

MITSUBISHI

MITSUBISHI CARBIDE

Foret à embout monobloc amovible

B060F

TAW

Performances stables d'un foret à embout monobloc amovible

Nouveau trou de fixation - Fiabilité augmentée

Nouveau



Plaquette type H

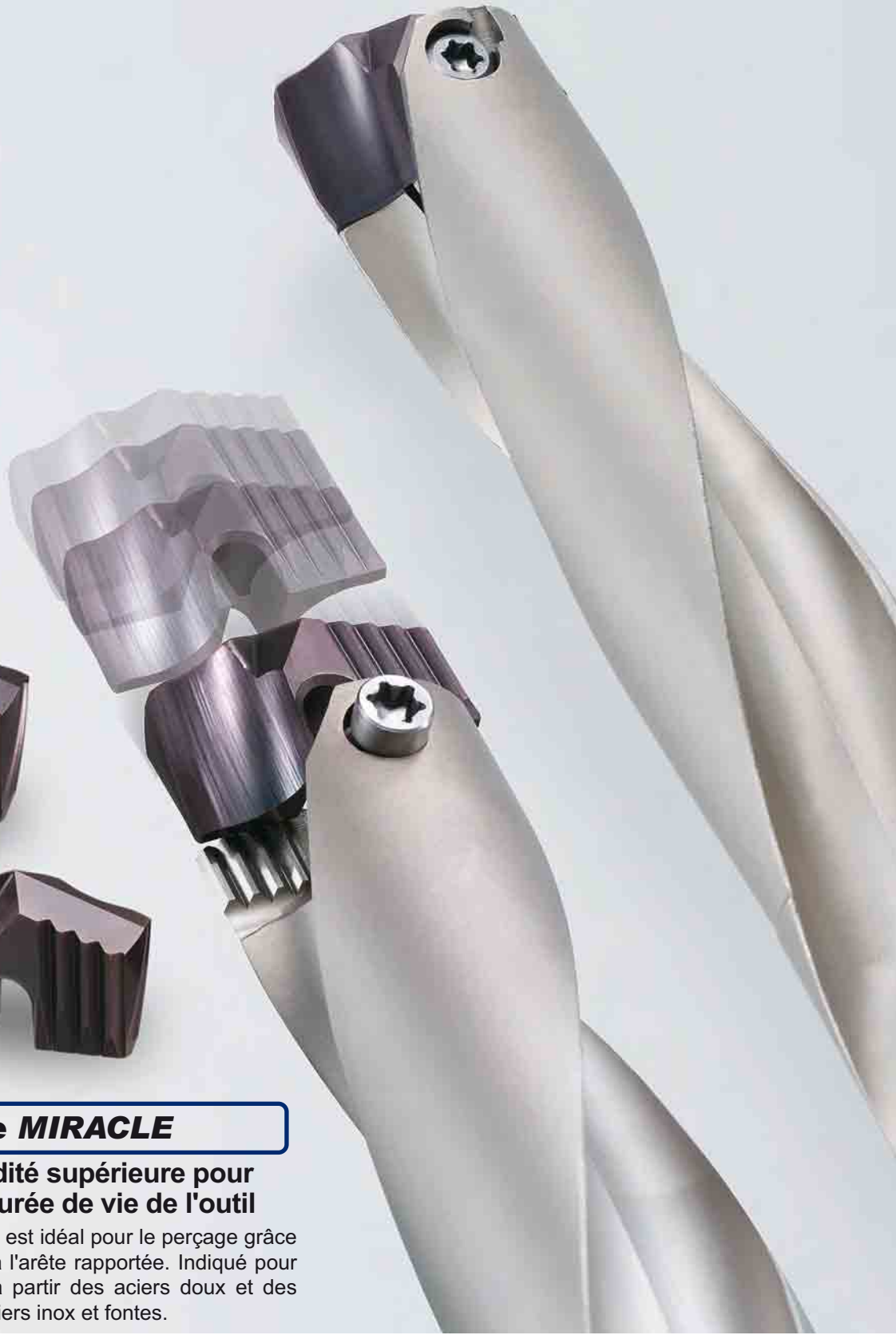


Plaquette type U

Revêtué *MIRACLE*

Nuance d'une rigidité supérieure pour une plus longue durée de vie de l'outil

Le revêtement *MIRACLE* est idéal pour le perçage grâce à sa grande résistance à l'arête rapportée. Indiqué pour l'usinage des matières à partir des aciers doux et des aciers alliés jusqu'aux aciers inox et fontes.



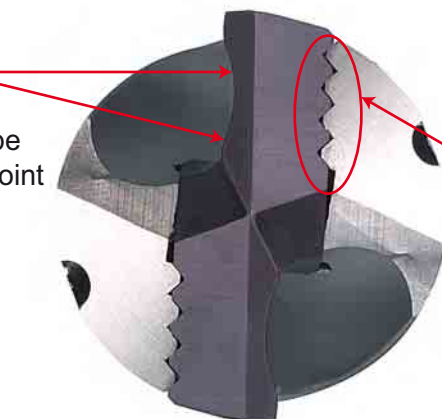
Foret TAW

Caractéristiques

Etudié pour un affûtage et une précision extrêmes

Contrôle supérieur des copeaux

La géométrie ondulée de l'arête permet d'obtenir un profil de coupe périphérique tranchant avec un point de coupe initial près du centre.





Géométrie de l'arête de coupe

Géométrie de blocage de l'embout

La structure unique de profil canelé de Mitsubishi permet de garder une précision élevée du serrage.

Plaquettes

Nouveau trou de fixation - Fiabilité augmentée

| Plaquette type U | Plaquette type H |
|---|---|
|  |  |
| Emploi facile | Fixation sécurisée |

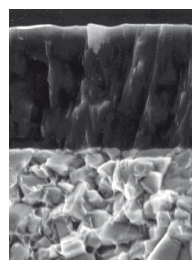
Emploi facile

- Les embouts monobloc peuvent être facilement remplacés par un simple desserrage de la vis.



Longue durée de vie

- La nuance de l'embout monobloc revêtu **MIRACLE VP15TF** permet une durée de vie de l'outil exceptionnelle.



Revêtement **MIRACLE** (Al, Ti)N

Carbure métallique micro-grain TF15

VP15TF

Caractéristiques de VP15TF

Le revêtement MIRACLE est idéal pour le perçage grâce à sa grande résistance à l'arête rapportée. Indiqué pour les usinages des matières à partir des aciers doux et des aciers alliés jusqu'aux aciers inox et fontes.

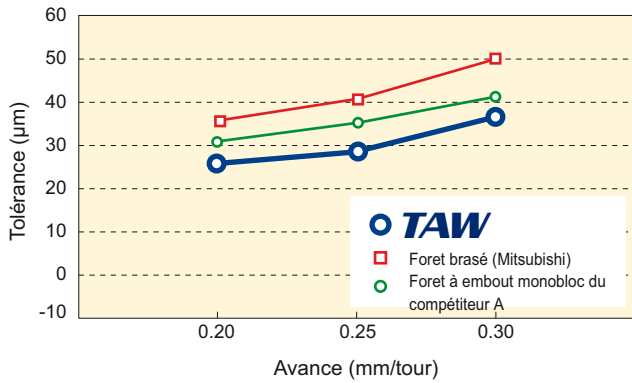
Corps très résistants

- Le traitement de surface spécial sur un corps d'acier allié supérieur, avec une grande résistance thermique, augmente la résistance à la corrosion et à l'abrasion.



Performances de coupe

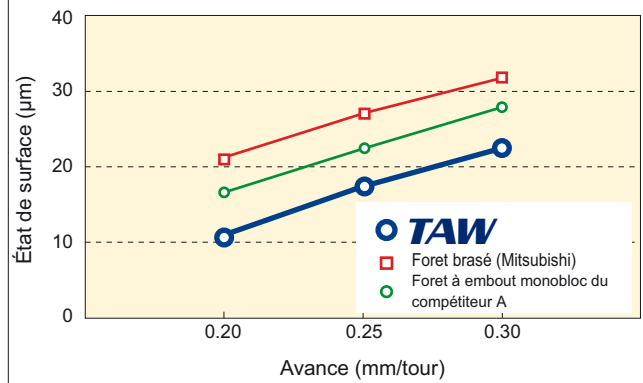
Tolérance



<Conditions de coupe>

Pièce : DIN C50(150 - 180HB)
 Diamètre foret : $\varnothing 20(L/D=5)$
 Vitesse de coupe : 80m/min
 Arrosage : Émulsion 10%
 Pression : 0.5MPa (Arrosage intérieur)

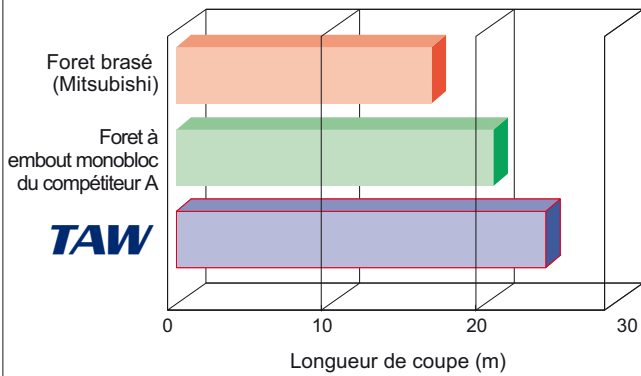
État de surface



<Conditions de coupe>

Pièce : DIN C50(150 - 180HB)
 Diamètre foret : $\varnothing 20(L/D=5)$
 Vitesse de coupe : 80m/min
 Arrosage : Émulsion 10%
 Pression : 0.5MPa (Arrosage intérieur)

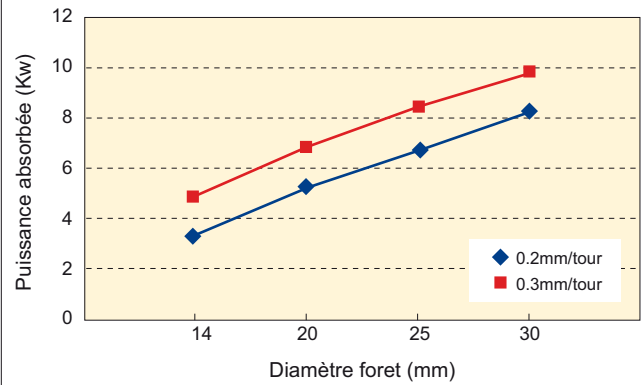
Durée de vie de l'embout monobloc



<Conditions de coupe>

Pièce : DIN C50(150 - 180HB) Arrosage : Émulsion 10%
 Diamètre foret : $\varnothing 20(L/D=5)$ Pression : 0.5MPa (Arrosage intérieur)
 Vitesse de coupe : 100m/min
 Avance : 0.25(mm/tour)

