

ACIER INOX



Profondeur de taraudage en $3 \times D_1$

Lubrification avec émulsion

h6 Tap shank



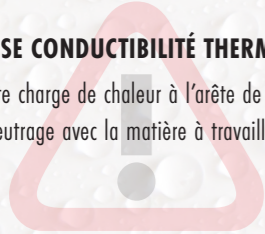
THREADING
TECHNOLOGY

LA SOLUTION

TARAUDER DES ACIERS INOXYDABLES

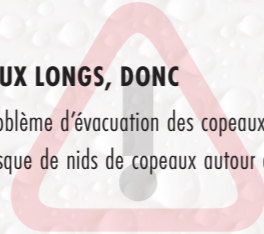
MAUVAISE CONDUCTIBILITÉ THERMIQUE, DONC

- Haute charge de chaleur à l'arête de coupe
- Calfeutrage avec la matière à travailler (soudures froides)



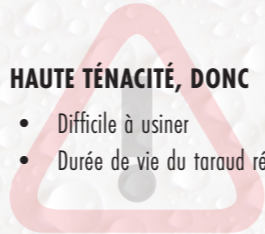
COPEAUX LONGS, DONC

- Problème d'évacuation des copeaux dans des trous borgnes profonds
- Risque de nids de copeaux autour de la queue de l'outil

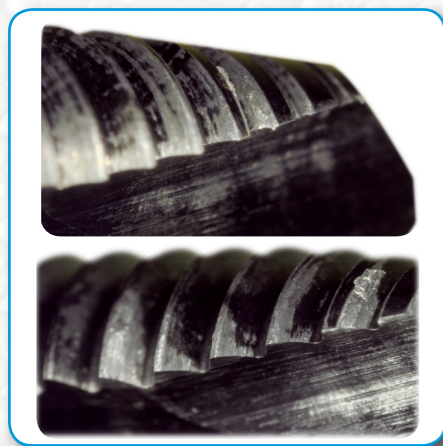


HAUTE TÉNACITÉ, DONC

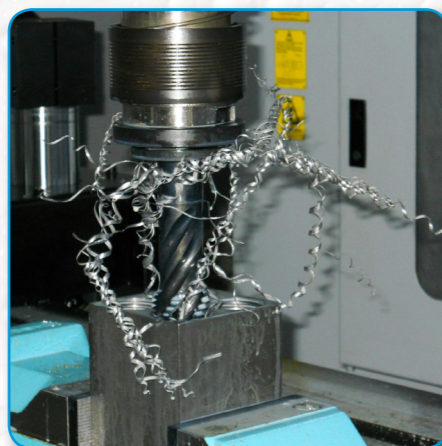
- Difficile à usiner
- Durée de vie du taraud réduite



LA CONSÉQUENCE



SOUDURES FROIDES



NIDS DE COPEAUX



CLIENT MÉCONTENT

LA SOLUTION

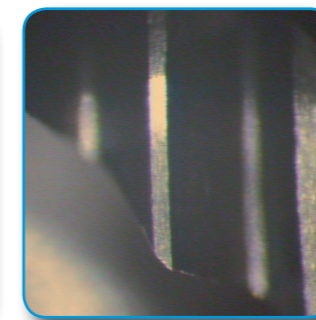


ZINOX



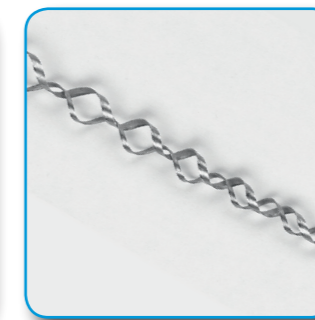
PROPRIÉTÉS

Taraud HSSE-PM avec ou sans lubrification intérieure, goujures hélicoïdales R45 pour trous borgnes jusqu'à $3 \times D_1$ dans aciers inoxydables et aciers alliés ayant un fort coefficient d'allongement, jusqu'à $1'150 \text{ N/mm}^2$.



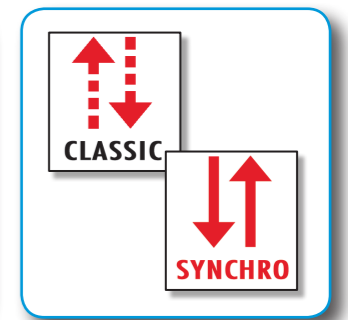
EMULSION BIENVENUE

Le revêtement de surface VS offre une protection contre l'usure et les soudures froides. Grâce à un coefficient de glissement élevé, il facilite l'évacuation des copeaux et réduit le couple.



