|
|    | A=3mm                                                                                                                                                                   |                           |    | DIN 3126 Form A3    | 7,6   |
|    | A=4mm - 5/32"                                                                                                                                                           |                           |    | DIN 3126 Form C4    | 18,0  |
|    | A=5,5mm                                                                                                                                                                 |                           |    | DIN 3126 Form A5,5  | 47,0  |
|    | B=VARIE                                                                                                                                                                 |                           |    | LTI                 | N.A.  |
|   | B=7mm                                                                                                                                                                   |                          |   | LTI                 | N.A.  |
|  | A=6,35mm - 1/4"                                                                                                                                                         |  |  | DIN 3126 Form C6,3  | 71,0  |
|  | A=6,35mm - 1/4"                                                                                                                                                         |  |  | DIN 3126 Form E6,3  | 71,0  |
|  | A=7,93mm - 5/16"                                                                                                                                                        |  |  | DIN 3126 Form C8    | 144,0 |
|  | A=7,93mm - 5/16"                                                                                                                                                        |  |  | FIAM-DESOUTTER      | 144,0 |
|  | A=9,52mm - 3/8"                                                                                                                                                         |  |  | AUTOMOTIVE          | 280,0 |
|  | A=11,2mm - 7/16"                                                                                                                                                        |  |  | DIN 3126 Form E11,2 | 396,0 |
|  | B=M4x0,7                                                                                                                                                                |                         |  | ISO 724 - DIN 13.1  | 7,0   |
|  | B=M5x0,8                                                                                                                                                                |                                                                                                            |                                                                                     | ISO 724 - DIN 13.1  | 18,0  |
|  | B=M6x1                                                                                                                                                                  |                                                                                                            |                                                                                     | ISO 724 - DIN 13.1  | 25,0  |
|  | B=10x32 UNF                                                                                                                                                             |                                                                                                            |                                                                                     | ISO 724 - DIN 13.1  | 18,0  |
|  | B=BSF 3/16x32 Whitworth                                                                                                                                                 |                                                                                                            |                                                                                     | ISO 724 - DIN 13.1  | 18,0  |

# SCHEDE TECNICHE

## TECHNICAL DATASHEETS

### ATTACCHI QUADRO STANDARD, APPLICAZIONI, RESISTENZE

#### STANDARD SQUARE ATTACHMENTS, APPLICATIONS, RESISTANCES

|                                                                                    |  |                                                                                   | APPLICAZIONE<br>APPLICATION                                                       | STANDARDS           | Nm     |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------|--------|
|   | A=6,35mm - 1/4"                                                                   |  |  | DIN 3121 Form G6,3  | 68,6   |
|   | A=9,52mm - 3/8"                                                                   |                                                                                   |                                                                                   | DIN 3121 Form G10   | 225,0  |
|   | A=12,70mm - 1/2"                                                                  |                                                                                   |                                                                                   | DIN 3121 Form G12,5 | 569,0  |
|   | A=19,05mm - 3/4"                                                                  |                                                                                   |                                                                                   | DIN 3121 Form H20   | 1569,0 |
|   | A=25,40mm - 1"                                                                    |                                                                                   |                                                                                   | DIN 3121 Form H25   | 2795,0 |
|  | A=38,10mm - 1-1/2"                                                                |                                                                                   |                                                                                   | DIN 3121 Form H40   |        |

|                                                                                     |  |                                                                                     | APPLICAZIONE<br>APPLICATION                                                         | STANDARDS           | Nm     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------|--------|
|  | A=6,35mm - 1/4"                                                                     |  |  | DIN 3121 Form G6,3  | 62,0   |
|  | A=9,52mm - 3/8"                                                                     |                                                                                     |                                                                                     | DIN 3121 Form G10   | 202,0  |
|  | A=12,70mm - 1/2"                                                                    |                                                                                     |                                                                                     | DIN 3121 Form G12,5 | 512,0  |
|  | A=19,05mm - 3/4"                                                                    |                                                                                     |                                                                                     | DIN 3121 Form D20   | 1412,0 |