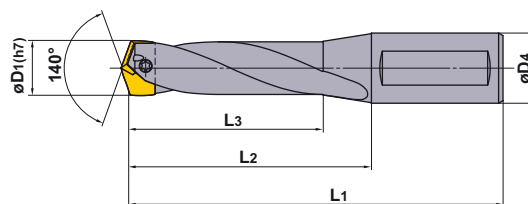
Puissance absorbée



<Conditions de coupe>

Pièce : DIN C50 (150 - 180HB)
 Vitesse de coupe : 80m/min
 Arrosage : Émulsion 10%
 Pression : 0.5MPa (Arrosage intérieur)

(Usage général)



| Plage dia. foret D1 (mm) | Prof. trou (l/d) | Outil | | Embout monobloc | | | | Dimensions (mm) | | | | Vis de fixation | Clé | Plaque | Lubrifiant anti-grippage |
|--------------------------|------------------|--------------------------|-------|--------------------|------------|--------|-------|-----------------|-----|-----|----|-----------------|--------|---------|--------------------------|
| | | Référence | Stock | Dia. foret D1 (mm) | Référence | Stock | | L3 | L2 | L1 | D4 | | | | |
| | | | | | | VP15TF | VP10H | | | | | | | | |
| 14.0 14.4 | 3 | Nouveau TAWSNH1400S16 | ● | 14.0 | TAWNH1400T | ● | □ | 51 | 67 | 115 | 16 | WS254012T | TKY08D | WPT4405 | MK1KS |
| | | | | 14.1 | TAWNH1410T | ● | □ | | | | | | | | |
| | | | | 14.2 | TAWNH1420T | ● | □ | | | | | | | | |
| | 5 | Nouveau TAWMNH1400S16 | ● | 14.3 | TAWNH1430T | ● | □ | 80 | 97 | 145 | 16 | WS254012T | TKY08D | WPT4405 | MK1KS |
| | | | | 14.4 | TAWNH1440T | ● | □ | | | | | | | | |
| 14.5 15.4 | 3 | Nouveau TAWSNH1500S20 | ● | 14.5 | TAWNH1450T | ● | □ | 54 | 75 | 125 | 20 | WS254013T | TKY08D | WPT4405 | MK1KS |
| | | | | 14.6 | TAWNH1460T | ● | □ | | | | | | | | |
| | | | | 14.7 | TAWNH1470T | ● | □ | | | | | | | | |
| | | | | 14.8 | TAWNH1480T | ● | □ | | | | | | | | |
| | | | | 14.9 | TAWNH1490T | ● | □ | | | | | | | | |
| | 5 | Nouveau TAWMNH1500S20 | ● | 15.0 | TAWNH1490T | ● | □ | 85 | 105 | 155 | 20 | WS254013T | TKY08D | WPT4405 | MK1KS |
| | | | | 15.1 | TAWNH1510T | ● | □ | | | | | | | | |
| | | | | 15.2 | TAWNH1520T | ● | □ | | | | | | | | |
| | | | | 15.3 | TAWNH1530T | ● | □ | | | | | | | | |
| | | | | 15.4 | TAWNH1540T | ● | □ | | | | | | | | |
| 15.5 16.4 | 3 | TAWSN1600S20 | ● | 15.5 | TAWN1550T | ★ | □ | 58 | 80 | 130 | 20 | WS254014T | TKY08D | WPT4405 | MK1KS |
| | | | | TAWNH1550T | ● | □ | | | | | | | | | |
| | | | | 15.6 | TAWN1560T | ★ | □ | | | | | | | | |
| | | | | TAWNH1560T | ● | □ | | | | | | | | | |
| | | | | 15.7 | TAWN1570T | ★ | □ | | | | | | | | |
| | | | | TAWNH1570T | ● | □ | | | | | | | | | |
| | | | | 15.8 | TAWN1580T | ★ | □ | | | | | | | | |
| | | | | TAWNH1580T | ● | □ | | | | | | | | | |
| | 5 | TAWMNH1600S20 | ● | 15.9 | TAWN1590T | ★ | □ | 91 | 115 | 165 | 20 | WS254014T | TKY08D | WPT4405 | MK1KS |
| | | | | TAWNH1590T | ● | □ | | | | | | | | | |
| | | | | 16.0 | TAWN1600T | ★ | □ | | | | | | | | |
| | | | | TAWNH1600T | ● | □ | | | | | | | | | |
| | | | | 16.1 | TAWN1610T | ★ | □ | | | | | | | | |
| | | | | TAWNH1610T | ● | □ | | | | | | | | | |
| | | | | 16.2 | TAWN1620T | ★ | □ | | | | | | | | |
| TAWNH1620T | ● | □ | | | | | | | | | | | | | |
| 16.3 | TAWN1630T | ★ | □ | | | | | | | | | | | | |
| TAWNH1630T | ● | □ | | | | | | | | | | | | | |
| 16.4 | TAWN1640T | ★ | □ | | | | | | | | | | | | |
| TAWNH1640T | ● | □ | | | | | | | | | | | | | |

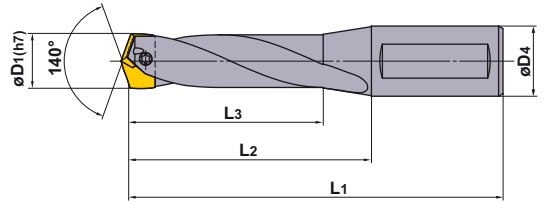
(Note) 1. Dimensions L1, L2, L3 = Plaquette type H.

Note 2 : contactez-nous pour les géométries non prévues dans cette brochure.

(Ex. : différents diamètres, longueurs et forets avec arêtes de coupe chanfreinées peuvent être réalisés à la demande.)

| Plage dia. foret D1 (mm) | Prof. trou (l/d) | Outil | | Embout monobloc | | | | Dimensions (mm) | | | | | | | |
|--------------------------|------------------|--------------|-------|--------------------------|------------|--------------------------|--------------------------|-----------------|-----|-----|-----------|-----------|---------|---------|-------|
| | | Référence | Stock | Dia. foret D1 (mm) | Référence | Stock | | L3 | L2 | L1 | D4 | | | | |
| | | | | | | VP15TF | VP10H | | | | | | | | |
| 16.5 17.4 | 3 | TAWSN1700S20 | ● | 16.5 | TAWN1650T | ★ | <input type="checkbox"/> | 61 | 85 | 135 | 20 | WS254015T | ①TKY08D | WPT4405 | MK1KS |
| | | | | | TAWNH1650T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 16.6 | TAWN1660T | ★ | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH1660T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 16.7 | TAWN1670T | ★ | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH1670T | ● | <input type="checkbox"/> | | | | | | | | |
| | 16.8 | TAWN1680T | ★ | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH1680T | ● | <input type="checkbox"/> | | | | | | | | | | | |
| | 16.9 | TAWN1690T | ★ | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH1690T | ● | <input type="checkbox"/> | | | | | | | | | | | |
| | 17.0 | TAWN1700T | ★ | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH1700T | ● | <input type="checkbox"/> | | | | | | | | | | | |
| | 17.1 | TAWN1710T | ★ | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH1710T | ● | <input type="checkbox"/> | | | | | | | | | | | |
| 5 | TAWMN1700S20 | ● | 17.2 | TAWN1720T | ★ | <input type="checkbox"/> | 96 | 120 | 170 | 20 | WS254015T | ①TKY08D | WPT4405 | MK1KS | |
| | | | | TAWNH1720T | ● | <input type="checkbox"/> | | | | | | | | | |
| | | | 17.3 | TAWN1730T | ★ | <input type="checkbox"/> | | | | | | | | | |
| | | | | TAWN1730TH | ● | <input type="checkbox"/> | | | | | | | | | |
| | | | 17.4 | TAWN1740T | ★ | <input type="checkbox"/> | | | | | | | | | |
| | | | | TAWNH1740T | ● | <input type="checkbox"/> | | | | | | | | | |
| | | | 17.5 | TAWN1750T | ★ | <input type="checkbox"/> | | | | | | | | | |
| | | | | TAWNH1750T | ● | <input type="checkbox"/> | | | | | | | | | |
| 17.5 18.4 | 3 | TAWSN1800S20 | ● | 17.5 | TAWN1750T | ★ | <input type="checkbox"/> | 65 | 90 | 140 | 20 | WS254016T | ①TKY08D | WPT4405 | MK1KS |
| | | | | | TAWNH1750T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 17.6 | TAWN1760T | ★ | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH1760T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 17.7 | TAWN1770T | ★ | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH1770T | ● | <input type="checkbox"/> | | | | | | | | |
| | 17.8 | TAWN1780T | ★ | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH1780T | ● | <input type="checkbox"/> | | | | | | | | | | | |
| | 17.9 | TAWN1790T | ★ | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH1790T | ● | <input type="checkbox"/> | | | | | | | | | | | |
| | 18.0 | TAWN1800T | ★ | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH1800T | ● | <input type="checkbox"/> | | | | | | | | | | | |
| | 18.1 | TAWN1810T | ★ | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH1810T | ● | <input type="checkbox"/> | | | | | | | | | | | |
| 5 | TAWMN1800S20 | ● | 18.2 | TAWN1820T | ★ | <input type="checkbox"/> | 102 | 125 | 175 | 20 | WS254016T | ①TKY08D | WPT4405 | MK1KS | |
| | | | | TAWNH1820T | ● | <input type="checkbox"/> | | | | | | | | | |
| | | | 18.3 | TAWN1830T | ★ | <input type="checkbox"/> | | | | | | | | | |
| | | | | TAWNH1830T | ● | <input type="checkbox"/> | | | | | | | | | |
| | | | 18.4 | TAWN1840T | ★ | <input type="checkbox"/> | | | | | | | | | |
| | | | | TAWNH1840T | ● | <input type="checkbox"/> | | | | | | | | | |
| | | | 18.5 | TAWN1850T | ★ | <input type="checkbox"/> | | | | | | | | | |
| | | | | TAWNH1850T | ● | <input type="checkbox"/> | | | | | | | | | |
| 18.5 19.4 | 3 | TAWSN1900S25 | ● | 18.5 | TAWN1850T | ★ | <input type="checkbox"/> | 68 | 99 | 155 | 25 | WS304517T | ②TKY10T | WPT4405 | MK1KS |
| | | | | | TAWNH1850T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 18.6 | TAWN1860T | ★ | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH1860T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 18.7 | TAWN1870T | ★ | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH1870T | ● | <input type="checkbox"/> | | | | | | | | |
| | 18.8 | TAWN1880T | ★ | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH1880T | ● | <input type="checkbox"/> | | | | | | | | | | | |
| | 18.9 | TAWN1890T | ★ | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH1890T | ● | <input type="checkbox"/> | | | | | | | | | | | |
| | 19.0 | TAWN1900T | ★ | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH1900T | ● | <input type="checkbox"/> | | | | | | | | | | | |
| | 19.1 | TAWN1910T | ★ | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH1910T | ● | <input type="checkbox"/> | | | | | | | | | | | |
| 5 | TAWMN1900S25 | ● | 19.2 | TAWN1920T | ★ | <input type="checkbox"/> | 107 | 134 | 190 | 25 | WS304517T | ②TKY10T | WPT4405 | MK1KS | |
| | | | | TAWNH1920T | ● | <input type="checkbox"/> | | | | | | | | | |
| | | | 19.3 | TAWN1930T | ★ | <input type="checkbox"/> | | | | | | | | | |
| | | | | TAWNH1930T | ● | <input type="checkbox"/> | | | | | | | | | |
| | | | 19.4 | TAWN1940T | ★ | <input type="checkbox"/> | | | | | | | | | |
| | | | | TAWNH1940T | ● | <input type="checkbox"/> | | | | | | | | | |

