



## LAVORAZIONE DELL' ALLUMINIO

ALUMINIUM PROCESSING  
PROCESAMIENTO DE ALUMINIO  
USINAGE DE L'ALUMINIUM

CATALOGO  
CATALOGUE  
CATÁLOGO  
CATALOGUE  
**06/2022**

 **UTENSIL  
TECNICA**  
TAILORED TECH TOOLS





# L'AZIENDA

THE COMPANY LA EMPRESA LA SOCIÉTÉ



UTENSILTECNICA nasce nel 1973 a Montegridolfo, grazie all'esperienza di UGUCCIONI MAURO e della sua famiglia; rappresenta una realtà importante per la produzione di utensili speciali per la lavorazione di legno, alluminio e pvc.

UTENSILTECNICA was founded in 1973 in Montegridolfo (RN), thanks to the experience and determination of its founder Mauro Uguccioni and his family members. The Company represents an important point of reference for the production of customized high standard quality tools, for wood, aluminium and pvc processing.



*UTENSILTECNICA fue fundada en 1973 en Montegridolfo (RN), gracias a la experiencia y determinación de su fundador Mauro Uguccioni y sus familiares. La empresa representa un importante punto de referencia para la producción de herramientas personalizadas de alta calidad, para madera, aluminio y procesamiento de PVC.*

*UTENSILTECNICA a été fondée en 1973 à Montegridolfo, grâce à l'expérience de UGUCCIONI MAURO et de sa famille, elle représente une réalité importante pour la production d'outils spéciaux pour le usinage du bois, de l'aluminium et du PVC.*



 **UTENSIL  
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# REPARTO MECCANICA



Macchinari tecnologicamente all'avanguardia e operatori altamente specializzati sono la nostra garanzia per fornirvi un utensile perfetto e duraturo. Siamo anche specializzati nella produzione di utensili per il settore dei serramenti: grazie al nostro know-how possiamo fornirvi non solamente soluzioni utili per tutte le fasi di costruzione dell'infisso, ma anche una costante assistenza tecnica per ogni vostra esigenza.

## MECHANICAL DEPARTMENT

Technologically advanced machinery and highly specialized operators are our guarantee for providing you perfect and long lasting tools. We are also specialized in the production of tools for the window frame sector: thanks to our know-how we can provide you not only useful solutions for the construction phases, but also a constant technical assistance for all your needs.



## DEPARTAMENTO MECANICO

La maquinaria tecnológicamente avanzada y los operadores altamente especializados son nuestra garantía para proporcionarle herramientas perfectas y duraderas. También estamos especializados en la producción de herramientas para el sector de ventanas: gracias a nuestro know-how, podemos proporcionar no solo soluciones útiles para las fases de construcción, sino también una asistencia técnica importante para todas sus necesidades.



## DÉPARTEMENT MÉCANIQUE

Des machines technologiquement avancées et des opérateurs hautement spécialisés sont notre garantie pour vous fournir un outil parfait et durable. Nous sommes également spécialisés dans la production d'outils pour le secteur des fenêtres et des portes : grâce à notre know-how, nous pouvons vous fournir des solutions utiles pour toutes les phases de la construction de fenêtres et de portes, ainsi qu'une assistance technique constante pour tous vos besoins.





# REPARTO DIAMANTE



Grazie alle nostre macchine di ultima generazione possiamo produrre utensili in PCD sia speciali che standard di altissimo livello e offrire un preciso e puntuale servizio di affilatura. Per riuscire a raggiungere la qualità che contraddistingue i nostri utensili ci sono voluti anni di affinamento ed esperienza che ci hanno fatto guadagnare la reputazione che oggi ci rende orgogliosamente un punto di riferimento nel settore.

## PCD DEPARTMENT

Thanks to our new generation machines we can produce both special and standard PCD tools of the highest level and offer a precise and punctual sharpening service. In order to achieve the quality that distinguishes our tools, it took years of refinement and experience that have assured us the reputation that today makes us proudly a point of reference in the sector.



