



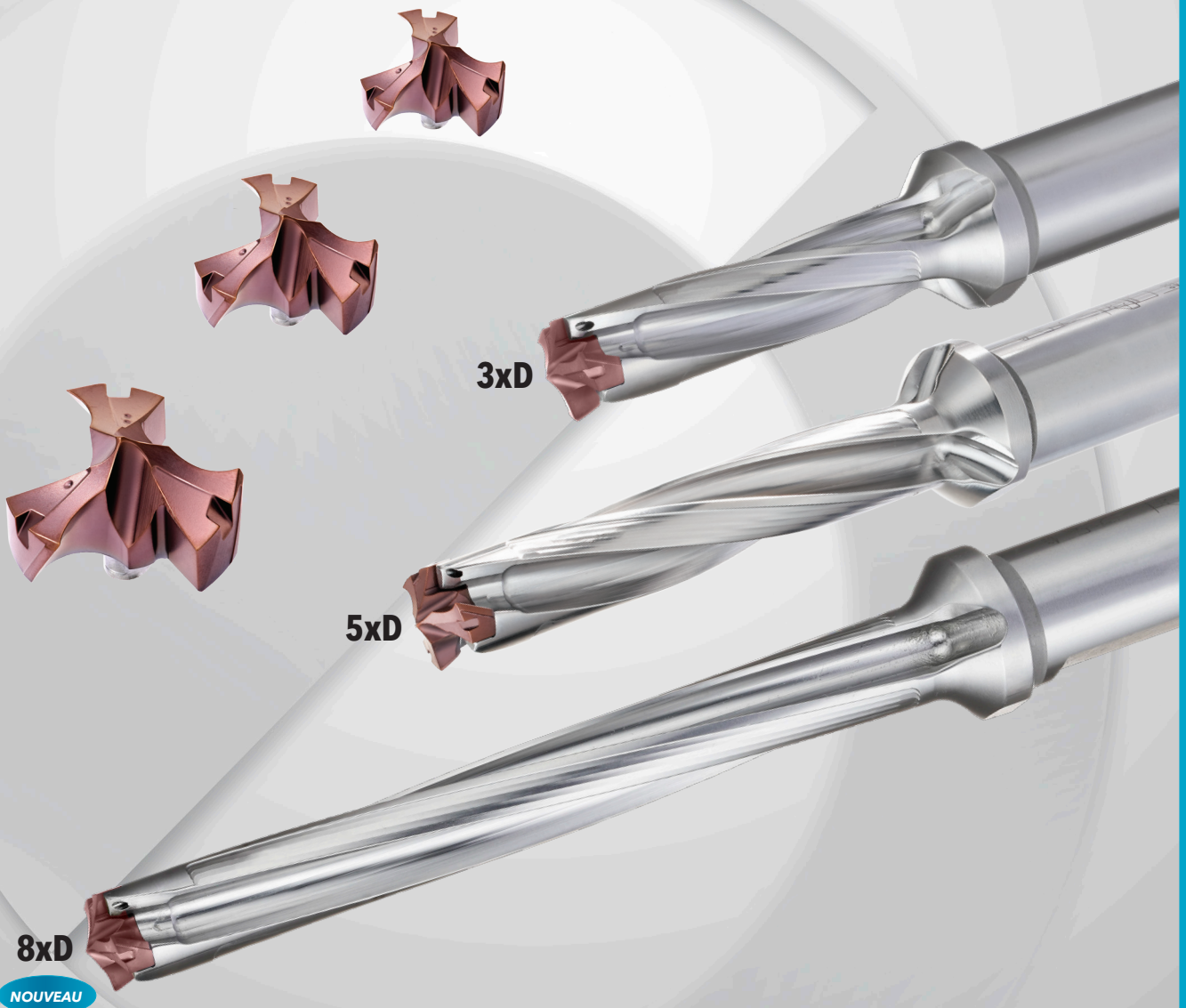
WINSFEED

TWISTSFEED

FORETS 8XD ET EMBOUTS
POUR LE PERÇAGE DE TROUS PROFONDS

FORETS 8XD POUR LE PERÇAGE DE TROUS PROFONDS ET EMBOUT INTERCHANGEABLE

- Plage de diamètres d'embout de foret étendue 12,0 à 25,5 mm •
- 3 goujures pour améliorer la productivité •
- Autocentrage pour garantir la précision des trous à tolérance élevée •
- Les forets à embouts interchangeables réduisent les temps d'arrêt des machines •