(Usage général)







| Plage dia. foret D1 (mm) | Prof. trou (l/d) | Outil | | Embout monobloc | | | | Dimensions (mm) | | | | Vis de fixation | Clé | Plaque | Lubrifiant anti-grippage |
|--------------------------|------------------|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------|-------|-------|----|-----------------|--------|---------|--------------------------|
| | | Référence | Stock | Dia. foret D1 (mm) | Référence | Stock | | L3 | L2 | L1 | D4 | | | | |
| | | | | | | VP15TF | VP10H | | | | | | | | |
| 19.5 20.4 | 3 | TAWSN2000S25 | ● | 19.5 | TAWN1950T | ★ | <input type="checkbox"/> | 72 | 99 | 155 | 25 | WS304518T | TKY10T | WPT4405 | MK1KS |
| | | | | | TAWNH1950T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 19.6 | TAWN1960T | ★ | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH1960T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 19.7 | TAWN1970T | ★ | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH1970T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 19.8 | TAWN1980T | ★ | <input type="checkbox"/> | | | | | | | | |
| | | TAWNH1980T | ● | <input type="checkbox"/> | | | | | | | | | | | |
| | | 19.9 | TAWN1990T | ★ | <input type="checkbox"/> | | | | | | | | | | |
| | | | TAWNH1990T | ● | <input type="checkbox"/> | | | | | | | | | | |
| | | 20.0 | TAWN2000T | ★ | <input type="checkbox"/> | | | | | | | | | | |
| | | | TAWNH2000T | ● | <input type="checkbox"/> | | | | | | | | | | |
| | | 20.1 | TAWN2010T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | | | TAWNH2010T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | 5 | TAWMN2000S25 | ● | 20.2 | TAWN2020T | <input type="checkbox"/> | <input type="checkbox"/> | 113 | 139 | 195 | 25 | WS304518T | TKY10T | WPT4405 | MK1KS |
| | | | | | TAWNH2020T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 20.3 | TAWN2030T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2030T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 20.4 | TAWN2040T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2040T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| 20.5 21.4 | 3 | TAWSN2100S25 | ● | 20.5 | TAWN2050T | ★ | <input type="checkbox"/> | 75 | 99 | 155 | 25 | WS304518T | TKY10T | WPT4405 | MK1KS |
| | | | | | TAWNH2050T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 20.6 | TAWN2060T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2060T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 20.7 | TAWN2070T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2070T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 20.8 | TAWN2080T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | TAWNH2080T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | | 20.9 | TAWN2090T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | | | TAWNH2090T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | | 21.0 | TAWN2100T | ★ | <input type="checkbox"/> | | | | | | | | | | |
| | | | TAWNH2100T | ● | <input type="checkbox"/> | | | | | | | | | | |
| | | 21.1 | TAWN2110T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | | | TAWNH2110T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | 5 | TAWMN2100S25 | ● | 21.2 | TAWN2120T | <input type="checkbox"/> | <input type="checkbox"/> | 118 | 139 | 195 | 25 | WS304518T | TKY10T | WPT4405 | MK1KS |
| | | | | | TAWNH2120T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 21.3 | TAWN2130T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2130T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 21.4 | TAWN2140T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2140T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| 21.5 22.4 | 3 | TAWSN2200S25 TAWMN2200S25 | ● | 21.5 | TAWN2150T | ★ | <input type="checkbox"/> | 79.3 | 104.3 | 160.3 | 25 | WS355520T | TKY15T | WPT4405 | MK1KS |
| | | | | | TAWNH2150T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 21.6 | TAWN2160T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2160T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 21.7 | TAWN2170T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2170T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 21.8 | TAWN2180T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2180T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | 21.9 | TAWN2190T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH2190T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |

(Note) 1. Dimensions L1, L2, L3 = Plaquette type H.

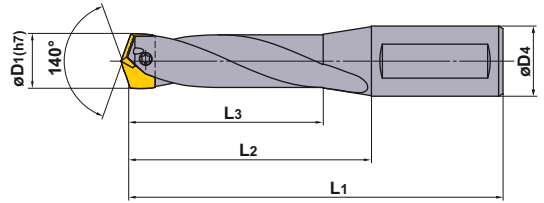
Note 2 : contactez-nous pour les géométries non prévues dans cette brochure.

(Ex. : différents diamètres, longueurs et forets avec arêtes de coupe chanfreinées peuvent être réalisés à la demande.)

● : Article standard stocké. ★ : Article standard Japon. □ : Article non standard - nous consulter.

| Plage dia. foret D1 (mm) | Prof. trou (l/d) | Outil | | Embout monobloc | | | | Dimensions (mm) | | | |  |  |  |  |
|--------------------------|------------------|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------|-------|-------|----|---|---|---|---|
| | | Référence | Stock | Dia. foret D1 (mm) | Référence | Stock | | L3 | L2 | L1 | D4 | | | | |
| | | | | | | VP15TF | VP10H | | | | | Vis de fixation | Clé | Plaque | Lubrifiant anti-grippage |
| 21.5 22.4 | 5 | TAWSN2200S25 TAWMN2200S25 | ● | 22.0 | TAWN2200T | ★ | <input type="checkbox"/> | 124.3 | 144.3 | 200.3 | 25 | WS355520T | TKY15T | WPT4405 | MK1KS |
| | | | | | TAWNH2200T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 22.1 | TAWN2210T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2210T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 22.2 | TAWN2220T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2220T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 22.3 | TAWN2230T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | TAWNH2230T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| 22.4 | TAWN2240T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| | TAWNH2240T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| 22.5 23.4 | 3 | TAWSN2300S25 | ● | 22.5 | TAWN2250T | ★ | <input type="checkbox"/> | 82.3 | 104.3 | 160.3 | 25 | WS355521T | TKY15T | WPT4405 | MK1KS |
| | | | | | TAWNH2250T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 22.6 | TAWN2260T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2260T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 22.7 | TAWN2270T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2270T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | 22.8 | TAWN2280T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH2280T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | 22.9 | TAWN2290T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH2290T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | 5 | TAWMN2300S25 | ● | 23.0 | TAWN2300T | ★ | <input type="checkbox"/> | 129.3 | 154.3 | 210.3 | 25 | WS355521T | TKY15T | WPT4405 | MK1KS |
| | | | | | TAWNH2300T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 23.1 | TAWN2310T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2310T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| 23.2 | | | | TAWN2320T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | |
| | | | | TAWNH2320T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | |
| 23.3 | | | | TAWN2330T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | |
| | | | | TAWNH2330T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | |
| 23.4 | TAWN2340T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| | TAWNH2340T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| 23.5 24.4 | 3 | TAWSN2400S32 | ● | 23.5 | TAWN2350T | ★ | <input type="checkbox"/> | 86.3 | 110.3 | 170.3 | 32 | WS355521T | TKY15T | WPT4405 | MK1KS |
| | | | | | TAWNH2350T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 23.6 | TAWN2360T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2360T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 23.7 | TAWN2370T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2370T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | 23.8 | TAWN2380T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH2380T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | 23.9 | TAWN2390T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH2390T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | 5 | TAWMN2400S32 | ● | 24.0 | TAWN2400T | ★ | <input type="checkbox"/> | 135.3 | 160.3 | 220.3 | 32 | WS355521T | TKY15T | WPT4405 | MK1KS |
| | | | | | TAWNH2400T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 24.1 | TAWN2410T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2410T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| 24.2 | | | | TAWN2420T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | |
| | | | | TAWNH2420T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | |
| 24.3 | | | | TAWN2430T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | |
| | | | | TAWNH2430T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | |
| 24.4 | TAWN2440T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| | TAWNH2440T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| 24.5 25.4 | 3 | TAWSN2500S32 TAWMN2500S32 | ● | 24.5 | TAWN2450T | ★ | <input type="checkbox"/> | 88.6 | 110.6 | 170.3 | 32 | WS406023T | TKY25T | WPT4405 | MK1KS |
| | | | | | TAWNH2450T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 24.6 | TAWN2460T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2460T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 24.7 | TAWN2470T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2470T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 24.8 | TAWN2480T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | TAWNH2480T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| 24.9 | TAWN2490T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| | TAWNH2490T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |

(Usage général)







| Plage dia. foret D1 (mm) | Prof. trou (l/d) | Outil | | Embout monobloc | | | | Dimensions (mm) | | | | Vis de fixation | Clé | Plaque | Lubrifiant anti-grippage | | |
|--------------------------|------------------|------------------------------|--------------------------|--------------------------|------------|--------------------------|--------------------------|-----------------|-----------|--------|---------|-----------------|--------|---------|--------------------------|--|--|
| | | Référence | Stock | Dia. foret D1 (mm) | Référence | Stock | | L3 | L2 | L1 | D4 | | | | | | |
| | | | | | | VP15TF | VP10H | | | | | | | | | | |
| 24.5 25.4 | 5 | TAWSN2500S32 TAWMN2500S32 | ● | 25.0 | TAWN2500T | ★ | <input type="checkbox"/> | 140.6 | 165.6 | 225.6 | 32 | WS406023T | TKY25T | WPT4405 | MK1KS | | |
| | | | | | TAWNH2500T | ● | <input type="checkbox"/> | | | | | | | | | | |
| | | | | 25.1 | TAWN2510T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | | | | | TAWNH2510T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | | | | 25.2 | TAWN2520T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | | | | | TAWNH2520T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | | | | 25.3 | TAWN2530T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | TAWNH2530T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | |
| | | | | 25.4 | TAWN2540T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | | | | | TAWNH2540T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| 25.5 26.4 | 3 | TAWSN2600S32 | ● | 25.5 | TAWN2550T | ★ | <input type="checkbox"/> | 92.6 | 115.6 | 175.6 | 32 | WS406024T | TKY25T | WPT4405 | MK1KS | | |
| | | | | | TAWNH2550T | ● | <input type="checkbox"/> | | | | | | | | | | |
| | | | | 25.6 | TAWN2560T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | | | | | TAWNH2560T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | | | | 25.7 | TAWN2570T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | | | | | TAWNH2570T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | 25.8 | TAWN2580T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | |
| | | TAWNH2580T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | |
| | 25.9 | TAWN2590T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | |
| | | TAWNH2590T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | |
| | 26.0 | TAWN2600T | ★ | <input type="checkbox"/> | 146.6 | 170.6 | 230.6 | 32 | WS406024T | TKY25T | WPT4405 | MK1KS | | | | | |
| | | TAWNH2600T | ● | <input type="checkbox"/> | | | | | | | | | | | | | |
| | 26.1 | TAWN2610T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | |
| | TAWNH2610T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | |
| 26.2 | TAWN2620T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | |
| | TAWNH2620T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | |
| 26.3 | TAWN2630T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | |
| | TAWNH2630T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | |
| 26.4 | TAWN2640T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | |
| | TAWNH2640T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | |
| 26.5 27.4 | 3 | TAWSN2700S32 | ● | 26.5 | TAWN2650T | ★ | <input type="checkbox"/> | 94.6 | 115.6 | 175.6 | 32 | WS406024T | TKY25T | WPT4405 | MK1KS | | |
| | | | | | TAWNH2650T | ● | <input type="checkbox"/> | | | | | | | | | | |
| | | | | 26.6 | TAWN2660T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | | | | | TAWNH2660T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | | | | 26.7 | TAWN2670T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | | | | | TAWNH2670T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| | 26.8 | TAWN2680T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | |
| | | TAWNH2680T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | |
| | 26.9 | TAWN2690T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | |
| | | TAWNH2690T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | |
| | 27.0 | TAWN2700T | ★ | <input type="checkbox"/> | 151.6 | 175.6 | 235.6 | 32 | WS406024T | TKY25T | WPT4405 | MK1KS | | | | | |
| | | TAWNH2700T | ● | <input type="checkbox"/> | | | | | | | | | | | | | |
| | 27.1 | TAWN2710T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | |
| | TAWNH2710T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | |
| 27.2 | TAWN2720T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | |
| | TAWNH2720T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | |
| 27.3 | TAWN2730T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | |
| | TAWNH2730T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | |
| 27.4 | TAWN2740T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | |
| | TAWNH2740T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | |

(Note) 1. Dimensions L1, L2, L3 = Plaquette type H.

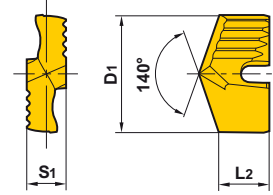
Note 2 : contactez-nous pour les géométries non prévues dans cette brochure.

(Ex. : différents diamètres, longueurs et forets avec arêtes de coupe chanfreinées peuvent être réalisés à la demande.)

● : Article standard stocké. ★ : Article standard Japon. □ : Article non standard - nous consulter.

| Plage dia. foret D1 (mm) | Prof. trou (l/d) | Outil | | Embout monobloc | | | | Dimensions (mm) | | | |  |  |  |  |
|--------------------------|------------------|--------------------------|--------------------------|--------------------------|------------|--------------------------|--------------------------|-----------------|-----------|--------|---------|---|---|---|---|
| | | Référence | Stock | Dia. foret D1 (mm) | Référence | Stock | | L3 | L2 | L1 | D4 | | | | |
| | | | | | | VP15TF | VP10H | | | | | Vis de fixation | Clé | Plaque | Lubrifiant anti-grippage |
| 27.5 28.4 | 3 | TAWSN2800S32 | ● | 27.5 | TAWN2750T | ★ | <input type="checkbox"/> | 97.2 | 120.2 | 180.2 | 32 | WS508026T | TKY27T | WPT4405 | MK1KS |
| | | | | | TAWNH2750T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 27.6 | TAWN2760T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2760T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 27.7 | TAWN2770T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2770T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 27.8 | TAWN2780T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | TAWNH2780T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | 27.9 | TAWN2790T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH2790T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | 28.0 | TAWN2800T | ★ | <input type="checkbox"/> | 157.2 | 180.2 | 240.2 | 32 | WS508026T | TKY27T | WPT4405 | MK1KS | | | |
| | | TAWNH2800T | ● | <input type="checkbox"/> | | | | | | | | | | | |
| | 28.1 | TAWN2810T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH2810T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| 28.2 | TAWN2820T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| | TAWNH2820T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| 28.3 | TAWN2830T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| | TAWNH2830T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| 28.4 | TAWN2840T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| | TAWNH2840T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| 28.5 29.4 | 3 | TAWSN2900S32 | ● | 28.5 | TAWN2850T | ★ | <input type="checkbox"/> | 100.2 | 125.2 | 185.2 | 32 | WS508027T | TKY27T | WPT4405 | MK1KS |
| | | | | | TAWNH2850T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 28.6 | TAWN2860T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2860T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 28.7 | TAWN2870T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2870T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 28.8 | TAWN2880T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | TAWNH2880T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | 28.9 | TAWN2890T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH2890T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | 29.0 | TAWN2900T | ★ | <input type="checkbox"/> | 162.2 | 185.2 | 245.2 | 32 | WS508027T | TKY27T | WPT4405 | MK1KS | | | |
| | | TAWNH2900T | ● | <input type="checkbox"/> | | | | | | | | | | | |
| | 29.1 | TAWN2910T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH2910T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| 29.2 | TAWN2920T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| | TAWNH2920T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| 29.3 | TAWN2930T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| | TAWNH2930T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| 29.4 | TAWN2940T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| | TAWNH2940T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| 29.5 30.4 | 3 | TAWSN3000S32 | ● | 29.5 | TAWN2950T | ★ | <input type="checkbox"/> | 104.2 | 125.2 | 185.2 | 32 | WS508027T | TKY27T | WPT4405 | MK1KS |
| | | | | | TAWNH2950T | ● | <input type="checkbox"/> | | | | | | | | |
| | | | | 29.6 | TAWN2960T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2960T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 29.7 | TAWN2970T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | | TAWNH2970T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | | | 29.8 | TAWN2980T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | |
| | | TAWNH2980T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | 29.9 | TAWN2990T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH2990T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | 30.0 | TAWN3000T | ★ | <input type="checkbox"/> | 167.2 | 195.2 | 255.2 | 32 | WS508027T | TKY27T | WPT4405 | MK1KS | | | |
| | | TAWNH3000T | ● | <input type="checkbox"/> | | | | | | | | | | | |
| | 30.1 | TAWN3010T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| | | TAWNH3010T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| 30.2 | TAWN3020T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| | TAWNH3020T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| 30.3 | TAWN3030T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| | TAWNH3030T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| 30.4 | TAWN3040T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |
| | TAWNH3040T | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | |

■ Plaque Type U



| Référence embout monobloc | Stock | | Dimensions (mm) | | | Référence corps |
|---------------------------|--------|-------|-----------------|-----|-----|------------------|
| | VP15TF | VP10H | D1 | L2 | S1 | |
| TAWN1550T | ★ | □ | 15.5 | 7.9 | 6.0 | TAWSN 1600S20 |
| 1560T | ★ | □ | 15.6 | 7.9 | 6.0 | |
| 1570T | ★ | □ | 15.7 | 7.9 | 6.0 | |
| 1580T | ★ | □ | 15.8 | 7.9 | 6.0 | |
| 1590T | ★ | □ | 15.9 | 7.9 | 6.0 | |
| 1600T | ★ | □ | 16.0 | 7.8 | 6.0 | |
| 1610T | ★ | □ | 16.1 | 7.8 | 6.0 | |
| 1620T | ★ | □ | 16.2 | 7.8 | 6.0 | |
| 1630T | ★ | □ | 16.3 | 7.8 | 6.0 | |
| 1640T | ★ | □ | 16.4 | 7.8 | 6.0 | |
| 1650T | ★ | □ | 16.5 | 7.7 | 6.0 | TAWSN 1700S20 |
| 1660T | ★ | □ | 16.6 | 7.7 | 6.0 | |
| 1670T | ★ | □ | 16.7 | 7.7 | 6.0 | |
| 1680T | ★ | □ | 16.8 | 7.7 | 6.0 | |
| 1690T | ★ | □ | 16.9 | 7.7 | 6.0 | |
| 1700T | ★ | □ | 17.0 | 7.6 | 6.0 | |
| 1710T | ★ | □ | 17.1 | 7.6 | 6.0 | |
| 1720T | ★ | □ | 17.2 | 7.6 | 6.0 | |
| 1730T | ★ | □ | 17.3 | 7.6 | 6.0 | |
| 1740T | ★ | □ | 17.4 | 7.6 | 6.0 | |
| 1750T | ★ | □ | 17.5 | 7.5 | 6.0 | TAWSN 1800S20 |
| 1760T | ★ | □ | 17.6 | 7.5 | 6.0 | |
| 1770T | ★ | □ | 17.7 | 7.5 | 6.0 | |
| 1780T | ★ | □ | 17.8 | 7.5 | 6.0 | |
| 1790T | ★ | □ | 17.9 | 7.5 | 6.0 | |
| 1800T | ★ | □ | 18.0 | 7.4 | 6.0 | |
| 1810T | ★ | □ | 18.1 | 7.4 | 6.0 | |
| 1820T | ★ | □ | 18.2 | 7.4 | 6.0 | |
| 1830T | ★ | □ | 18.3 | 7.4 | 6.0 | |
| 1840T | ★ | □ | 18.4 | 7.4 | 6.0 | |
| 1850T | ★ | □ | 18.5 | 9.3 | 7.0 | TAWSN 1900S25 |
| 1860T | ★ | □ | 18.6 | 9.3 | 7.0 | |
| 1870T | ★ | □ | 18.7 | 9.3 | 7.0 | |
| 1880T | ★ | □ | 18.8 | 9.3 | 7.0 | |
| 1890T | ★ | □ | 18.9 | 9.3 | 7.0 | |
| 1900T | ★ | □ | 19.0 | 9.2 | 7.0 | |
| 1910T | ★ | □ | 19.1 | 9.2 | 7.0 | |
| 1920T | ★ | □ | 19.2 | 9.2 | 7.0 | |
| 1930T | ★ | □ | 19.3 | 9.2 | 7.0 | |
| 1940T | ★ | □ | 19.4 | 9.2 | 7.0 | |