## DEPARTAMENTO DE DIAMANTE

Gracias a nuestras máquinas de nueva generación, podemos producir herramientas PCD especiales y especiales del más alto nivel y ofrecer un servicio de afilado preciso y puntual. Para lograr la calidad que distingue nuestras herramientas, se necesitaron años de refinamiento y experiencia que nos han asegurado la reputación que hoy nos hace orgullosamente un punto de referencia en el sector.



## DÉPARTEMENT DIAMANT POLYCRISTALLIN (PCD)

Grâce à nos machines de dernière génération nous pouvons produire des outils spéciaux et de très haute qualité en PCD et offrir un service d'affûtage précis et ponctuel. Pour atteindre la qualité qui distingue nos outils, il a fallu des années de raffinement et d'expérience qui nous ont valu la réputation qui fait aujourd'hui fièrement de nous un point de référence dans l'industrie.

# REPARTO PUNTE E FRESE IN HM (METALLO DURO)



Con il nostro reparto preposto alla produzione e all'affilatura di punte e frese in HM offriamo una produzione attenta al minimo dettaglio e sempre disponibile a progettare e studiare soluzioni personalizzate per ogni tipo di lavorazione e necessità. Anche in questo settore le nostre macchine sommate all'esperienza maturata negli anni e all'efficienza dei nostri operatori specializzati assicurano un servizio di primissima qualità e un'assistenza tecnica costante per i nostri clienti.

## HW (SOLID CARBIDE) DRILLS AND CUTTERS DEPARTMENT

With our department dedicated to the production and sharpening of HW (solid carbide) drills and cutters, we offer production that is focused on the smallest details and always available to design and study customized solutions for every type of processing and need. Even in this sector, our machines added to the experience gained over the years and the efficiency of our specialized operators ensure top quality service and constant technical assistance for our customers.

## DEPARTAMENTO DE BROCAS Y FRESAS EN HW (WIDIA)

Con nuestro departamento dedicado a la producción y afilado de taladros y cortadores en HM (WIDIA), ofrecemos una producción centrada en los detalles más pequeños y siempre disponible para diseñar y estudiar soluciones personalizadas para cada tipo de procesamiento y necesidad. Incluso en este sector, nuestras máquinas se suman a la experiencia adquirida a lo largo de los años y la eficiencia de nuestros operadores especializados aseguran un servicio de alta calidad y asistencia técnica constante para nuestros clientes.

## DÉPARTEMENT DES MÈCHES ET FRAISES EN HW (CARBURE SOLIDE)

Avec notre département chargé de la production et de l'affûtage des mèches et des fraises en carbure solide, nous offrons une production attentive au moindre détail et toujours disponible pour concevoir et étudier des solutions personnalisées pour chaque type de usinage et de besoins. Dans ce secteur également, nos machines, combinées à l'expérience acquise au fil des ans et à l'efficacité de nos opérateurs spécialisés, garantissent un service de haute qualité et une assistance technique constante à nos clients.



# CONTROLLO QUALITA' MARCATURA LASER



La società vanta di un solido reparto produttivo che le permette di proporsi con tutte le migliori credenziali sul mercato nazionale e internazionale, sia in termini di affidabilità, precisione e rapporto qualità-prezzo. La nostra qualità è il risultato dell'unione tra innovazione tecnologica, esperienza maturata in quarantacinque anni di attività e attenzione costante verso la produzione di ogni singolo utensile.

## QUALITY CONTROL/LASER MARKING

The company has advanced machinery and latest technological production solutions in order to compete with national and international markets, both in terms of reliability, accuracy, durability, and as well with an excellent price/quality ratio.

Our quality is the result of technological innovation, forty-five years of experience, constant attention to every details of each tool produced.

## CONTROL DE CALIDAD/MARCADO LÁSER

Con nuestro departamento dedicado a la producción y afilado de cuchillas, taladros y cortadores en HM (WIDIA), ofrecemos una producción centrada en los detalles más pequeños y siempre disponible para diseñar y estudiar soluciones personalizadas para cada tipo de procesamiento y necesidad. Incluso en este sector, nuestras máquinas se suman a la experiencia adquirida a lo largo de los años y la eficiencia de nuestros operadores especializados aseguran un servicio de alta calidad y asistencia técnica constante para nuestros clientes.