SÉCURITÉ DE PROCESSUS JUSQU'À $3 \times D_1$

La géométrie de coupe et la forme des goujures R45 génèrent des copeaux compacts et réguliers. Elles garantissent ainsi une sécurité de processus.



A VOUS DE CHOISIR

La géométrie de coupe est adaptée au taraudage classique avec broche à compensation, ainsi qu'au taraudage rigide (queue h6 pour frettage).

TABELLE D'UTILISATION

Utilisation

- Optimale avec huile de coupe
- Fonctionnelle avec huile de coupe
- Optimale avec émulsion
- Fonctionnelle avec émulsion



Classification des matières

Groupes de matières	Designation des matières	Dureté (HB)	Résistance Rm (N/mm²)	Allongement A (%)	Z. 70VS	Z. 73VS	Z. 20VS	Vc (m/min)
10 Aciers	11 Aciers de décolletage	< 200	< 700	< 10				
	12 Aciers de construction / cémentation	< 200	< 700	< 30				
	13 Aciers au carbone	< 300	< 1000	< 20				
	14 Aciers alliés <850 N/mm²	< 250	< 850	< 30				
	15 Aciers alliés / traités >850 - <1150 N/mm²	> 250	> 850	< 30				6 - 12
	16 Aciers haute résistance	> 250	> 850	< 12				
20 Aciers inoxydables	21 Aciers inoxydables / soufrés	< 250	< 850	< 25				20 - 30
	22 Austénitiques	< 250	< 850	> 20				6 - 12
	23 Ferritiques et martensitiques <850 N/mm²	< 250	< 850	> 20				6 - 12
	24 Ferritiques et martens. >850 - <1150 N/mm²	> 250	> 850	> 15				4 - 8
30 Fonte	31 Fonte grise	< 250	< 850	< 10				
	32 Fonte à graphite sphéroïdale et malléable	< 250	< 850	> 10				
40 Titane	41 Titane pur	< 250	< 850	> 20				
	42 Alliage au titane	> 250	> 850	< 20				
50 Nickel	51 Alliage au Nickel 1 <850 N/mm²	< 250	< 850	> 25				6 - 12
	52 Alliage au Nickel 2 >850 - <1150 N/mm²	> 250	> 850	< 25				4 - 8
	53 Alliage au Nickel 3 >1150 - ≤1600 N/mm²	> 340	> 1150	< 20				
60 Cuivre	61 Cuivre pur (électrolytique)	< 120	< 400	> 12				12 - 16
	62 Laiton, bronze (copeaux courts)	< 200	< 700	< 12				
	63 Laiton (copeaux longs)	< 200	< 700	> 12				
70 Aluminium Magnésium	71 Al non allié	< 100	< 350	> 15				
	72 Al allié Si < 1.5 %	< 150	< 500	> 15				
	73 Al allié Si > 1.5 % - < 10 %	< 120	< 400	< 15				
	74 Al allié Si > 10 %, Alliages Magnésium	< 120	< 400	< 10				

Référence: DIN

15 Aciers alliés / traités > 850 - < 1150 N/mm² 1.3553 X82WCrV6-5-4 1.6580 30CrNiMo8 1.7220 34CrMo4 1.7225 42CrMo4 1.8507 34CrAlMo5	21 Aciers inoxydables, soufrés 1.4005 X12CrS13 1.4104 X14CrMoS17 1.4305 X10CrNiS18-9	22 Austénitiques 1.4301 X5CrNi18-10 1.4406 X2CrNiMoN17-12-2 1.4435 X2CrNiMo18-14-3 1.4541 X6CrNiTi18-10 1.4571 X6CrNiMoTi17-12-2	23 Ferritiques et martens. < 850 N/mm² 1.4112 X90CrMoV18 1.4540 X4CrNiCuNb16-4 1.4582 X4CrNiMoNb25-7 1.4762 X10CrAl24 1.4922 X20CrMo11-1
24 Ferritiques et martens. > 850 - < 1150 N/mm² 1.4057 X17CrNi17-2 1.4125 X105CrMo17 1.4542 X5CrNiCuNb16-4 1.4548 X5CrNiCuNb17-4-4 1.4748 X85CrMoV18-2	51 Alliage au Nickel 1 < 850 N/mm² 1.3912 Ni36 (Invar) 2.4360 NiCu30Fe (Monel 400) 2.4816 NiCr15Fe (Inconel 600) 1.4876 X10NiCrAlTi32-20	52 Alliage au Nickel 2 > 850 - < 1150 N/mm² 2.4375 NiCu30Al (MonelK500) 2.4631 NiCr20TiAl (Nimonic 80) 2.4668 NiCr19NbMo (Inconel718)	61 Cuivre pur (électrolytique) 2.0060 E-Cu57 (E-Cu)