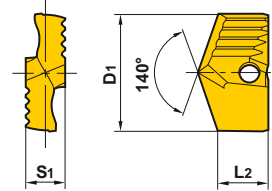
| Référence embout monobloc | Stock | | Dimensions (mm) | | | Référence corps |
|---------------------------|--------|-------|-----------------|------|-----|------------------|
| | VP15TF | VP10H | D1 | L2 | S1 | |
| TAWN1950T | ★ | □ | 19.5 | 9.1 | 7.0 | TAWSN 2000S25 |
| 1960T | ★ | □ | 19.6 | 9.1 | 7.0 | |
| 1970T | ★ | □ | 19.7 | 9.1 | 7.0 | |
| 1980T | ★ | □ | 19.8 | 9.1 | 7.0 | |
| 1990T | ★ | □ | 19.9 | 9.1 | 7.0 | |
| 2000T | ★ | □ | 20.0 | 9.0 | 7.0 | |
| 2010T | □ | □ | 20.1 | 9.0 | 7.0 | |
| 2020T | □ | □ | 20.2 | 9.0 | 7.0 | |
| 2030T | □ | □ | 20.3 | 9.0 | 7.0 | |
| 2040T | □ | □ | 20.4 | 9.0 | 7.0 | |
| 2050T | ★ | □ | 20.5 | 8.9 | 7.0 | TAWSN 2100S25 |
| 2060T | □ | □ | 20.6 | 8.9 | 7.0 | |
| 2070T | □ | □ | 20.7 | 8.9 | 7.0 | |
| 2080T | □ | □ | 20.8 | 8.9 | 7.0 | |
| 2090T | □ | □ | 20.9 | 8.9 | 7.0 | |
| 2100T | ★ | □ | 21.0 | 8.8 | 7.0 | |
| 2110T | □ | □ | 21.1 | 8.8 | 7.0 | |
| 2120T | □ | □ | 21.2 | 8.8 | 7.0 | |
| 2130T | □ | □ | 21.3 | 8.8 | 7.0 | |
| 2140T | □ | □ | 21.4 | 8.8 | 7.0 | |
| 2150T | ★ | □ | 21.5 | 10.3 | 8.0 | TAWSN 2200S25 |
| 2160T | □ | □ | 21.6 | 10.3 | 8.0 | |
| 2170T | □ | □ | 21.7 | 10.3 | 8.0 | |
| 2180T | □ | □ | 21.8 | 10.3 | 8.0 | |
| 2190T | □ | □ | 21.9 | 10.3 | 8.0 | |
| 2200T | ★ | □ | 22.0 | 10.2 | 8.0 | |
| 2210T | □ | □ | 22.1 | 10.2 | 8.0 | |
| 2220T | □ | □ | 22.2 | 10.2 | 8.0 | |
| 2230T | □ | □ | 22.3 | 10.2 | 8.0 | |
| 2240T | □ | □ | 22.4 | 10.2 | 8.0 | |
| 2250T | ★ | □ | 22.5 | 10.1 | 8.0 | TAWSN 2300S25 |
| 2260T | □ | □ | 22.6 | 10.1 | 8.0 | |
| 2270T | □ | □ | 22.7 | 10.1 | 8.0 | |
| 2280T | □ | □ | 22.8 | 10.1 | 8.0 | |
| 2290T | □ | □ | 22.9 | 10.1 | 8.0 | |
| 2300T | ★ | □ | 23.0 | 10.0 | 8.0 | |
| 2310T | □ | □ | 23.1 | 10.0 | 8.0 | |
| 2320T | □ | □ | 23.2 | 10.0 | 8.0 | |
| 2330T | □ | □ | 23.3 | 10.0 | 8.0 | |
| 2340T | □ | □ | 23.4 | 10.0 | 8.0 | |

| Référence embout monobloc | Stock | | Dimensions (mm) | | | Référence corps |
|---------------------------|--------------------------|--------------------------|-----------------|------|------|------------------|
| | VP15TF | VP10H | D1 | L2 | S1 | |
| TAWN2350T | ★ | <input type="checkbox"/> | 23.5 | 9.9 | 8.0 | TAWSN 2400S32 |
| 2360T | <input type="checkbox"/> | <input type="checkbox"/> | 23.6 | 9.9 | 8.0 | |
| 2370T | <input type="checkbox"/> | <input type="checkbox"/> | 23.7 | 9.9 | 8.0 | |
| 2380T | <input type="checkbox"/> | <input type="checkbox"/> | 23.8 | 9.9 | 8.0 | |
| 2390T | <input type="checkbox"/> | <input type="checkbox"/> | 23.9 | 9.9 | 8.0 | |
| 2400T | ★ | <input type="checkbox"/> | 24.0 | 9.8 | 8.0 | |
| 2410T | <input type="checkbox"/> | <input type="checkbox"/> | 24.1 | 9.8 | 8.0 | |
| 2420T | <input type="checkbox"/> | <input type="checkbox"/> | 24.2 | 9.8 | 8.0 | |
| 2430T | <input type="checkbox"/> | <input type="checkbox"/> | 24.3 | 9.8 | 8.0 | |
| 2440T | <input type="checkbox"/> | <input type="checkbox"/> | 24.4 | 9.8 | 8.0 | |
| 2450T | ★ | <input type="checkbox"/> | 24.5 | 11.1 | 9.0 | TAWSN 2500S32 |
| 2460T | <input type="checkbox"/> | <input type="checkbox"/> | 24.6 | 11.1 | 9.0 | |
| 2470T | <input type="checkbox"/> | <input type="checkbox"/> | 24.7 | 11.1 | 9.0 | |
| 2480T | <input type="checkbox"/> | <input type="checkbox"/> | 24.8 | 11.1 | 9.0 | |
| 2490T | <input type="checkbox"/> | <input type="checkbox"/> | 24.9 | 11.1 | 9.0 | |
| 2500T | ★ | <input type="checkbox"/> | 25.0 | 11.0 | 9.0 | |
| 2510T | <input type="checkbox"/> | <input type="checkbox"/> | 25.1 | 11.0 | 9.0 | |
| 2520T | <input type="checkbox"/> | <input type="checkbox"/> | 25.2 | 11.0 | 9.0 | |
| 2530T | <input type="checkbox"/> | <input type="checkbox"/> | 25.3 | 11.0 | 9.0 | |
| 2540T | <input type="checkbox"/> | <input type="checkbox"/> | 25.4 | 11.0 | 9.0 | |
| 2550T | ★ | <input type="checkbox"/> | 25.5 | 10.9 | 9.0 | TAWSN 2600S32 |
| 2560T | <input type="checkbox"/> | <input type="checkbox"/> | 25.6 | 10.9 | 9.0 | |
| 2570T | <input type="checkbox"/> | <input type="checkbox"/> | 25.7 | 10.9 | 9.0 | |
| 2580T | <input type="checkbox"/> | <input type="checkbox"/> | 25.8 | 10.9 | 9.0 | |
| 2590T | <input type="checkbox"/> | <input type="checkbox"/> | 25.9 | 10.9 | 9.0 | |
| 2600T | ★ | <input type="checkbox"/> | 26.0 | 10.8 | 9.0 | |
| 2610T | <input type="checkbox"/> | <input type="checkbox"/> | 26.1 | 10.8 | 9.0 | |
| 2620T | <input type="checkbox"/> | <input type="checkbox"/> | 26.2 | 10.8 | 9.0 | |
| 2630T | <input type="checkbox"/> | <input type="checkbox"/> | 26.3 | 10.8 | 9.0 | |
| 2640T | <input type="checkbox"/> | <input type="checkbox"/> | 26.4 | 10.8 | 9.0 | |
| 2650T | ★ | <input type="checkbox"/> | 26.5 | 10.7 | 9.0 | TAWSN 2700S32 |
| 2660T | <input type="checkbox"/> | <input type="checkbox"/> | 26.6 | 10.7 | 9.0 | |
| 2670T | <input type="checkbox"/> | <input type="checkbox"/> | 26.7 | 10.7 | 9.0 | |
| 2680T | <input type="checkbox"/> | <input type="checkbox"/> | 26.8 | 10.7 | 9.0 | |
| 2690T | <input type="checkbox"/> | <input type="checkbox"/> | 26.9 | 10.7 | 9.0 | |
| 2700T | ★ | <input type="checkbox"/> | 27.0 | 10.6 | 9.0 | |
| 2710T | <input type="checkbox"/> | <input type="checkbox"/> | 27.1 | 10.6 | 9.0 | |
| 2720T | <input type="checkbox"/> | <input type="checkbox"/> | 27.2 | 10.6 | 9.0 | |
| 2730T | <input type="checkbox"/> | <input type="checkbox"/> | 27.3 | 10.6 | 9.0 | |
| 2740T | <input type="checkbox"/> | <input type="checkbox"/> | 27.4 | 10.6 | 9.0 | |
| 2750T | ★ | <input type="checkbox"/> | 27.5 | 12.1 | 10.0 | TAWSN 2800S32 |
| 2760T | <input type="checkbox"/> | <input type="checkbox"/> | 27.6 | 12.1 | 10.0 | |
| 2770T | <input type="checkbox"/> | <input type="checkbox"/> | 27.7 | 12.1 | 10.0 | |
| 2780T | <input type="checkbox"/> | <input type="checkbox"/> | 27.8 | 12.1 | 10.0 | |
| 2790T | <input type="checkbox"/> | <input type="checkbox"/> | 27.9 | 12.1 | 10.0 | |
| 2800T | ★ | <input type="checkbox"/> | 28.0 | 12.0 | 10.0 | |
| 2810T | <input type="checkbox"/> | <input type="checkbox"/> | 28.1 | 12.0 | 10.0 | |
| 2820T | <input type="checkbox"/> | <input type="checkbox"/> | 28.2 | 12.0 | 10.0 | |
| 2830T | <input type="checkbox"/> | <input type="checkbox"/> | 28.3 | 12.0 | 10.0 | |
| 2840T | <input type="checkbox"/> | <input type="checkbox"/> | 28.4 | 12.0 | 10.0 | |