Présentation du produit

Ingersoll a considérablement élargi la plage de diamètres de sa gamme de forets 3 lèbres à embouts interchangeables **TwistSFeed** avec l'introduction d'un nouveau porte-outils offrant une profondeur de perçage de 8xD.

La gamme **TwistSFeed** de forets 3 lèbres, qui améliorent la productivité, peut être utilisée pour diverses applications grâce à un diamètre et à des profondeurs de perçage plus larges.

La plage de diamètres de perçage a été étendue de 15,0-20,9 mm à **12,0-25,5 mm**, et une version **8xD** est proposée pour le perçage de trous profonds, pour obtenir la même précision de trou à tolérance élevée à différentes profondeurs de perçage.

| Embouts (FPC) | Porte-outils (FD) |
|---|---|
| <p>NOUVEAU</p> <p>NOUVEAU</p> <p>NOUVEAU</p> <p>Ø12.0 - Ø14.9 Ø15.0 - Ø20.9 Ø21.0 - Ø25.5</p> <p>par incréments de 0,1 mm par incréments de 0,5 mm</p> | <p>3xD</p> <p>5xD</p> <p>NOUVEAU</p> <p>8xD</p> |

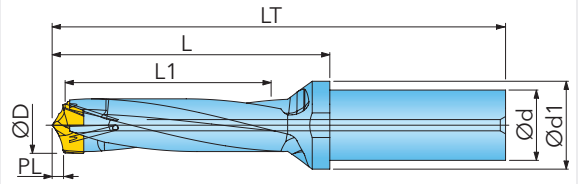
Caractéristiques techniques et avantages

- Plage de diamètres d'embout de foret étendue 12,0-25,5 mm
 - 12,0 - 20,9 mm : par incréments de 0,1 mm
 - 21,0 - 25,5 mm : par incréments de 0,5 mm
- Gamme élargie à 8xD en complément des porte-outils 3xD et 5xD actuels
- 3 lèbres pour améliorer la productivité
- Autocentrage pour garantir la précision des trous à tolérance élevée
- Les forets à embouts interchangeables réduisent les temps d'arrêt des machines



TWIST SPEED FORET À EMBOUTS INTERCHANGEABLES 3D Ø12,0-Ø25,9 Z= 3 (A)

