

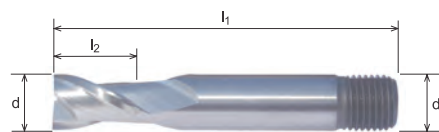
2 Flute End Mills (Slot Drills)
Milling keyways and slots to size in one cut. Designed for plunging operations.

Fraises 2 goujures (Fraises à Rainurer)
Pour le fraisage de rainures en une seule passe. Conçue pour les opérations de soyage.

Schaftfräser (Bohrnutenfräser), 2-schneidig
Maßfräsen von Keilnuten und Kerben in einem Durchgang. Für Eintauchvorgänge ausgelegt.

Fresas de forma de 2 ranuras (brocas para ranurar)
Fresado de ranuras y chavetas en un solo corte.
Diseñada para operaciones de inmersión.

2-х перые концевые фрезы (шпоночные фрезы)
Для фрезерования шпоночных пазов и уступов.
Конструкция позволяет осуществлять врезание под углом.



Code
Código
Код

348

| d | l ₂ | l ₁ | d ₁ | Code Código Код | |
|------|----------------|----------------|----------------|---|--|
| | | | | Uncoated Non-Revêtus Unbeschichtet Sin Revestimiento Без Покрытия | TiAlN Coated Revêtus TiAlN TiAlN-beschichtet Revestimiento de TiAlN Покрытие TiAlN |
| 1.5 | 2.5 | 48 | 6 | 3480150 | 3480150A |
| 2 | 4 | 48 | 6 | 3480200 | 3480200A |
| 2.5 | 5 | 49 | 6 | 3480250 | 3480250A |
| 3 | 5 | 49 | 6 | 3480300 | 3480300A |
| 3.5 | 6 | 50 | 6 | 3480350 | 3480350A |
| 4 | 7 | 51 | 6 | 3480400 | 3480400A |
| 4.5 | 7 | 51 | 6 | 3480450 | 3480450A |
| 5 | 8 | 52 | 6 | 3480500 | 3480500A |
| 5.5 | 8 | 52 | 6 | 3480550 | 3480550A |
| 6 | 8 | 52 | 6 | 3480600 | 3480600A |
| 6.5 | 10 | 60 | 10 | 3480650 | 3480650A |
| 7 | 10 | 60 | 10 | 3480700 | 3480700A |
| 7.5 | 10 | 60 | 10 | 3480750 | 3480750A |
| 8 | 11 | 61 | 10 | 3480800 | 3480800A |
| 8.5 | 11 | 61 | 10 | 3480850 | 3480850A |
| 9 | 11 | 61 | 10 | 3480900 | 3480900A |
| 9.5 | 11 | 61 | 10 | 3480950 | 3480950A |
| 10 | 13 | 63 | 10 | 3481000 | 3481000A |
| 10.5 | 13 | 70 | 12 | 3481050 | 3481050A |
| 11 | 13 | 70 | 12 | 3481100 | 3481100A |
| 11.5 | 13 | 70 | 12 | 3481150 | 3481150A |
| 12 | 16 | 73 | 12 | 3481200 | 3481200A |

| d | l ₂ | l ₁ | d ₁ | Code Código Код | |
|-----|----------------|----------------|----------------|---|--|
| | | | | Uncoated Non-Revêtus Unbeschichtet Sin Revestimiento Без Покрытия | TiAlN Coated Revêtus TiAlN TiAlN-beschichtet Revestimiento de TiAlN Покрытие TiAlN |
| 13 | 16 | 73 | 12 | 3481300 | 3481300A |
| 14 | 16 | 73 | 12 | 3481400 | 3481400A |
| 15 | 16 | 73 | 12 | 3481500 | 3481500A |
| 16 | 19 | 79 | 16 | 3481600 | 3481600A |
| 17 | 19 | 79 | 16 | 3481700 | 3481700A |
| 18 | 19 | 79 | 16 | 3481800 | 3481800A |
| 19 | 19 | 79 | 16 | 3481900 | 3481900A |
| *20 | 19 | 79 | 16 | 3482000 | 3482000A |
| *22 | 26 | 102 | 25 | 3482200 | 3482200A |
| 24 | 26 | 102 | 25 | 3482400 | 3482400A |
| 25 | 26 | 102 | 25 | 3482500 | 3482500A |
| 26 | 26 | 102 | 25 | 3482600 | 3482600A |
| 28 | 26 | 102 | 25 | 3482800 | 3482800A |
| 30 | 26 | 102 | 25 | 3483000 | 3483000A |
| 32 | 32 | 112 | 32 | 3483200 | 3483200A |
| 35 | 32 | 112 | 32 | 3483500 | 3483500A |
| 36 | 32 | 112 | 32 | 3483600 | 3483600A |
| 38 | 38 | 118 | 32 | 3483800 | 3483800A |
| *40 | 38 | 118 | 32 | 3484000 | 3484000A |
| *42 | 38 | 118 | 32 | 3484200 | 3484200A |
| *45 | 38 | 118 | 32 | 3484500 | 3484500A |
| *50 | 45 | 125 | 32 | 3485000 | 3485000A |