| Référence embout monobloc | Stock | | Dimensions (mm) | | | Référence corps |
|---------------------------|--------------------------|--------------------------|-----------------|------|------|------------------|
| | VP15TF | VP10H | D1 | L2 | S1 | |
| TAWN2850T | ★ | <input type="checkbox"/> | 28.5 | 11.9 | 10.0 | TAWSN 2900S32 |
| 2860T | <input type="checkbox"/> | <input type="checkbox"/> | 28.6 | 11.9 | 10.0 | |
| 2870T | <input type="checkbox"/> | <input type="checkbox"/> | 28.7 | 11.9 | 10.0 | |
| 2880T | <input type="checkbox"/> | <input type="checkbox"/> | 28.8 | 11.9 | 10.0 | |
| 2890T | <input type="checkbox"/> | <input type="checkbox"/> | 28.9 | 11.9 | 10.0 | |
| 2900T | ★ | <input type="checkbox"/> | 29.0 | 11.8 | 10.0 | |
| 2910T | <input type="checkbox"/> | <input type="checkbox"/> | 29.1 | 11.8 | 10.0 | |
| 2920T | <input type="checkbox"/> | <input type="checkbox"/> | 29.2 | 11.8 | 10.0 | |
| 2930T | <input type="checkbox"/> | <input type="checkbox"/> | 29.3 | 11.8 | 10.0 | |
| 2940T | <input type="checkbox"/> | <input type="checkbox"/> | 29.4 | 11.8 | 10.0 | |
| 2950T | ★ | <input type="checkbox"/> | 29.5 | 11.7 | 10.0 | TAWSN 3000S32 |
| 2960T | <input type="checkbox"/> | <input type="checkbox"/> | 29.6 | 11.7 | 10.0 | |
| 2970T | <input type="checkbox"/> | <input type="checkbox"/> | 29.7 | 11.7 | 10.0 | |
| 2980T | <input type="checkbox"/> | <input type="checkbox"/> | 29.8 | 11.7 | 10.0 | |
| 2990T | <input type="checkbox"/> | <input type="checkbox"/> | 29.9 | 11.7 | 10.0 | |
| 3000T | ★ | <input type="checkbox"/> | 30.0 | 11.6 | 10.0 | |
| 3010T | <input type="checkbox"/> | <input type="checkbox"/> | 30.1 | 11.6 | 10.0 | |
| 3020T | <input type="checkbox"/> | <input type="checkbox"/> | 30.2 | 11.6 | 10.0 | |
| 3030T | <input type="checkbox"/> | <input type="checkbox"/> | 30.3 | 11.6 | 10.0 | |
| 3040T | <input type="checkbox"/> | <input type="checkbox"/> | 30.4 | 11.6 | 10.0 | |

Plaquette type H

Nouveau



| Référence embout monobloc | Stock | | Dimensions (mm) | | | Référence corps |
|---------------------------|--------|-------|-----------------|-----|-----|-----------------|
| | VP15TF | VP10H | D1 | L2 | S1 | |
| TAWNH1400T | ● | □ | 14.0 | 7.6 | 5.0 | TAWSNH 1400S16 |
| 1410T | ● | □ | 14.1 | 7.6 | 5.0 | |
| 1420T | ● | □ | 14.2 | 7.6 | 5.0 | |
| 1430T | ● | □ | 14.3 | 7.6 | 5.0 | |
| 1440T | ● | □ | 14.4 | 7.6 | 5.0 | TAWMNH 1400S16 |
| 1450T | ● | □ | 14.5 | 7.5 | 5.0 | TAWSNH 1500S20 |
| 1460T | ● | □ | 14.6 | 7.5 | 5.0 | |
| 1470T | ● | □ | 14.7 | 7.5 | 5.0 | |
| 1480T | ● | □ | 14.8 | 7.5 | 5.0 | |
| 1490T | ● | □ | 14.9 | 7.5 | 5.0 | |
| 1500T | ● | □ | 15.0 | 7.4 | 5.0 | |
| 1510T | ● | □ | 15.1 | 7.4 | 5.0 | |
| 1520T | ● | □ | 15.2 | 7.4 | 5.0 | |
| 1530T | ● | □ | 15.3 | 7.4 | 5.0 | |
| 1540T | ● | □ | 15.4 | 7.4 | 5.0 | |
| 1550T | ● | □ | 15.5 | 7.9 | 6.0 | TAWSN 1600S20 |
| 1560T | ● | □ | 15.6 | 7.9 | 6.0 | |
| 1570T | ● | □ | 15.7 | 7.9 | 6.0 | |
| 1580T | ● | □ | 15.8 | 7.9 | 6.0 | |
| 1590T | ● | □ | 15.9 | 7.9 | 6.0 | |
| 1600T | ● | □ | 16.0 | 7.8 | 6.0 | |
| 1610T | ● | □ | 16.1 | 7.8 | 6.0 | |
| 1620T | ● | □ | 16.2 | 7.8 | 6.0 | |
| 1630T | ● | □ | 16.3 | 7.8 | 6.0 | |
| 1640T | ● | □ | 16.4 | 7.8 | 6.0 | |
| 1650T | ● | □ | 16.5 | 7.7 | 6.0 | TAWMN 1600S20 |
| 1660T | ● | □ | 16.6 | 7.7 | 6.0 | |
| 1670T | ● | □ | 16.7 | 7.7 | 6.0 | |
| 1680T | ● | □ | 16.8 | 7.7 | 6.0 | |
| 1690T | ● | □ | 16.9 | 7.7 | 6.0 | |
| 1700T | ● | □ | 17.0 | 7.6 | 6.0 | |
| 1710T | ● | □ | 17.1 | 7.6 | 6.0 | |
| 1720T | ● | □ | 17.2 | 7.6 | 6.0 | |
| 1730T | ● | □ | 17.3 | 7.6 | 6.0 | |
| 1740T | ● | □ | 17.4 | 7.6 | 6.0 | |
| 1750T | ● | □ | 17.5 | 7.5 | 6.0 | TAWSN 1700S20 |
| 1760T | ● | □ | 17.6 | 7.5 | 6.0 | |
| 1770T | ● | □ | 17.7 | 7.5 | 6.0 | |
| 1780T | ● | □ | 17.8 | 7.5 | 6.0 | |
| 1790T | ● | □ | 17.9 | 7.5 | 6.0 | |
| 1800T | ● | □ | 18.0 | 7.4 | 6.0 | |
| 1810T | ● | □ | 18.1 | 7.4 | 6.0 | |
| 1820T | ● | □ | 18.2 | 7.4 | 6.0 | |
| 1830T | ● | □ | 18.3 | 7.4 | 6.0 | |
| 1840T | ● | □ | 18.4 | 7.4 | 6.0 | |

| Référence embout monobloc | Stock | | Dimensions (mm) | | | Référence corps |
|---------------------------|--------|-------|-----------------|------|-----|-----------------|
| | VP15TF | VP10H | D1 | L2 | S1 | |
| TAWNH1850T | ● | □ | 18.5 | 9.3 | 7.0 | TAWSN 1900S25 |
| 1860T | ● | □ | 18.6 | 9.3 | 7.0 | |
| 1870T | ● | □ | 18.7 | 9.3 | 7.0 | |
| 1880T | ● | □ | 18.8 | 9.3 | 7.0 | |
| 1890T | ● | □ | 18.9 | 9.3 | 7.0 | |
| 1900T | ● | □ | 19.0 | 9.2 | 7.0 | |
| 1910T | ● | □ | 19.1 | 9.2 | 7.0 | |
| 1920T | ● | □ | 19.2 | 9.2 | 7.0 | |
| 1930T | ● | □ | 19.3 | 9.2 | 7.0 | |
| 1940T | ● | □ | 19.4 | 9.2 | 7.0 | |
| 1950T | ● | □ | 19.5 | 9.1 | 7.0 | TAWMN 1900S25 |
| 1960T | ● | □ | 19.6 | 9.1 | 7.0 | |
| 1970T | ● | □ | 19.7 | 9.1 | 7.0 | |
| 1980T | ● | □ | 19.8 | 9.1 | 7.0 | |
| 1990T | ● | □ | 19.9 | 9.1 | 7.0 | |
| 2000T | ● | □ | 20.0 | 9.0 | 7.0 | |
| 2010T | □ | □ | 20.1 | 9.0 | 7.0 | |
| 2020T | □ | □ | 20.2 | 9.0 | 7.0 | |
| 2030T | □ | □ | 20.3 | 9.0 | 7.0 | |
| 2040T | □ | □ | 20.4 | 9.0 | 7.0 | |
| 2050T | ● | □ | 20.5 | 8.9 | 7.0 | TAWSN 2000S25 |
| 2060T | □ | □ | 20.6 | 8.9 | 7.0 | |
| 2070T | □ | □ | 20.7 | 8.9 | 7.0 | |
| 2080T | □ | □ | 20.8 | 8.9 | 7.0 | |
| 2090T | □ | □ | 20.9 | 8.9 | 7.0 | |
| 2100T | ● | □ | 21.0 | 8.8 | 7.0 | |
| 2110T | □ | □ | 21.1 | 8.8 | 7.0 | |
| 2120T | □ | □ | 21.2 | 8.8 | 7.0 | |
| 2130T | □ | □ | 21.3 | 8.8 | 7.0 | |
| 2140T | □ | □ | 21.4 | 8.8 | 7.0 | |
| 2150T | ● | □ | 21.5 | 10.6 | 8.0 | TAWMN 2100S25 |
| 2160T | □ | □ | 21.6 | 10.6 | 8.0 | |
| 2170T | □ | □ | 21.7 | 10.6 | 8.0 | |
| 2180T | □ | □ | 21.8 | 10.6 | 8.0 | |
| 2190T | □ | □ | 21.9 | 10.6 | 8.0 | |
| 2200T | ● | □ | 22.0 | 10.5 | 8.0 | |
| 2210T | □ | □ | 22.1 | 10.5 | 8.0 | |
| 2220T | □ | □ | 22.2 | 10.5 | 8.0 | |
| 2230T | □ | □ | 22.3 | 10.5 | 8.0 | |
| 2240T | □ | □ | 22.4 | 10.5 | 8.0 | |
| 2250T | ● | □ | 22.5 | 10.4 | 8.0 | TAWSN 2200S25 |
| 2260T | □ | □ | 22.6 | 10.4 | 8.0 | |
| 2270T | □ | □ | 22.7 | 10.4 | 8.0 | |
| 2280T | □ | □ | 22.8 | 10.4 | 8.0 | |
| 2290T | □ | □ | 22.9 | 10.4 | 8.0 | |
| 2300T | □ | □ | 23.0 | 10.4 | 8.0 | |
| 2310T | □ | □ | 23.1 | 10.4 | 8.0 | |
| 2320T | □ | □ | 23.2 | 10.4 | 8.0 | |
| 2330T | □ | □ | 23.3 | 10.4 | 8.0 | |
| 2340T | □ | □ | 23.4 | 10.4 | 8.0 | |