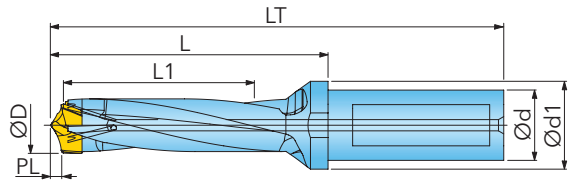
MONTAGE D'APRÈS LA NORME DIN 1835 A



| Désignation | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Bs | clé | IK | kg |
|----------------|------|--------|--------|----|----|-------|-------|------|------|---|----|----------|----|-------|
| FD1200036T3R00 | 12 | 12,0 | 12,4 | 16 | 20 | 108,7 | 60,7 | 40,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,175 |
| FD1250038T3R00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 110,5 | 62,5 | 41,5 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,165 |
| FD1300039T3R00 | 13 | 13,0 | 13,4 | 16 | 20 | 112,8 | 64,8 | 43,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,170 |
| FD1350041T3R00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 114,6 | 66,6 | 44,5 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,175 |
| FD1400042T3R00 | 14 | 14,0 | 14,4 | 16 | 20 | 116,9 | 68,9 | 46,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,018 |
| FD1450044T3R00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 118,7 | 70,7 | 47,5 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,175 |
| FD1500045T4R00 | 15 | 15,0 | 15,9 | 20 | 25 | 123,9 | 73,9 | 49,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,170 |
| FD1600048T4R00 | 16 | 16,0 | 16,9 | 20 | 25 | 129,0 | 79,0 | 52,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,250 |
| FD1700051T4R00 | 17 | 17,0 | 17,9 | 20 | 25 | 134,0 | 84,0 | 55,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,265 |
| FD1800054T5R00 | 18 | 18,0 | 18,9 | 25 | 32 | 146,1 | 90,1 | 58,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,385 |
| FD1900057T5R00 | 19 | 19,0 | 19,9 | 25 | 32 | 150,7 | 94,7 | 61,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,400 |
| FD2000060T5R00 | 20 | 20,0 | 20,9 | 25 | 32 | 155,3 | 99,3 | 64,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,430 |
| FD2100063T5R00 | 21 | 21,0 | 21,9 | 25 | 32 | 159,8 | 103,8 | 67,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,455 |
| FD2200066T5R00 | 22 | 22,0 | 22,9 | 25 | 32 | 164,4 | 108,4 | 70,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,440 |
| FD2300069U7R00 | 23 | 23,0 | 23,9 | 32 | 42 | 172,8 | 112,8 | 73,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,710 |
| FD2400072U7R00 | 24 | 24,0 | 24,9 | 32 | 42 | 177,4 | 117,4 | 76,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,695 |
| FD2500075U7R00 | 25 | 25,0 | 25,9 | 32 | 42 | 182,0 | 122,0 | 79,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 0,750 |

TWIST SPEED FORET À EMBOUTS INTERCHANGEABLES 3D Ø12,0-Ø25,9 Z= 3 (B)

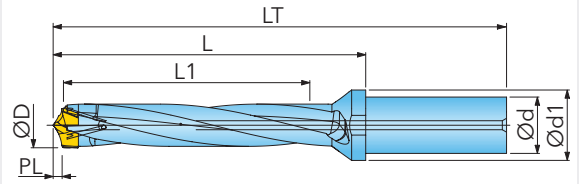
MONTAGE D'APRÈS LA NORME DIN 1835 B



| Désignation | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Bs | clé | | |
|----------------|------|--------|--------|----|----|-------|-------|------|------|---|----|----------|---|-------|
| FD1200036JDR00 | 12 | 12,0 | 12,4 | 16 | 20 | 108,7 | 60,7 | 40,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,165 |
| FD1250038JDR00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 110,5 | 62,5 | 41,5 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,165 |
| FD1300039JDR00 | 13 | 13,0 | 13,4 | 16 | 20 | 112,8 | 64,8 | 43,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,170 |
| FD1350041JDR00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 114,6 | 66,6 | 44,5 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,170 |
| FD1400042JDR00 | 14 | 14,0 | 14,4 | 16 | 20 | 116,9 | 68,9 | 46,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,170 |
| FD1450044JDR00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 118,7 | 70,7 | 47,5 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,175 |
| FD1500045JER00 | 15 | 15,0 | 15,9 | 20 | 25 | 123,9 | 73,9 | 49,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,210 |
| FD1600048JER00 | 16 | 16,0 | 16,9 | 20 | 25 | 129,0 | 79,0 | 52,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,250 |
| FD1700051JER00 | 17 | 17,0 | 17,9 | 20 | 25 | 134,0 | 84,0 | 55,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,260 |
| FD1800054JFR00 | 18 | 18,0 | 18,9 | 25 | 32 | 146,1 | 90,1 | 58,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,380 |
| FD1900057JFR00 | 19 | 19,0 | 19,9 | 25 | 32 | 150,7 | 94,7 | 61,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,390 |
| FD2000060JFR00 | 20 | 20,0 | 20,9 | 25 | 32 | 155,3 | 99,3 | 64,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,420 |
| FD2100063JFR00 | 21 | 21,0 | 21,9 | 25 | 32 | 159,8 | 103,8 | 67,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,385 |
| FD2200066JFR00 | 22 | 22,0 | 22,9 | 25 | 32 | 164,4 | 108,4 | 70,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,450 |
| FD2300069JGR00 | 23 | 23,0 | 23,9 | 32 | 42 | 172,8 | 112,8 | 73,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,540 |
| FD2400072JGR00 | 24 | 24,0 | 24,9 | 32 | 42 | 177,4 | 117,4 | 76,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,675 |
| FD2500075JGR00 | 25 | 25,0 | 25,9 | 32 | 42 | 182,0 | 122,0 | 79,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 0,710 |

