

**Scheda tecnica VITE TSP TX TRUCIOLARE zincata bianca,**  
**27/02/2024**

## MECCANOCAR

**Cod. da 219TX07000 a 219TX07650 – Vite TSP TX truciolare ZB**

Viti autofilettanti a testa svasata piana con impronta Torx.

Il sottotesta è dotato di alette interne quali:

- fresano il legno, creano una svasatura netta ed evitano la fessurazione;
- a contatto con la ferramenta frenano prevenendo la “spanatura”.

Il filetto ondulato brevettato Spax:

- facilita l'avvitamento poiché la penetrazione è molto più facile;
- contribuisce ad aumentare la tenuta ed il fissaggio.

La punta autoforante quadra:

- evita di fare il preforo, anche nei legni più duri;
- non “crepa” il legno, tranciandone le fibre.

L'impronta Torx consente di trasmettere una coppia decisamente superiore senza dover esercitare un'elevata pressione. Infatti, grazie alle pareti verticali dell'impronta T-Star Plus, l'inserto ha una maggiore aderenza e non viene spinto all'esterno, pertanto:

- l'inserto trasmette interamente la forza di avvitamento;
- si riduce il “gioco” tra l'impronta e l'inserto, evitando slittamenti;
- l'impronta della vite non si “sgrana” e l'inserto non si rovina;
- si abbina la praticità alla bellezza estetica.

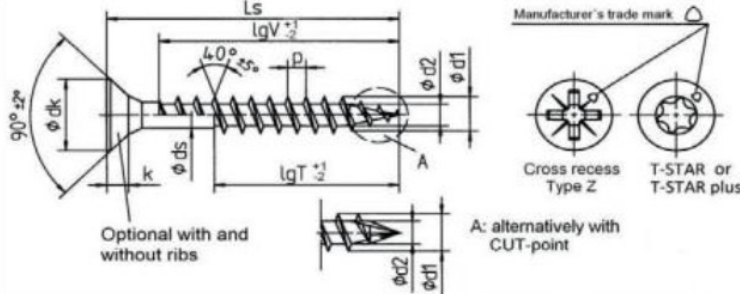
Adatte per l'avvitamento su ogni materiale: pannelli truciolari, legni, masselli duri e teneri, ferramenta, materiali termoplastici, lamiere sottili.

### Testa svasata piana



| Diametro nominale           | 2,5  | 3,0           | 3,5         | 4,0       | 4,5   | 5,0  | 6,0  |
|-----------------------------|------|---------------|-------------|-----------|-------|------|------|
| Ø filetto esterno           | 2,5  | 3,1           | 3,5         | 4,0       | 4,5   | 5,0  | 6,0  |
| toleranza                   |      |               |             | ± 0,3     |       |      |      |
| Ø testa                     | 5,1  | 6,0           | 7,0         | 8,0       | 8,8   | 9,7  | 11,6 |
| toleranza                   |      | ± 0,5         |             |           | ± 0,6 |      |      |
| Ø gambo parte filettata     | 1,7  | 1,9           | 2,2         | 2,5       | 2,8   | 3,22 | 3,8  |
| toleranza                   | -0,3 | +0,15 / -0,25 | -0,3        |           | ± 0,3 |      |      |
| Ø gambo parte non filettata | 1,80 | 2,15          | 2,45        | 2,85      | 3,20  | 3,55 | 4,30 |
| toleranza                   |      |               |             | ± 0,10    |       |      |      |
| Altezza testa               | 1,6  | 1,8           | 2,1         | 2,4       | 2,7   | 2,9  | 3,4  |
| Passo filetto               | 1,3  | 1,5           | 1,8         | 2,0       | 2,2   | 2,5  | 3,0  |
| toleranza                   |      |               |             | ± 0,1 x p |       |      |      |
| Impronta T-Star (TX)        | T 8  | T 10          | T 15 / T 20 | T 20      | T 25  | T 30 |      |