| Référence embout monobloc | Stock | | Dimensions (mm) | | | Référence corps |
|---------------------------|--------|-------|-----------------|------|-----|------------------|
| | VP15TF | VP10H | D1 | L2 | S1 | |
| TAWNH2300T | ● | □ | 23.0 | 10.3 | 8.0 | TAWSN 2300S25 |
| 2310T | □ | □ | 23.1 | 10.3 | 8.0 | |
| 2320T | □ | □ | 23.2 | 10.3 | 8.0 | |
| 2330T | □ | □ | 23.3 | 10.3 | 8.0 | |
| 2340T | □ | □ | 23.4 | 10.3 | 8.0 | |
| 2350T | ● | □ | 23.5 | 10.2 | 8.0 | TAWSN 2400S32 |
| 2360T | □ | □ | 23.6 | 10.2 | 8.0 | |
| 2370T | □ | □ | 23.7 | 10.2 | 8.0 | |
| 2380T | □ | □ | 23.8 | 10.2 | 8.0 | |
| 2390T | □ | □ | 23.9 | 10.2 | 8.0 | |
| 2400T | ● | □ | 24.0 | 10.1 | 8.0 | |
| 2410T | □ | □ | 24.1 | 10.1 | 8.0 | |
| 2420T | □ | □ | 24.2 | 10.1 | 8.0 | |
| 2430T | □ | □ | 24.3 | 10.1 | 8.0 | |
| 2440T | □ | □ | 24.4 | 10.1 | 8.0 | |
| 2450T | ● | □ | 24.5 | 11.7 | 9.0 | TAWSN 2500S32 |
| 2460T | □ | □ | 24.6 | 11.7 | 9.0 | |
| 2470T | □ | □ | 24.7 | 11.7 | 9.0 | |
| 2480T | □ | □ | 24.8 | 11.7 | 9.0 | |
| 2490T | □ | □ | 24.9 | 11.7 | 9.0 | |
| 2500T | ● | □ | 25.0 | 11.6 | 9.0 | |
| 2510T | □ | □ | 25.1 | 11.6 | 9.0 | |
| 2520T | □ | □ | 25.2 | 11.6 | 9.0 | |
| 2530T | □ | □ | 25.3 | 11.6 | 9.0 | |
| 2540T | □ | □ | 25.4 | 11.6 | 9.0 | |
| 2550T | ● | □ | 25.5 | 11.5 | 9.0 | TAWSN 2600S32 |
| 2560T | □ | □ | 25.6 | 11.5 | 9.0 | |
| 2570T | □ | □ | 25.7 | 11.5 | 9.0 | |
| 2580T | □ | □ | 25.8 | 11.5 | 9.0 | |
| 2590T | □ | □ | 25.9 | 11.5 | 9.0 | |
| 2600T | ● | □ | 26.0 | 11.4 | 9.0 | |
| 2610T | □ | □ | 26.1 | 11.4 | 9.0 | |
| 2620T | □ | □ | 26.2 | 11.4 | 9.0 | |
| 2630T | □ | □ | 26.3 | 11.4 | 9.0 | |
| 2640T | □ | □ | 26.4 | 11.4 | 9.0 | |
| 2650T | ● | □ | 26.5 | 11.3 | 9.0 | TAWSN 2700S32 |
| 2660T | □ | □ | 26.6 | 11.3 | 9.0 | |
| 2670T | □ | □ | 26.7 | 11.3 | 9.0 | |
| 2680T | □ | □ | 26.8 | 11.3 | 9.0 | |
| 2690T | □ | □ | 26.9 | 11.3 | 9.0 | |
| 2700T | ● | □ | 27.0 | 11.2 | 9.0 | |
| 2710T | □ | □ | 27.1 | 11.2 | 9.0 | |
| 2720T | □ | □ | 27.2 | 11.2 | 9.0 | |
| 2730T | □ | □ | 27.3 | 11.2 | 9.0 | |
| 2740T | □ | □ | 27.4 | 11.2 | 9.0 | |

| Référence embout monobloc | Stock | | Dimensions (mm) | | | Référence corps |
|---------------------------|--------|-------|-----------------|------|------|------------------|
| | VP15TF | VP10H | D1 | L2 | S1 | |
| TAWNH2750T | ● | □ | 27.5 | 12.3 | 10.0 | TAWSN 2800S32 |
| 2760T | □ | □ | 27.6 | 12.3 | 10.0 | |
| 2770T | □ | □ | 27.7 | 12.3 | 10.0 | |
| 2780T | □ | □ | 27.8 | 12.3 | 10.0 | |
| 2790T | □ | □ | 27.9 | 12.3 | 10.0 | |
| 2800T | ● | □ | 28.0 | 12.2 | 10.0 | |
| 2810T | □ | □ | 28.1 | 12.2 | 10.0 | |
| 2820T | □ | □ | 28.2 | 12.2 | 10.0 | |
| 2830T | □ | □ | 28.3 | 12.2 | 10.0 | |
| 2840T | □ | □ | 28.4 | 12.2 | 10.0 | |
| 2850T | ● | □ | 28.5 | 12.1 | 10.0 | TAWSN 2900S32 |
| 2860T | □ | □ | 28.6 | 12.1 | 10.0 | |
| 2870T | □ | □ | 28.7 | 12.1 | 10.0 | |
| 2880T | □ | □ | 28.8 | 12.1 | 10.0 | |
| 2890T | □ | □ | 28.9 | 12.1 | 10.0 | |
| 2900T | ● | □ | 29.0 | 12.0 | 10.0 | |
| 2910T | □ | □ | 29.1 | 12.0 | 10.0 | |
| 2920T | □ | □ | 29.2 | 12.0 | 10.0 | |
| 2930T | □ | □ | 29.3 | 12.0 | 10.0 | |
| 2940T | □ | □ | 29.4 | 12.0 | 10.0 | |
| 2950T | ● | □ | 29.5 | 11.9 | 10.0 | TAWSN 3000S32 |
| 2960T | □ | □ | 29.6 | 11.9 | 10.0 | |
| 2970T | □ | □ | 29.7 | 11.9 | 10.0 | |
| 2980T | □ | □ | 29.8 | 11.9 | 10.0 | |
| 2990T | □ | □ | 29.9 | 11.9 | 10.0 | |
| 3000T | ● | □ | 30.0 | 11.8 | 10.0 | |
| 3010T | □ | □ | 30.1 | 11.8 | 10.0 | |
| 3020T | □ | □ | 30.2 | 11.8 | 10.0 | |
| 3030T | □ | □ | 30.3 | 11.8 | 10.0 | |
| 3040T | □ | □ | 30.4 | 11.8 | 10.0 | |

Conditions de coupe recommandées

| Matière | Diamètre foret Conditions Dureté | φ 14.0–φ 15.4 | | φ 15.5–φ 18.4 | | φ 18.5–φ 21.4 | |
|----------------------|---|-----------------------------|---------------------|-----------------------------|---------------------|-----------------------------|---------------------|
| | | Vitesse de coupe (m/min) | Avance (mm/tour) | Vitesse de coupe (m/min) | Avance (mm/tour) | Vitesse de coupe (m/min) | Avance (mm/tour) |
| P Acier doux | ≤ 180HB | 70 (60–90) | 0.20 (0.15–0.25) | 80 (60–100) | 0.25 (0.20–0.30) | 90 (70–110) | 0.25 (0.20–0.30) |
| | 180–280HB | 70 (60–90) | 0.20 (0.15–0.25) | 80 (60–100) | 0.25 (0.20–0.30) | 80 (60–100) | 0.25 (0.20–0.30) |
| | Acier carbone Acier allié 280–350HB | 60 (50–80) | 0.15 (0.12–0.18) | 70 (50–90) | 0.20 (0.15–0.25) | 70 (50–90) | 0.20 (0.15–0.25) |
| M Acier inox | ≤ 200HB | 50 (40–60) | 0.15 (0.12–0.18) | 50 (40–60) | 0.15 (0.12–0.18) | 60 (50–70) | 0.20 (0.15–0.22) |
| K Fonte grise | Résist. à la traction ≤ 350MPa | 70 (60–90) | 0.20 (0.15–0.25) | 80 (60–90) | 0.30 (0.20–0.35) | 90 (70–110) | 0.25 (0.20–0.35) |
| | Résist. à la traction ≤ 450MPa | 70 (50–90) | 0.20 (0.15–0.25) | 80 (60–90) | 0.25 (0.20–0.30) | 80 (60–90) | 0.25 (0.20–0.30) |

| Matière | Diamètre foret Conditions Dureté | φ 21.5–φ 24.4 | | φ 24.5–φ 27.4 | | φ 27.5–φ 30.4 | |
|----------------------|---|-----------------------------|---------------------|-----------------------------|---------------------|-----------------------------|---------------------|
| | | Vitesse de coupe (m/min) | Avance (mm/tour) | Vitesse de coupe (m/min) | Avance (mm/tour) | Vitesse de coupe (m/min) | Avance (mm/tour) |
| P Acier doux | ≤ 180HB | 100 (80–120) | 0.30 (0.25–0.35) | 110 (80–120) | 0.30 (0.25–0.35) | 110 (80–120) | 0.30 (0.25–0.35) |
| | 180–280HB | 90 (70–110) | 0.30 (0.25–0.35) | 100 (80–120) | 0.30 (0.25–0.35) | 100 (80–120) | 0.30 (0.25–0.35) |
| | Acier carbone Acier allié 280–350HB | 80 (60–100) | 0.25 (0.20–0.30) | 90 (70–110) | 0.25 (0.20–0.30) | 90 (70–110) | 0.25 (0.20–0.30) |
| M Acier inox | ≤ 200HB | 60 (50–70) | 0.20 (0.15–0.22) | 70 (60–80) | 0.25 (0.20–0.28) | 70 (60–80) | 0.25 (0.20–0.28) |
| K Fonte grise | Résist. à la traction ≤ 350MPa | 100 (80–110) | 0.35 (0.25–0.40) | 110 (90–120) | 0.35 (0.25–0.40) | 110 (90–120) | 0.40 (0.30–0.45) |
| | Résist. à la traction ≤ 450MPa | 90 (60–100) | 0.30 (0.25–0.35) | 100 (80–110) | 0.30 (0.25–0.35) | 100 (80–110) | 0.30 (0.25–0.35) |