Properties
Propriétés
Eigenschaften
Propiedades
Свойства

| | | |
|----|-------------------|-------------|
| mm | DIN 327 | HSS Co8e |
| | TYPE N | |
| | 30° | Z 2 |
| | UNCOATED TiAlN | |

* Lengths not to DIN 327
Longueurs non conformes à DIN 327
Längen nicht nach DIN 327
Longitudes no conformes a DIN 327
Размер не по DIN 327

| | | |
|--|---|--------------------------------|
| Application Anwendung Aplicación Применение | HIGH TENSILE STEELS ACIERS À HAUTE RÉSISTANCE HOCHFESTER STAHL ACERO DE ALTA RESISTENCIA TENSIL ВЫСОКОПРОЧНАЯ СТАЛЬ | GENERAL ALLGEMEINE ОБЩЕЕ |
|--|---|--------------------------------|



Shank Cutters
Fraises à queue
Schaftfräser
Cortadoras de mango
Хвостовые фрезы



OSG GROUP COMPANY

| |
|-----------------------|
| Code Código Код |
| 349 |

| Properties Propriétés Eigenschaften Propiedades Свойства | | |
|--|--------------------------|-----------------|
| inch | BS 122 | HSS Co8e |
| | TYPE N | |
| | 30° | Z 2 |
| | UNCOATED TiAIN | |
| | | pgs 149-151 |



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Maßfräsen von Keilnuten und Kerben in einem Durchgang. Für Eintauchvorgänge ausgelegt.

Fresas de forma de 2 ranuras (brocas para ranurar)

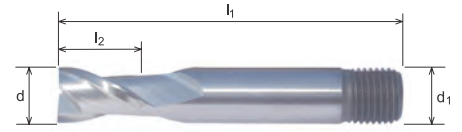
Fresado de ranuras y chavetas en un solo corte.

Diseñada para operaciones de inmersión.

2-х первые концевые фрезы (шпоночные фрезы)

Для фрезерования шпоночных пазов и уступов.

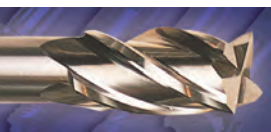
Конструкция позволяет осуществлять врезание под углом.



| d | l ₂ | l ₁ | d ₁ | Code Código Код | |
|------|----------------|----------------|----------------|--|---|
| | | | | Uncoated Non-Revêtus Unbeschichtet Sin Revestimiento Без Покрывтия | TiAIN Coated Revêtus TiAIN TiAIN-beschichtet Revestimiento de TiAIN Покрывтие TiAIN |
| 1/16 | 2.5 | 48 | 1/4 | 3490159 | 3490159A |
| 1/8 | 8 | 51 | 1/4 | 3490318 | 3490318A |
| 3/16 | 10 | 52 | 1/4 | 3490476 | 3490476A |
| 1/4 | 11 | 56 | 1/4 | 3490635 | 3490635A |
| 5/16 | 13 | 60 | 3/8 | 3490794 | 3490794A |
| 3/8 | 14 | 60 | 3/8 | 3490953 | 3490953A |
| 7/16 | 17 | 65 | 1/2 | 3491111 | 3491111A |
| 1/2 | 19 | 67 | 1/2 | 3491270 | 3491270A |
| 9/16 | 22 | 69 | 1/2 | 3491429 | 3491429A |
| 5/8 | 22 | 72 | 5/8 | 3491588 | 3491588A |
| 3/4 | 25 | 77 | 5/8 | 3491905 | 3491905A |

| d | l ₂ | l ₁ | d ₁ | Code Código Код | |
|-------|----------------|----------------|----------------|--|---|
| | | | | Uncoated Non-Revêtus Unbeschichtet Sin Revestimiento Без Покрывтия | TiAIN Coated Revêtus TiAIN TiAIN-beschichtet Revestimiento de TiAIN Покрывтие TiAIN |
| 7/8 | 25 | 100 | 1" | 3492223 | 3492223A |
| 1" | 27 | 95 | 1" | 3492540 | 3492540A |
| 1.1/8 | 30 | 95 | 1" | 3492858 | 3492858A |
| 1.1/4 | 35 | 117 | 1.1/4 | 3493175 | 3493175A |
| 1.3/8 | 40 | 111 | 1.1/4 | 3493493 | 3493493A |
| 1.1/2 | 43 | 115 | 1.1/4 | 3493810 | 3493810A |
| 1.5/8 | 48 | 118 | 1.1/4 | 3494128 | 3494128A |
| 1.3/4 | 48 | 118 | 1.1/4 | 3494445 | 3494445A |
| 1.7/8 | 51 | 118 | 1.1/4 | 3494763 | 3494763A |
| 2" | 51 | 118 | 1.1/4 | 3495080 | 3495080A |

| | | |
|---|--|---------------------------------------|
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|---|--|---------------------------------------|



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shaping your dreams