Référence: AISI/ASTM

15 Aciers alliés / traités > 850 - < 1150 N/mm² 1.3553 - 1.6580 4340 1.7220 4135 1.7225 4140 1.8507 A355CLD (K23510)	21 Aciers inoxydables soufrés 1.4005 416 1.4104 430F 1.4305 303	22 Austénitiques 1.4301 304 1.4406 316LN 1.4435 316L 1.4541 321 1.4571 316Ti	23 Ferritiques et martens. < 850 N/mm² 1.4112 440B 1.4540 XM12 (15-5PH) 1.4582 - 1.4762 446 1.4821 4922
24 Ferritiques et martens. > 850 - < 1150 N/mm² 1.4057 431 1.4125 440C 1.4542 630 (17-4PH) 1.4748 -	51 Alliage au Nickel 1 < 850 N/mm² 1.3912 K93600 2.4360 N04400 1.4816 N08800	52 Alliage au Nickel 2 > 850 - < 1150 N/mm² 2.4375 N05500 (B865) 2.4631 N07080 (B637) 2.4668 N07718 (B637)	61 Cuivre pur (électrolytique) 2.0060 C11000

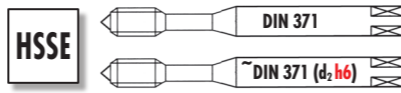
Pictogrammes

HSSE-PM
 Protection contre l'usure

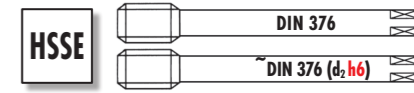
Goujures hélicoïdales, hélice à 45° à droite
 2 - 3 filets d'entrée, forme C

Classe de tolérance 6HX
 Trou borgne < 3 x D, copeaux longs

Pour taraudage classique
 Pour taraudage synchrone

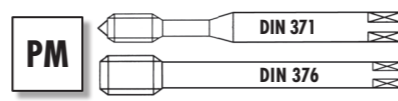


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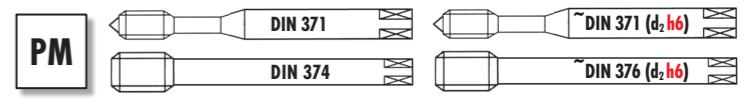
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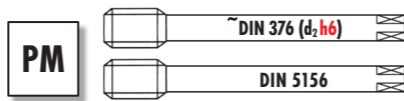
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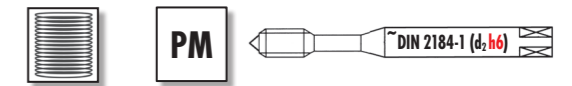