Mode d'emploi

Installation embout monobloc

- Desserrer la vis de fixation pour installer l'embout monobloc.
- Ajuster correctement les canelures de l'embout monobloc et du corps du foret, puis faire coulisser l'embout jusqu'au fond du logement.
- Serrer la vis de fixation en tenant l'embout comme indiqué. (Figure 1)
- Vérifier qu'il n'existe aucun espace entre l'embout et le corps du foret. (Figure 2)

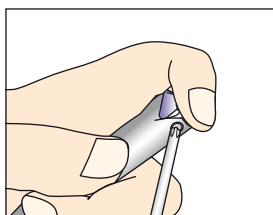


Fig. 1

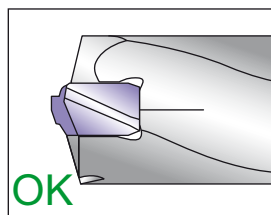
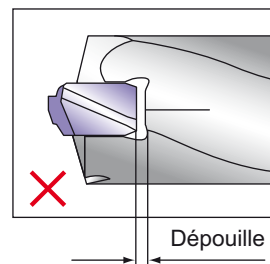


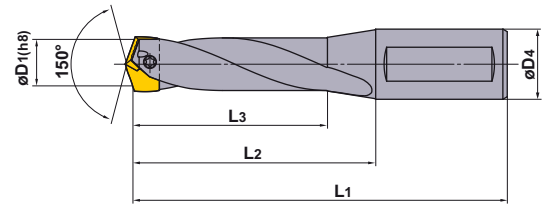
Fig. 2



Remplacement de l'embout monobloc

- Nettoyer complètement les canelures du corps du foret avant d'installer un nouvel embout. Enlever la saleté dans les canelures du corps en utilisant la plaque de nettoyage fournie.

(Pour le perçage de tôle empilée, acier pour la construction des ponts)



■ Outil


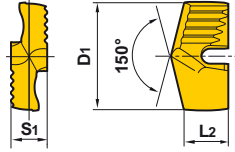

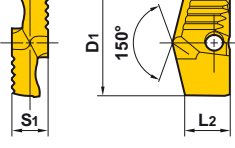
| Plage dia. foret D1 (mm) | Prof. trou (l/d) | Corps de foret | | Embout monobloc amovible | | | Dimensions (mm) | | | | Vis de fixation | Clé | Plaque | Lubrifiant anti-grippage |
|--------------------------|------------------|-----------------|-------|--------------------------|---------------------------|-------|-----------------|-------|-------|----|-----------------|--------|---------|--------------------------|
| | | Référence corps | Stock | Dia. foret D1 (mm) | Référence embout monobloc | Stock | L3 | L2 | L1 | D4 | | | | |
| 24.5 24.6 24.7 | 3 | TAWSB2500S32 | ● | 24.5 | TAWB2450T | ★ | 88.6 | 110.6 | 170.6 | 32 | WS406023T | TKY25T | WPT4405 | MK1KS |
| | | | | 24.6 | TAWBH2450T | ● | | | | | | | | |
| | 5 | TAWMB2500S32 | □ | 24.6 | TAWB2460T | □ | 140.6 | 165.6 | 225.6 | 32 | WS406023T | TKY25T | WPT4405 | MK1KS |
| | | | | 24.7 | TAWBH2460T | □ | | | | | | | | |
| 26.5 26.7 | 3 | TAWSB2700S32 | ● | 26.5 | TAWB2650T | □ | 94.6 | 115.6 | 175.6 | 32 | WS406024T | TKY25T | WPT4405 | MK1KS |
| | | | | 26.7 | TAWBH2650T | □ | | | | | | | | |
| | 5 | TAWMB2700S32 | □ | 26.5 | TAWB2670T | ★ | 151.6 | 175.6 | 235.6 | 32 | WS406024T | TKY25T | WPT4405 | MK1KS |
| | | | | 26.7 | TAWBH2670T | ● | | | | | | | | |

Nota : contactez-nous pour les géométries non prévues dans cette brochure.

(Ex. : différents diamètres, longueurs et forets avec arêtes de coupe chanfreinées peuvent être réalisés à la demande.)

● : Article standard stocké. ★ : Article standard Japon. □ : Article non standard - nous consulter.

■ Embout monobloc

| Forme | Référence embout monobloc | Stock | Dimensions (mm) | | | Référence corps | Largeur listel (mm) | Géométrie |
|---|---------------------------|-------|-----------------|------|-----|------------------------------|---------------------|---|
| | | | VP15TF | D1 | L2 | | | |
| Type U  | TAWB2450T | ★ | 24.5 | 11.1 | 9.0 | TAWSB2500S32 TAWMB2500S32 | 0.20-0.25 |  |
| | 2460T | □ | 24.6 | 11.1 | 9.0 | | | |
| | 2470T | ★ | 24.7 | 11.1 | 9.0 | | | |
| | 2650T | □ | 26.5 | 10.7 | 9.0 | | | |
| Type H  | TAWBH2450T | ● | 24.5 | 11.7 | 9.0 | TAWSB2500S32 TAWMB2500S32 | 0.20-0.25 |  |
| | 2460T | □ | 24.6 | 11.7 | 9.0 | | | |
| | 2470T | ● | 24.7 | 11.7 | 9.0 | | | |
| | 2650T | □ | 26.5 | 11.3 | 9.0 | | | |
| | 2670T | ● | 26.7 | 11.3 | 9.0 | TAWSB2700S32 TAWMB2700S32 | | |

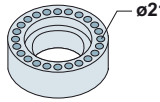
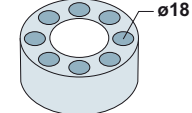
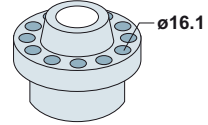
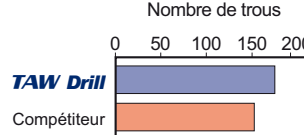
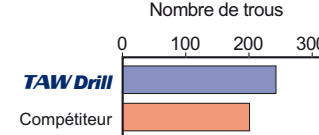
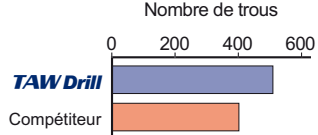
● : Article standard stocké. ★ : Article standard Japon. □ : Article non standard - nous consulter.

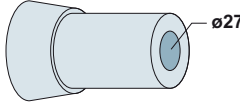
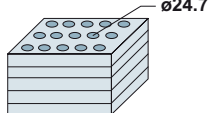
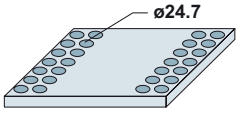
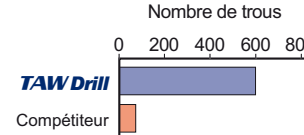
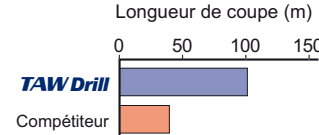
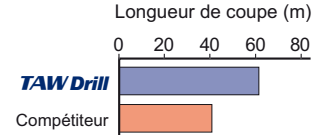
(Nota : 2 embouts par boîte)

Conditions de coupe recommandées

| Matière | Diamètres forets | | φ24.5, φ24.6, φ24.7 | | φ26.5, φ26.7 | |
|----------------------------|---|--|--------------------------|------------------|------------------|--------------------------|
| | Conditions | | Vitesse de coupe (m/min) | Avance (mm/tour) | Avance (mm/tour) | Vitesse de coupe (m/min) |
| P Acier de construction | Résist. à la traction ≤ 400-500 N/mm ² | | 70 (60-80) | 0.30 (0.25-0.35) | 70 (60-80) | 0.30 (0.25-0.35) |
| | Résist. à la traction ≤ 490-610 N/mm ² | | 65 (55-75) | 0.30 (0.25-0.35) | 65 (55-75) | 0.30 (0.25-0.35) |
| | Résist. à la traction ≤ 570-720 N/mm ² | | 60 (50-70) | 0.30 (0.25-0.35) | 60 (50-70) | 0.30 (0.25-0.35) |

Exemples d'applications

| Outil | TAWMN2100S25 | TAWMN1800S20 | TAWSN1600S20 | |
|--------------------------|--|---|--|------|
| Embout monobloc (nuance) | TAWN2100T (VP15TF) | TAWN1800T (VP15TF) | TAWN1610T (VP15TF) | |
| Matière | ISO 34 CrMo4  | ISO C45 (200HB)  | DIN StE 285  | |
| Pièce à usiner | Bague | Bague dentée | Parties de la machine | |
| Conditions de coupe | Vitesse de coupe (m/min) | 55 | 70 | 80 |
| | Avance (mm/tour) | 0.2 | 0.3 | 0.3 |
| | Régime (min ⁻¹) | 833 | 1238 | 1582 |
| | Avance (mm/min) | 167 | 371 | 475 |
| Arrosage | Huile soluble (Arrosage intérieur) | Huile soluble (Arrosage intérieur) | Huile soluble (Arrosage intérieur) | |
| Type de machine | Centre d'usinage | Centre d'usinage | Centre d'usinage | |
| Résultat | Nombre de trous  | Nombre de trous  | Nombre de trous  | |

| Outil | TAWSN2700S32 | TAWSB2500S32 | TAWSB2500S32 | |
|--------------------------|--|---|--|-----|
| Embout monobloc (nuance) | TAWN2700T (VP15TF) | TAWB2470T (VP15TF) | TAWB2470T (VP15TF) | |
| Matière | ISO 18 CrMo4  | BS S335 JR (Panneaux laminés)  | BS S335 JR  | |
| Pièce à usiner | Tube | Acier pour ponts | Acier pour ponts | |
| Conditions de coupe | Vitesse de coupe (m/min) | 80 | 77 | 60 |
| | Avance (mm/tour) | 0.3 | 0.3 | 0.3 |
| | Régime (min ⁻¹) | 943 | 992 | 773 |
| | Avance (mm/tour) | 283 | 298 | 232 |
| Arrosage | Huile soluble (Arrosage intérieur) | Arrosage pulvérisé | Arrosage pulvérisé | |
| Type de machine | Tour à CN | Machine Gundrill | Machine Gundrill | |
| Résultat | Nombre de trous  | Longueur de coupe (m)  | Longueur de coupe (m)  | |