TWIST SPEED FORET À EMBOUTS INTERCHANGEABLES 5D Ø12,0-Ø25,9 Z= 3 (A)

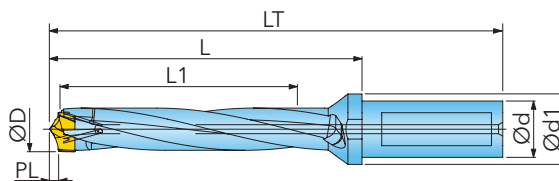
MONTAGE D'APRÈS LA NORME DIN 1835 A



| Désignation | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Bs | clé | IK | kg |
|----------------|------|--------|--------|----|----|-------|-------|-------|------|---|----|----------|----|-------|
| FD1200060T3R00 | 12 | 12,0 | 12,4 | 16 | 20 | 132,7 | 84,7 | 64,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,140 |
| FD1250063T3R00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 135,5 | 87,5 | 66,5 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,165 |
| FD1300065T3R00 | 13 | 13,0 | 13,4 | 16 | 20 | 138,8 | 90,8 | 69,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,180 |
| FD1350068T3R00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 141,6 | 93,6 | 71,5 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,185 |
| FD1400070T3R00 | 14 | 14,0 | 14,4 | 16 | 20 | 144,9 | 96,9 | 74,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,155 |
| FD1450073T3R00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 147,7 | 99,7 | 76,5 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,195 |
| FD1500075T4R00 | 15 | 15,0 | 15,9 | 20 | 25 | 153,9 | 103,9 | 79,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,260 |
| FD1600080T4R00 | 16 | 16,0 | 16,9 | 20 | 25 | 161,0 | 111,0 | 84,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,350 |
| FD1700085T4R00 | 17 | 17,0 | 17,9 | 20 | 25 | 168,0 | 118,0 | 89,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,290 |
| FD1800090T5R00 | 18 | 18,0 | 18,9 | 25 | 32 | 182,1 | 126,1 | 94,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,410 |
| FD1900095T5R00 | 19 | 19,0 | 19,9 | 25 | 32 | 188,7 | 132,7 | 99,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,435 |
| FD2000100T5R00 | 20 | 20,0 | 20,9 | 25 | 32 | 195,3 | 139,3 | 104,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,415 |
| FD2100105T5R00 | 21 | 21,0 | 21,9 | 25 | 32 | 201,8 | 145,8 | 109,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,505 |
| FD2200110T5R00 | 22 | 22,0 | 22,9 | 25 | 32 | 208,4 | 152,4 | 114,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,475 |
| FD2300115U7R00 | 23 | 23,0 | 23,9 | 32 | 42 | 218,8 | 158,8 | 119,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,750 |
| FD2400120U7R00 | 24 | 24,0 | 24,9 | 32 | 42 | 225,4 | 165,4 | 124,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,795 |
| FD2500125U7R00 | 25 | 25,0 | 25,9 | 32 | 42 | 232,0 | 172,0 | 129,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 0,780 |

TWIST SPEED FORET À EMBOUTS INTERCHANGEABLES 5D Ø12,0-Ø25,9 Z= 3 (B)