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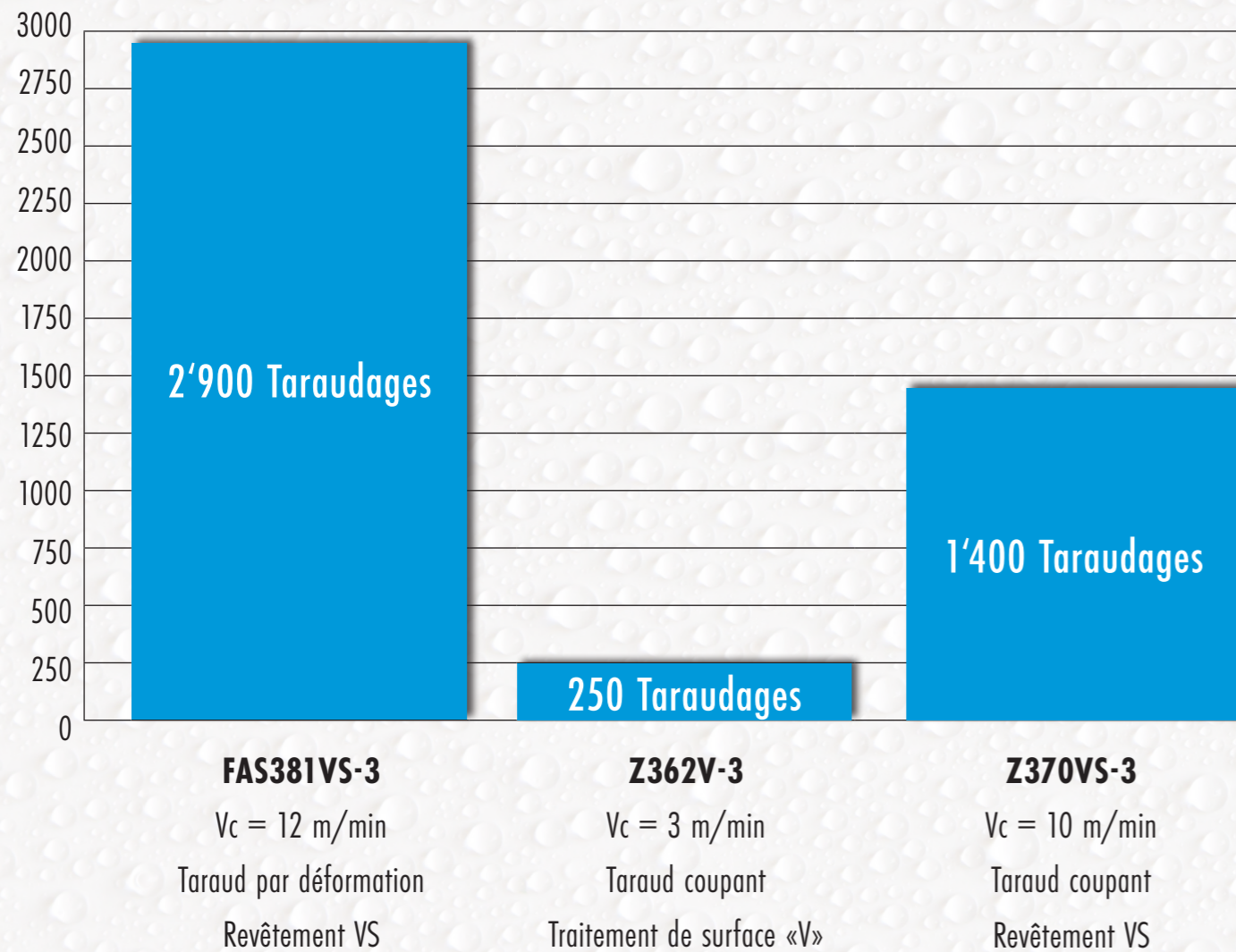
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<table border="1"> <thead> <tr> <th>\varnothing° d₁</th> <th>P</th> <th>d₁</th> <th>l₁</th> <th>l₂</th> <th>l₃</th> <th>d₂ h₆</th> <th>a</th> <th colspan="2"> </th> <th>ID</th> </tr> <tr> <th>EG UNF</th> <th>TPI</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>10</td><td>32</td><td>5.85</td><td>80</td><td>11.0</td><td>30</td><td>6.0</td><td>4.9</td><td>3</td><td>5.10</td><td>165129</td></tr> <tr><td>1/4</td><td>28</td><td>7.52</td><td>90</td><td>12.5</td><td>35</td><td>8.0</td><td>6.2</td><td>3</td><td>6.65</td><td>165130</td></tr> <tr><td>5/16</td><td>24</td><td>9.31</td><td>90</td><td>12.5</td><td>35</td><td>*8.0</td><td>*6.2</td><td>3</td><td>8.20</td><td>165131</td></tr> </tbody> </table>										\varnothing° d ₁	P	d ₁	l ₁	l ₂	l ₃	d ₂ h ₆	a			ID	EG UNF	TPI	mm	mm	mm	mm	mm	mm				10	32	5.85	80	11.0	30	6.0	4.9	3	5.10	165129	1/4	28	7.52	90	12.5	35	8.0	6.2	3	6.65	165130	5/16	24	9.31	90	12.5	35	*8.0	*6.2	3	8.20	165131				
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APPLICATION 1

Matière: Acier austénitique
 DIN: 1.4301/ AISI 304
 Résistance à la traction: 500 - 700 N/mm²
 Trou borgne: M10 6H
 Prof. à tarauder: 20 mm