## LE CONTRÔLE DE QUALITÉ ET LE MARQUAGE LASER

L'entreprise dispose d'un solide département de production qui lui permet d'offrir toutes les meilleures références sur le marché national et international, tant en termes de fiabilité, de précision que de rapport qualité/prix. Notre qualité est le résultat de l'union entre l'innovation technologique, l'expérience acquise en plus de quarante-cinq ans d'activité et une attention constante à la production de chaque outil.

PCD dry

Art.



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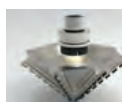
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Art.

Alucobond



8P.3001

FRESE PCD PER INCISIONI SU PANNELLI DI ALLUMINIO COMPOSITO (ALUCOBOND-DIABOND-ALPOLIC-LARSON-REYNOBOND-ALUBOND-ALBOND-TRESPA-STACBOND etc.) SU MACCHINE CNC  
PCD V-GROOVING CUTTERS FOR PROCESSING COMPOSITE ALUMINIUM (ALUCOBOND-DIABOND-ALPOLIC-LARSON-REYNOBOND-ALUBOND-ALBOND-TRESPA-STACBOND ecc.) PANELS ON CNC MACHINING CENTERS

FRESAS EN PCD PARA INCISIONES DE PANELES DE ALUMINIO COMPUESTO (ALUCOBOND-DIABOND-ALPOLIC-LARSON-REYNOBOND-ALUBOND-ALBOND-TRESPA-STACBOND ecc.) PARA CENTROS DE TRABAJO  
FRAISES À RAINURES EN V EN PCD POUR L'USINAGE DE PANNEAUX COMPOSITES EN ALUMINIUM (ALUCOBOND-DIABOND-ALPOLIC-LARSON-REYNOBOND-ALUBOND-ALBOND-TRESPA-STACBOND ecc.) SUR DES MACHINES À COMMANDE NUMÉRIQUE

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0.53

PUNTE IN HM SAGOMATE Z=2 PER INCISIONI SU PANNELLI DI ALLUMINIO COMPOSITO  
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FRESAS ESPECIALES EN WIDIA Z=2 PARA INCISIONES DE PANELES DE ALUMINIO COMPUESTO  
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28



0.54

PUNTE IN PCD/HM SAGOMATE Z=2 PER SMUSSARE E CONTORNARE PANNELLI DI ALLUMINIO COMPOSITO  
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0.55

TESTE PORTACOLTELLI HM SAGOMATE PER INCISIONI SU PANNELLI DI ALLUMINIO COMPOSITO  
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CABEZALES DE CORTE PERFILADAS EN WIDIA PARA INCISIONES DE PANELES DE ALUMINIO COMPUESTO  
TÊTES DE COUTEAUX PROFILÉES À RAINURES EN V EN CARBURE SOLIDE POUR L'USINAGE DE PANNEAUX COMPOSITES EN ALUMINIUM

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0.56

FRESE IN PCD/HM SAGOMATE Z=12 PER INCISIONI SU PANNELLI DI ALLUMINIO COMPOSITO  
PROFIED V-GROOVING PCD/HW CUTTERS Z=12 FOR PROCESSING COMPOSITE ALUMINIUM PANELS

FRESAS ESPECIAL EN PCD/WIDIA Z=12 PARA INCISIONES DE PANELES DE ALUMINIO COMPUESTO  
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31



0.57/01 -  
0.57/02

PUNTE IN HM SAGOMATE Z=2 PER ESEGUIRE RIPASSI O FORI SU PANNELLI DI ALLUMINIO COMPOSITO  
PROFIED HW ROUTER BITS Z=2 FOR DRILLING OR REFINING MILLINGS ON COMPOSITE ALUMINIUM PANELS

BROCAS ESPECIALES EN WIDIA Z=2 PARA TALADRAR O REFINACIONES DE LAS OPERACIONES DE FRESADO EN LOS PANELES COMPUESTOS DE ALUMINIO  
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0.60

LAMA IN HW PER TAGLIO E TRONCATURA DI PANNELLI DI ALLUMINIO COMPOSITO  
HW SAW-BLADE FOR CUTTING AND SIZING COMPOSITE ALUMINIUM PANELS