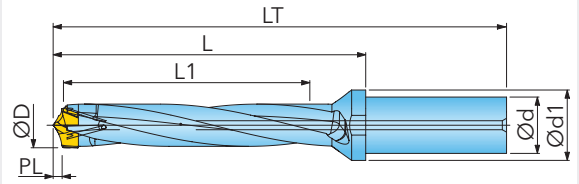
MONTAGE D'APRÈS LA NORME DIN 1835 B



| Désignation | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Bs | clé | | |
|----------------|------|--------|--------|----|----|-------|-------|-------|------|---|----|----------|---|-------|
| FD1200060JDR00 | 12 | 12,0 | 12,4 | 16 | 20 | 132,7 | 84,7 | 64,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,115 |
| FD1250063JDR00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 135,5 | 87,5 | 66,5 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,115 |
| FD1300065JDR00 | 13 | 13,0 | 13,4 | 16 | 20 | 138,8 | 90,8 | 69,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,180 |
| FD1350068JDR00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 141,6 | 93,6 | 71,5 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,185 |
| FD1400070JDR00 | 14 | 14,0 | 14,4 | 16 | 20 | 144,9 | 96,9 | 74,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,190 |
| FD1450073JDR00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 147,7 | 99,7 | 76,5 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,210 |
| FD1500075JER00 | 15 | 15,0 | 15,9 | 20 | 25 | 153,9 | 103,9 | 79,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,250 |
| FD1600080JER00 | 16 | 16,0 | 16,9 | 20 | 25 | 161,0 | 111,0 | 84,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,250 |
| FD1700085JER00 | 17 | 17,0 | 17,9 | 20 | 25 | 168,0 | 118,0 | 89,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,285 |
| FD1800090JFR00 | 18 | 18,0 | 18,9 | 25 | 32 | 182,1 | 126,1 | 94,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,410 |
| FD1900095JFR00 | 19 | 19,0 | 19,9 | 25 | 32 | 188,7 | 132,7 | 99,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,425 |
| FD2000100JFR00 | 20 | 20,0 | 20,9 | 25 | 32 | 195,3 | 139,3 | 104,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,460 |
| FD2100105JFR00 | 21 | 21,0 | 21,9 | 25 | 32 | 201,8 | 145,8 | 109,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,490 |
| FD2200110JFR00 | 22 | 22,0 | 22,9 | 25 | 32 | 208,4 | 152,4 | 114,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,750 |
| FD2300115JGR00 | 23 | 23,0 | 23,9 | 32 | 42 | 218,8 | 158,8 | 119,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,765 |
| FD2400120JGR00 | 24 | 24,0 | 24,9 | 32 | 42 | 225,4 | 165,4 | 124,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,775 |
| FD2500125JGR00 | 25 | 25,0 | 25,9 | 32 | 42 | 232,0 | 172,0 | 129,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 0,815 |

TWIST SPEED FORET À EMBOUTS INTERCHANGEABLES 8D Ø12,0-Ø25,9 Z= 3 (A)