Méthode de travail: Taraud. synchrone
 Lubrifiant: Huile de coupe

**AVEC
 HUILE DE COUPE**

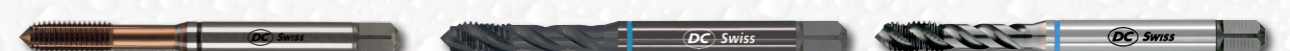
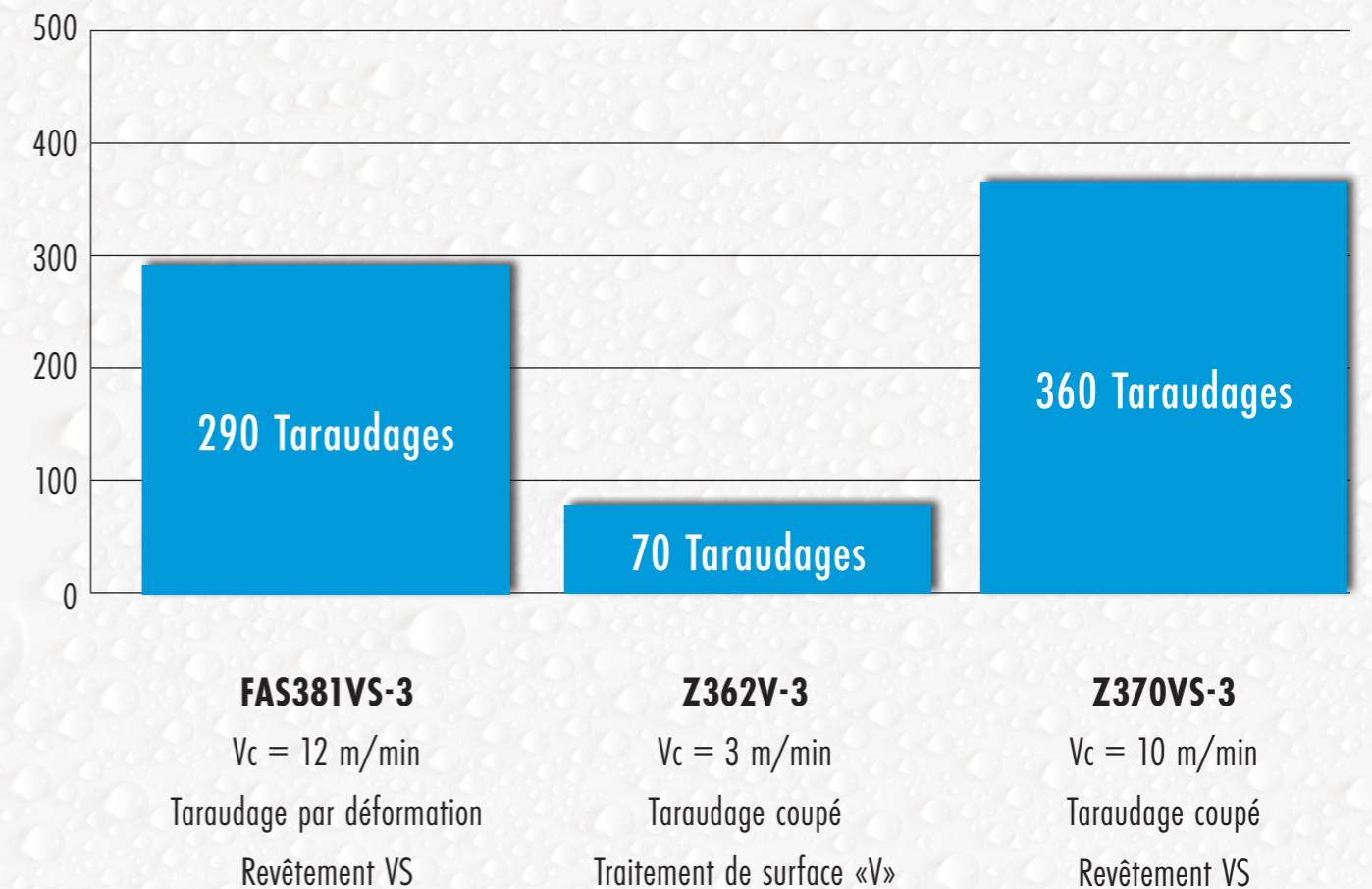


APPLICATION 2

Matière: Acier Austénitique
 DIN: 1.4301/ AISI 304
 Résistance à la traction: 500 - 700 N/mm²
 Trou borgne: M10 6H
 Prof. à tarauder: 20 mm

Méthode de travail: Taraud. synchrone
 Lubrifiant: Émulsion 8 - 10%

**AVEC
 ÉMULSION**





« LE FILETAGE EST SOUVENT LA DERNIÈRE OPÉRATION SUR UNE PIÈCE. LA SÉCURITÉ DU PROCESSUS EST DONC OBLIGATOIRE. DC SWISS VOUS OFFRE LA FIABILITÉ REQUISE, MÊME DANS LES MATÉRIAUX DURS. »

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TECHNOLOGY**

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