|  <b>SPAX®-S</b>               |                       | Self-tapping screw with full and partial thread<br>Material: cold rolled wire according to SPAX - Factory Standard<br>Screws of high carbon steel |             |            |            |            |            |            |      |      |      |      |      |      |      |      |  |
|----------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|------------|------------|------------|------------|------|------|------|------|------|------|------|------|--|
| Flat countersunk head                                                                                          |                       |                                                                                                                                                   |             |            |            |            |            |            |      |      |      |      |      |      |      |      |  |
|                              |                       |                                                                                                                                                   |             |            |            |            |            |            |      |      |      |      |      |      |      |      |  |
| <b>Nominal diameter</b>                                                                                        |                       | <b>2,5</b>                                                                                                                                        | <b>3,0</b>  | <b>3,5</b> | <b>4,0</b> | <b>4,5</b> | <b>5,0</b> | <b>6,0</b> |      |      |      |      |      |      |      |      |  |
| d1                                                                                                             | thread size           | 2,5                                                                                                                                               | 3,1         | 3,5        | 4,0        | 4,5        | 5,0        | 6,0        |      |      |      |      |      |      |      |      |  |
|                                                                                                                | permissible tolerance | ±0,3                                                                                                                                              |             |            |            |            |            |            |      |      |      |      |      |      |      |      |  |
| dk                                                                                                             | head diameter         | 5,1                                                                                                                                               | 6,0         | 7,0        | 8,0        | 8,8        | 9,7        | 11,6       |      |      |      |      |      |      |      |      |  |
|                                                                                                                | permissible tolerance | ±0,5                                                                                                                                              |             |            |            |            |            |            |      |      |      |      |      |      |      |      |  |
| d2                                                                                                             | core diameter         | 1,7                                                                                                                                               | 1,9         | 2,2        | 2,5        | 2,8        | 3,2        | 3,8        |      |      |      |      |      |      |      |      |  |
|                                                                                                                | permissible tolerance | -0,30                                                                                                                                             | +0,15/-0,25 | -0,30      | ±0,3       |            |            |            |      |      |      |      |      |      |      |      |  |
| ds                                                                                                             | shank diameter        | 1,8                                                                                                                                               | 2,15        | 2,45       | 2,85       | 3,20       | 3,55       | 4,30       |      |      |      |      |      |      |      |      |  |
|                                                                                                                | permissible tolerance | ±0,10                                                                                                                                             |             |            |            |            |            |            |      |      |      |      |      |      |      |      |  |
| k                                                                                                              | head height max.      | 1,6                                                                                                                                               | 1,8         | 2,1        | 2,4        | 2,7        | 2,9        | 3,4        |      |      |      |      |      |      |      |      |  |
| p                                                                                                              | thread pitch          | 1,3                                                                                                                                               | 1,5         | 1,8        | 2,0        | 2,2        | 2,5        | 3,0        |      |      |      |      |      |      |      |      |  |
|                                                                                                                | permissible tolerance | ±0,1 x p                                                                                                                                          |             |            |            |            |            |            |      |      |      |      |      |      |      |      |  |
| T-STAR size                                                                                                    |                       | T8                                                                                                                                                | T10         | T15 / T20  | T20        |            |            |            | T25  |      |      |      | T30  |      |      |      |  |
| Cross recess size Type Z                                                                                       |                       | 1                                                                                                                                                 |             |            |            | 2          |            |            |      | 3    |      |      |      |      |      |      |  |
| Ls                                                                                                             |                       | Standard thread lengths ( full thread = lgV / partial thread = lgT )                                                                              |             |            |            |            |            |            |      |      |      |      |      |      |      |      |  |
| Nom. dim.                                                                                                      | min                   | max                                                                                                                                               | lgV         | lgT        | lgV        | lgT        | lgV        | lgT        | lgV  | lgT  | lgV  | lgT  | lgV  | lgT  | lgV  | lgT  |  |
| 12                                                                                                             | 12,0                  | 13,5                                                                                                                                              | 10,0        |            |            |            |            |            |      |      |      |      |      |      |      |      |  |
| 15                                                                                                             | 14,0                  | 15,5                                                                                                                                              | 12,0        |            | 12,5       |            |            |            |      |      |      |      |      |      |      |      |  |
| 16                                                                                                             | 16,0                  | 17,5                                                                                                                                              | 14,0        | 14,0       |            |            |            |            |      |      |      |      |      |      |      |      |  |
| 20                                                                                                             | 18,5                  | 20,5                                                                                                                                              | 17,0        | 12,0       | 17,0       |            | 16,0       |            | 16,0 |      |      |      |      |      |      |      |  |