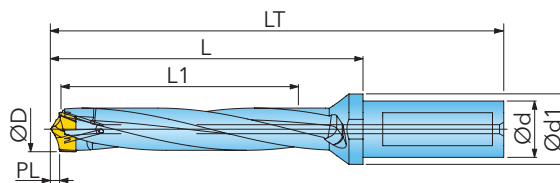
MONTAGE D'APRÈS LA NORME DIN 1835 A



| Désignation | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Bs | clé | IK | kg |
|----------------|------|--------|--------|----|----|-------|-------|-------|------|---|----|----------|----|-------|
| FD1200096T3R00 | 12 | 12,0 | 12,4 | 16 | 20 | 168,7 | 120,7 | 100,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,190 |
| FD1250100T3R00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 173,0 | 125,0 | 104,0 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,190 |
| FD1300104T3R00 | 13 | 13,0 | 13,4 | 16 | 20 | 177,8 | 129,8 | 108,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,195 |
| FD1350108T3R00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 182,1 | 134,1 | 112,0 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,205 |
| FD1400112T3R00 | 14 | 14,0 | 14,4 | 16 | 20 | 186,9 | 138,9 | 116,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,210 |
| FD1450116T3R00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 191,2 | 143,2 | 120,0 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,215 |
| FD1500120T4R00 | 15 | 15,0 | 15,9 | 20 | 25 | 198,9 | 148,9 | 124,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,280 |
| FD1600128T4R00 | 16 | 16,0 | 16,9 | 20 | 25 | 209,0 | 159,0 | 132,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,430 |
| FD1700136T4R00 | 17 | 17,0 | 17,9 | 20 | 25 | 219,0 | 169,0 | 140,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,340 |
| FD1800144T5R00 | 18 | 18,0 | 18,9 | 25 | 32 | 236,1 | 180,1 | 148,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,470 |
| FD1900152T5R00 | 19 | 19,0 | 19,9 | 25 | 32 | 245,7 | 189,7 | 156,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,500 |
| FD2000160T5R00 | 20 | 20,0 | 20,9 | 25 | 32 | 255,3 | 199,3 | 164,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,560 |
| FD2100168T5R00 | 21 | 21,0 | 21,9 | 25 | 32 | 264,8 | 208,8 | 172,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,560 |
| FD2200176T5R00 | 22 | 22,0 | 22,9 | 25 | 32 | 274,4 | 218,4 | 180,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,585 |
| FD2300184U7R00 | 23 | 23,0 | 23,9 | 32 | 42 | 287,8 | 227,8 | 188,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,850 |
| FD2400192U7R00 | 24 | 24,0 | 24,9 | 32 | 42 | 297,4 | 237,4 | 196,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,980 |
| FD2500200U7R00 | 25 | 25,0 | 25,9 | 32 | 42 | 307,0 | 247,0 | 204,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 1,055 |

TWIST SPEED FORET À EMBOUTS INTERCHANGEABLES 8D Ø12,0-Ø25,9 Z= 3 (B)

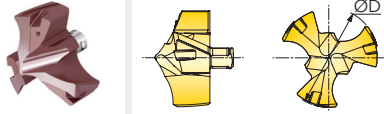
MONTAGE D'APRÈS LA NORME DIN 1835 B



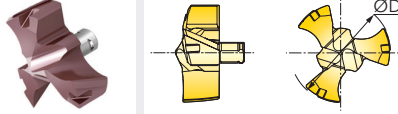
| Désignation | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Bs | clé | | |
|----------------|------|--------|--------|----|----|-------|-------|-------|------|---|----|----------|---|-------|
| FD1200096JDR00 | 12 | 12,0 | 12,4 | 16 | 20 | 168,7 | 120,7 | 100,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,185 |
| FD1250100JDR00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 173,0 | 125,0 | 104,0 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,190 |
| FD1300104JDR00 | 13 | 13,0 | 13,4 | 16 | 20 | 177,8 | 129,8 | 108,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,135 |
| FD1350108JDR00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 182,1 | 134,1 | 112,0 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,205 |
| FD1400112JDR00 | 14 | 14,0 | 14,4 | 16 | 20 | 186,9 | 138,9 | 116,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,205 |
| FD1450116JDR00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 191,2 | 143,2 | 120,0 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,215 |
| FD1500120JER00 | 15 | 15,0 | 15,9 | 20 | 25 | 198,9 | 148,9 | 124,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,275 |
| FD1600128JER00 | 16 | 16,0 | 16,9 | 20 | 25 | 209,0 | 159,0 | 132,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,315 |
| FD1700136JER00 | 17 | 17,0 | 17,9 | 20 | 25 | 219,0 | 169,0 | 140,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,340 |
| FD1800144JFR00 | 18 | 18,0 | 18,9 | 25 | 32 | 236,1 | 180,1 | 148,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,465 |
| FD1900152JFR00 | 19 | 19,0 | 19,9 | 25 | 32 | 245,7 | 189,7 | 156,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,495 |
| FD2000160JFR00 | 20 | 20,0 | 20,9 | 25 | 32 | 255,3 | 199,3 | 164,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,530 |
| FD2100168JFR00 | 21 | 21,0 | 21,9 | 25 | 32 | 264,8 | 208,8 | 172,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,555 |
| FD2200176JFR00 | 22 | 22,0 | 22,9 | 25 | 32 | 274,4 | 218,4 | 180,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,585 |
| FD2300184JGR00 | 23 | 23,0 | 23,9 | 32 | 42 | 287,8 | 227,8 | 188,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,850 |
| FD2400192UJG00 | 24 | 24,0 | 24,9 | 32 | 42 | 297,4 | 237,4 | 196,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,980 |
| FD2500200UJG00 | 25 | 25,0 | 25,9 | 32 | 42 | 307,0 | 247,0 | 204,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 1,055 |