SIERRA EN WIDIA PARA CORTAR Y DIMENSIONAR PANELES DE ALUMINIO COMPUESTO  
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9.61

LAMA IN HM PER TAGLIO E TRONCATURA DI PROFILATI IN ALLUMINIO  
HW SAW-BLADE FOR CUTTING AND SIZING OF ALUMINIUM PROFILES

SIERRA EN WIDIA PARA CORTAR Y DIMENSIONAR DE PERFILES DE ALUMINIO  
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PA040

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HW HELICOIDAL CUTTER Z=2 FOR PROCESSING ALUMINIUM ON CNC MACHINING CENTERS, SHORT VERSION

FRESA HELICOIDALE Z=2 EN WIDIA PARA TRABAJAR ALUMINIO PARA CENTRO DE TRABAJOS, SERIE CORTA  
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PA041

FRESA ELICOIDALE IN HM Z=2 PER LAVORARE ALLUMINIO SU MACCHINE CNC, SERIE LUNGA  
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FRESA HELICOIDALE Z=2 EN WIDIA PARA TRABAJAR ALUMINIO PARA CENTRO DE TRABAJOS, SERIE LARGA  
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HM / WIDIA

Art.

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HM / WIDIA



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# LAVORAZIONE PROFILATI D'ALLUMINIO SENZA LUBRIFICAZIONE? ECCO LE NOSTRE RIVOLUZIONARIE SOLUZIONI IN PCD!

THE PROCESSING OF ALUMINIUM PROFILES WITHOUT LUBRICATION?  
HERE ARE OUR REVOLUTIONARY PCD SOLUTIONS!

MECANIZADO DE PERFILES DE ALUMINIO SIN LUBRICACIÓN? AQUÍ  
ESTÁN NUESTRAS REVOLUCIONARIAS SOLUCIONES EN PCD!

L'USINAGE DE PROFILÉS EN ALUMINIUM SANS  
LUBRIFICATION? VOICI NOS SOLUTIONS PCD  
RÉVOLUTIONNAIRES!

## Niente lubrificazione

No lubrication

Sin lubricación

Pas de lubrification



## Niente fumi tossici

No toxic fumes

Sin humos tóxicos

Pas de fumées

toxiques

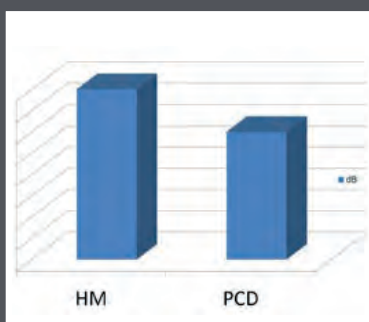


## Niente pulizia pezzo

No cleaning needed

Sin limpieza de la pieza

Pas de nettoyage de pièces



## Meno rumorosità

Less noise

Menos ruido

Moins de bruit



## Durata 50 volte superiore

50 times longer lasting

50 veces más duración

Durée 50 fois plus longue

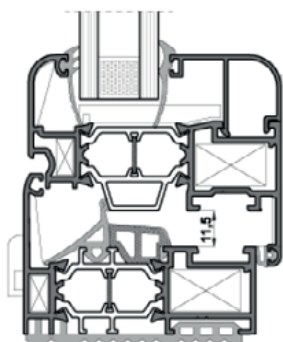
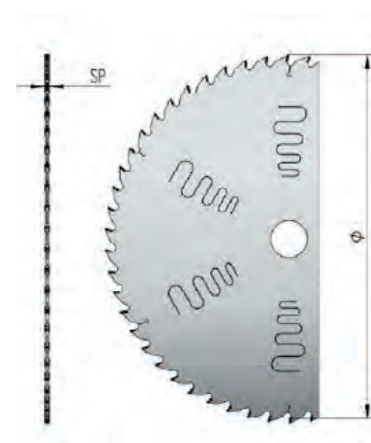
# 8L.1001