| 25                                                                                                             | 23,5                  | 25,5                                                                                                                                              | 22,0        | 18,0       | 22,0       | 18,0       | 21,0       | 18,0       | 21,0 |      | 20,0 |      | 20,0 |      |      |      |  |
| 30                                                                                                             | 28,5                  | 30,5                                                                                                                                              | 27,0        | 18,0       | 26,0       | 18,0       | 25,0       | 18,0       | 25,0 | 18,0 | 25,0 |      | 25,0 |      | 24,0 |      |  |
| 35                                                                                                             | 33,5                  | 36,0                                                                                                                                              |             | 22,0       | 31,0       | 23,0       | 30,0       | 23,0       | 30,0 | 23,0 | 30,0 | 25,0 | 30,0 | 25,0 | 29,0 | 24,0 |  |
| 40                                                                                                             | 38,5                  | 41,0                                                                                                                                              |             | 22,0       | 36,0       | 23,0       | 35,0       | 23,0       | 35,0 | 23,0 | 34,0 | 25,0 | 35,0 | 27,0 | 34,0 | 24,0 |  |
| 45                                                                                                             | 43,5                  | 46,0                                                                                                                                              |             | 28,0       | 36,0       | 28,0       | 40,0       | 30,0       | 40,0 | 30,0 | 39,0 | 30,0 | 39,0 | 30,0 | 38,0 | 29,0 |  |
| 50                                                                                                             | 48,5                  | 51,0                                                                                                                                              |             |            |            | 28,0       | 40,0       | 32,0       | 45,0 | 32,0 | 44,0 | 32,0 | 44,0 | 32,0 | 43,0 | 32,0 |  |
| 55                                                                                                             | 53,5                  | 56,0                                                                                                                                              |             |            |            | 36,0       |            | 35,0       | 50,0 | 35,0 | 49,0 | 37,0 | 49,0 | 37,0 | 48,0 | 37,0 |  |
| 60                                                                                                             | 58,5                  | 61,0                                                                                                                                              |             |            |            |            |            | 35,0       | 50,0 | 35,0 | 54,0 | 37,0 | 54,0 | 37,0 | 53,0 | 37,0 |  |
| 65                                                                                                             | 63,5                  | 66,0                                                                                                                                              |             |            |            |            |            | 40,0       |      | 37,5 | 59,0 | 42,0 | 59,0 | 41,0 | 58,0 | 41,0 |  |
| 70                                                                                                             | 68,5                  | 71,0                                                                                                                                              |             |            |            |            |            |            |      | 37,5 | 59,0 | 42,0 | 61,0 | 41,0 | 61,0 | 41,0 |  |
| 75                                                                                                             | 73,5                  | 76,0                                                                                                                                              |             |            |            |            |            |            |      | 37,5 |      | 42,0 | 61,0 | 41,0 | 61,0 | 41,0 |  |
| 80                                                                                                             | 78,5                  | 81,0                                                                                                                                              |             |            |            |            |            |            |      | 37,5 |      | 47,0 | 61,0 | 46,0 | 61,0 | 46,0 |  |
| 90                                                                                                             | 88,5                  | 91,5                                                                                                                                              |             |            |            |            |            |            |      |      |      | 47,0 |      | 61,0 |      | 61,0 |  |
| 100                                                                                                            | 98,5                  | 101,5                                                                                                                                             |             |            |            |            |            |            |      |      |      |      |      | 61,0 |      | 61,0 |  |
| 110                                                                                                            | 108,5                 | 111,5                                                                                                                                             |             |            |            |            |            |            |      |      |      |      |      | 69,0 |      | 68,0 |  |
| 120                                                                                                            | 118,5                 | 121,5                                                                                                                                             |             |            |            |            |            |            |      |      |      |      |      | 69,0 |      | 68,0 |  |
| 130                                                                                                            | 128,0                 | 132,0                                                                                                                                             |             |            |            |            |            |            |      |      |      |      |      |      |      | 68,0 |  |
| 140                                                                                                            | 138,0                 | 142,0                                                                                                                                             |             |            |            |            |            |            |      |      |      |      |      |      |      | 68,0 |  |
| 150                                                                                                            | 148,0                 | 152,0                                                                                                                                             |             |            |            |            |            |            |      |      |      |      |      |      |      | 68,0 |  |
| 160                                                                                                            | 158,0                 | 162,0                                                                                                                                             |             |            |            |            |            |            |      |      |      |      |      |      |      | 68,0 |  |
| Screws of Ø6,0 mm with partial thread additionally in lenght of 180 to 300 mm, in steps of 20 mm, LgT= 68,0 mm |                       |                                                                                                                                                   |             |            |            |            |            |            |      |      |      |      |      |      |      |      |  |
| Intermediate lengths on Ls possible                                                                            |                       |                                                                                                                                                   |             |            |            |            |            |            |      |      |      |      |      |      |      |      |  |
| Other thread lengths in the range ≥4xdl to max. standard length permitted.                                     |                       |                                                                                                                                                   |             |            |            |            |            |            |      |      |      |      |      |      |      |      |  |
| Annex A1                                                                                                       |                       |                                                                                                                                                   |             |            |            |            |            |            |      |      |      |      |      |      |      |      |  |