EMBOUTS POUR FORETS TWISTFEED

Usinage de l'acier et de la fonte



Usinage fond plat



| Usinage de l'acier et de la fonte | | | | Usinage fond plat | | | |
|-----------------------------------|------------------------------|------------|---------|-------------------|------------------------------|------------|---------|
| D | désignation acier / fonte | Fond plat | nuance | D | désignation acier / fonte | Fond plat | nuance |
| 12,0 | FPC1200R01 | FPF1200R01 | IN 2205 | 16,6 | FPC1660R01 | | IN 2205 |
| 12,1 | FPC1210R01 | | IN 2205 | 16,7 | FPC1670R01 | | IN 2205 |
| 12,2 | FPC1220R01 | | IN 2205 | 16,8 | FPC1680R01 | | IN 2205 |
| 12,3 | FPC1230R01 | | IN 2205 | 16,9 | FPC1690R01 | | IN 2205 |
| 12,4 | FPC1240R01 | | IN 2205 | 17,0 | FPC1700R01 | FPF1700R01 | IN 2205 |
| 12,5 | FPC1250R01 | FPF1250R01 | IN 2205 | 17,1 | FPC1710R01 | | IN 2205 |
| 12,6 | FPC1260R01 | | IN 2205 | 17,2 | FPC1720R01 | | IN 2205 |
| 12,7 | FPC1270R01 | | IN 2205 | 17,3 | FPC1730R01 | | IN 2205 |
| 12,8 | FPC1280R01 | | IN 2205 | 17,4 | FPC1740R01 | | IN 2205 |
| 12,9 | FPC1290R01 | | IN 2205 | 17,5 | FPC1750R01 | FPF1750R01 | IN 2205 |
| 13,0 | FPC1300R01 | FPF1300R01 | IN 2205 | 17,6 | FPC1760R01 | | IN 2205 |
| 13,1 | FPC1310R01 | | IN 2205 | 17,7 | FPC1770R01 | | IN 2205 |
| 13,2 | FPC1320R01 | | IN 2205 | 17,8 | FPC1780R01 | | IN 2205 |
| 13,3 | FPC1330R01 | | IN 2205 | 17,9 | FPC1790R01 | | IN 2205 |
| 13,4 | FPC1340R01 | | IN 2205 | 18,0 | FPC1800R01 | FPF1800R01 | IN 2205 |
| 13,5 | FPC1350R01 | FPF1350R01 | IN 2205 | 18,1 | FPC1810R01 | | IN 2205 |
| 13,6 | FPC1360R01 | | IN 2205 | 18,2 | FPC1820R01 | | IN 2205 |
| 13,7 | FPC1370R01 | | IN 2205 | 18,3 | FPC1830R01 | | IN 2205 |
| 13,8 | FPC1380R01 | | IN 2205 | 18,4 | FPC1840R01 | | IN 2205 |
| 13,9 | FPC1390R01 | | IN 2205 | 18,5 | FPC1850R01 | FPF1850R01 | IN 2205 |
| 14,0 | FPC1400R01 | FPF1400R01 | IN 2205 | 18,6 | FPC1860R01 | | IN 2205 |
| 14,1 | FPC1410R01 | | IN 2205 | 18,7 | FPC1870R01 | | IN 2205 |
| 14,2 | FPC1420R01 | | IN 2205 | 18,8 | FPC1880R01 | | IN 2205 |
| 14,3 | FPC1430R01 | | IN 2205 | 18,9 | FPC1890R01 | | IN 2205 |
| 14,4 | FPC1440R01 | | IN 2205 | 19,0 | FPC1900R01 | FPF1900R01 | IN 2205 |
| 14,5 | FPC1450R01 | FPF1450R01 | IN 2205 | 19,1 | FPC1910R01 | | IN 2205 |
| 14,6 | FPC1460R01 | | IN 2205 | 19,2 | FPC1920R01 | | IN 2205 |
| 14,7 | FPC1470R01 | | IN 2205 | 19,3 | FPC1930R01 | | IN 2205 |
| 14,8 | FPC1480R01 | | IN 2205 | 19,4 | FPC1940R01 | | IN 2205 |
| 14,9 | FPC1490R01 | | IN 2205 | 19,5 | FPC1950R01 | FPF1950R01 | IN 2205 |
| 15,0 | FPC1500R01 | FPF1500R01 | IN 2205 | 19,6 | FPC1960R01 | | IN 2205 |
| 15,1 | FPC1510R01 | | IN 2205 | 19,7 | FPC1970R01 | | IN 2205 |
| 15,2 | FPC1520R01 | | IN 2205 | 19,8 | FPC1980R01 | | IN 2205 |
| 15,3 | FPC1530R01 | | IN 2205 | 19,9 | FPC1990R01 | | IN 2205 |
| 15,4 | FPC1540R01 | | IN 2205 | 20,0 | FPC2000R01 | FPF2000R01 | IN 2205 |
| 15,5 | FPC1550R01 | FPF1550R01 | IN 2205 | 20,1 | FPC2010R01 | | IN 2205 |
| 15,6 | FPC1560R01 | | IN 2205 | 20,2 | FPC2020R01 | | IN 2205 |
| 15,7 | FPC1570R01 | | IN 2205 | 20,3 | FPC2030R01 | | IN 2205 |
| 15,8 | FPC1580R01 | | IN 2205 | 20,4 | FPC2040R01 | | IN 2205 |
| 15,9 | FPC1590R01 | | IN 2205 | 20,5 | FPC2050R01 | FPF2050R01 | IN 2205 |
| 16,0 | FPC1600R01 | FPF1600R01 | IN 2205 | 20,6 | FPC2060R01 | | IN 2205 |
| 16,1 | FPC1610R01 | | IN 2205 | 20,7 | FPC2070R01 | | IN 2205 |
| 16,2 | FPC1620R01 | | IN 2205 | 20,8 | FPC2080R01 | | IN 2205 |
| 16,3 | FPC1630R01 | | IN 2205 | 20,9 | FPC2090R01 | | IN 2205 |
| 16,4 | FPC1640R01 | | IN 2205 | 21,0 | FPC2100R01 | FPF2100R01 | IN 2205 |
| 16,5 | FPC1650R01 | FPF1650R01 | IN 2205 | 21,5 | FPC2150R01 | FPF2150R01 | IN 2205 |

EMBOUTS POUR FORETS TWISTFEED

| D | Désignation | | |
|------|---------------|------------|---------|
| | acier / fonte | Fond plat | nuance |
| 22,0 | FPC2200R01 | FPF2200R01 | IN 2205 |
| 22,5 | FPC2250R01 | FPF2250R01 | IN 2205 |
| 23,0 | FPC2300R01 | FPF2300R01 | IN 2205 |
| 23,5 | FPC2350R01 | FPF2350R01 | IN 2205 |
| 24,0 | FPC2400R01 | FPF2400R01 | IN 2205 |
| 24,5 | FPC2450R01 | FPF2450R01 | IN 2205 |
| 25,0 | FPC2500R01 | FPF2500R01 | IN 2205 |
| 25,5 | FPC2550R01 | FPF2550R01 | IN 2205 |

| D | Désignation | | |
|---|---------------|-----------|--------|
| | acier / fonte | Fond plat | nuance |