# meccanocar

FORNITURE PROFESSIONALI PER AUTOMOTIVE, ARTIGIANATO E INDUSTRIA

**SPAX®-S**

Flat countersunk head

Self-tapping screw with full and partial thread

Material: cold rolled wire according to SPAX - Factory Standard  
Screws of high carbon steel

| Nominal diameter         |                       | 7,0      |                                                                      |      |  |  |  |  |  |  |  |  |  |  |
|--------------------------|-----------------------|----------|----------------------------------------------------------------------|------|--|--|--|--|--|--|--|--|--|--|
| d1                       | thread size           | 7,0      |                                                                      |      |  |  |  |  |  |  |  |  |  |  |
|                          | permissible tolerance | ±0,35    |                                                                      |      |  |  |  |  |  |  |  |  |  |  |
| dk                       | head diameter         | 13,1     |                                                                      |      |  |  |  |  |  |  |  |  |  |  |
|                          | permissible tolerance | ±0,65    |                                                                      |      |  |  |  |  |  |  |  |  |  |  |
| d2                       | core diameter         | 4,5      |                                                                      |      |  |  |  |  |  |  |  |  |  |  |
|                          | permissible tolerance | ±0,3     |                                                                      |      |  |  |  |  |  |  |  |  |  |  |
| ds                       | shank diameter        | 4,90     |                                                                      |      |  |  |  |  |  |  |  |  |  |  |
|                          | permissible tolerance | ±0,10    |                                                                      |      |  |  |  |  |  |  |  |  |  |  |
| k                        | head height max.      | 3,8      |                                                                      |      |  |  |  |  |  |  |  |  |  |  |
| p                        | thread pitch          | 3,5      |                                                                      |      |  |  |  |  |  |  |  |  |  |  |
|                          | permissible tolerance | ±0,1 x p |                                                                      |      |  |  |  |  |  |  |  |  |  |  |
| T - STAR size            |                       | T30      |                                                                      |      |  |  |  |  |  |  |  |  |  |  |
| Cross recess size Type Z |                       | 3        |                                                                      |      |  |  |  |  |  |  |  |  |  |  |
| Ls                       |                       |          | Standard thread lengths ( full thread = lgV / partial thread = lgT ) |      |  |  |  |  |  |  |  |  |  |  |
| Nom. dim.                | min                   | max      | lgV                                                                  | lgT  |  |  |  |  |  |  |  |  |  |  |
| 40                       | 38,5                  | 41,0     | 33,0                                                                 |      |  |  |  |  |  |  |  |  |  |  |
| 45                       | 43,5                  | 46,0     | 38,0                                                                 |      |  |  |  |  |  |  |  |  |  |  |
| 50                       | 48,5                  | 51,0     | 43,0                                                                 | 33,0 |  |  |  |  |  |  |  |  |  |  |
| 55                       | 53,5                  | 56,0     | 48,0                                                                 | 33,0 |  |  |  |  |  |  |  |  |  |  |
| 60                       | 58,5                  | 61,0     | 53,0                                                                 | 38,0 |  |  |  |  |  |  |  |  |  |  |
| 65                       | 63,5                  | 66,0     | 58,0                                                                 | 38,0 |  |  |  |  |  |  |  |  |  |  |
| 70                       | 68,5                  | 71,0     | 61,0                                                                 | 43,0 |  |  |  |  |  |  |  |  |  |  |
| 75                       | 73,5                  | 76,0     | 68,0                                                                 | 43,0 |  |  |  |  |  |  |  |  |  |  |
| 80                       | 78,5                  | 81,0     | 68,0                                                                 | 48,0 |  |  |  |  |  |  |  |  |  |  |
| 90                       | 88,5                  | 91,5     | 68,0                                                                 | 53,0 |  |  |  |  |  |  |  |  |  |  |
| 100                      | 98,5                  | 101,5    | 68,0                                                                 | 58,0 |  |  |  |  |  |  |  |  |  |  |
| 110                      | 108,5                 | 111,5    |                                                                      | 68,0 |  |  |  |  |  |  |  |  |  |  |
| 120                      | 118,5                 | 121,5    |                                                                      | 68,0 |  |  |  |  |  |  |  |  |  |  |
| 130                      | 128,0                 | 132,0    |                                                                      | 68,0 |  |  |  |  |  |  |  |  |  |  |
| 140                      | 138,0                 | 142,0    |                                                                      | 68,0 |  |  |  |  |  |  |  |  |  |  |
| 150                      | 148,0                 | 152,0    |                                                                      | 68,0 |  |  |  |  |  |  |  |  |  |  |
| 160                      | 158,0                 | 162,0    |                                                                      | 68,0 |  |  |  |  |  |  |  |  |  |  |
| 180                      | 178,0                 | 182,0    |                                                                      | 68,0 |  |  |  |  |  |  |  |  |  |  |
| 200                      | 198,0                 | 202,0    |                                                                      | 68,0 |  |  |  |  |  |  |  |  |  |  |
| bis                      |                       |          |                                                                      |      |  |  |  |  |  |  |  |  |  |  |
| 400                      | 397,0                 | 402,0    |                                                                      | 68,0 |  |  |  |  |  |  |  |  |  |  |

Lengths over 200 mm to 400 mm in steps of 20 mm

Other thread lengths in the range  $\geq 4 \times d1$   
to max. standard length permitted.

Intermediate lengths on Ls possible

Annex A2

Pagine dell'Approvazione Tecnica Europea n. ETA-12/0114.