- 🇮🇹 **LAMA PCD PER TAGLIO E TRONCATURA DI PROFILATI IN ALLUMINIO SENZA LUBRIFICAZIONE (H=6)**
- 🇬🇧 **PCD SAW-BLADE FOR CUTTING AND SIZING OF ALUMINIUM PROFILES WITHOUT LUBRICATION (H=6)**
- 🇪🇸 **SIERRA EN PCD PARA CORTAR Y DIMENSIONAR DE PERFILES DE ALUMINIO SIN LUBRICACIÓN (H=6)**
- 🇫🇷 **LAME PCD DE COUPE ET TRONÇONNAGE DE PROFILÉS EN ALUMINIUM SANS LUBRIFICATION (H=6)**

PCD dry



| Articolo /Article<br>Artículo / Article | Ø   | Spessore/Thickness<br>Espesor/ Épaisseur | ØForo/Bore Ø<br>ØTaladro/ØTrou | Z   |
|-----------------------------------------|-----|------------------------------------------|--------------------------------|-----|
| 8L.1001-300X3.2Z72                      | 300 | 3,2                                      | 30/32                          | 72  |
| 8L.1001-300X3.2Z84                      | 300 | 3,2                                      | 32                             | 84  |
| 8L.1001-300X3.2Z96                      | 300 | 3,2                                      | 20/30/32                       | 96  |
| 8L.1001-330X3.5Z80                      | 330 | 3,5                                      | 20/32                          | 80  |
| 8L.1001-330X3.5Z100                     | 330 | 3,5                                      | 20/32                          | 100 |
| 8L.1001-350X3.6Z84                      | 350 | 3,6                                      | 30/32+2                        | 84  |
| 8L.1001-350X3.5Z96                      | 350 | 3,5                                      | 32                             | 96  |
| 8L.1001-350X3.6Z108                     | 350 | 3,6                                      | 20/30/32+2                     | 108 |
| 8L.1001-370x3.8Z108                     | 370 | 3,8                                      | 32/40                          | 108 |
| 8L.1001-400X3.8Z72                      | 400 | 3,8                                      | 32+2                           | 72  |
| 8L.1001-400X4.0Z84                      | 400 | 4,0                                      | 30/32                          | 84  |
| 8L.1001-400X4.4Z84                      | 400 | 4,4                                      | 30/32                          | 84  |
| 8L.1001-400X3.8Z96                      | 400 | 3,8                                      | 32/40                          | 96  |
| 8L.1001-400X4.0Z96                      | 400 | 4,0                                      | 32/40+2                        | 96  |
| 8L.1001-400X4.4Z96                      | 400 | 4,4                                      | 32/40+2                        | 96  |
| 8L.1001-400X3.8Z108                     | 400 | 3,8                                      | 32/40                          | 108 |
| 8L.1001-400X3.8Z120                     | 400 | 3,8                                      | 32+2                           | 120 |
| 8L.1001-400X4.0Z120                     | 400 | 4,0                                      | 30/32+2                        | 120 |
| 8L.1001-420X3.8Z96                      | 420 | 3,8                                      | 32/40                          | 96  |
| 8L.1001-420X4.4Z96                      | 420 | 4,4                                      | 30+2                           | 96  |



**Lama in diamante policristallino per la lavorazione di taglio SENZA LUBRIFICAZIONE su profilati di alluminio per il settore del serramento, massime prestazioni, qualità e durata!!!**

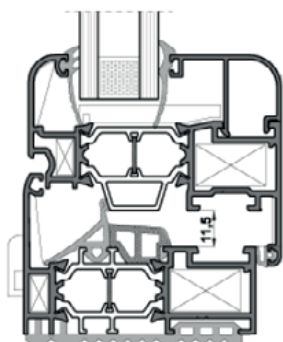
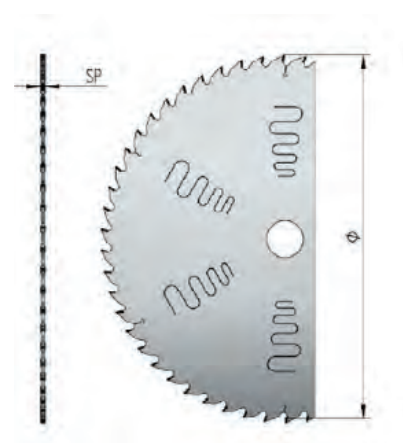
- PCD saw-blade for dry cutting aluminium profiles for the door and window sector: high performance, quality and lasting
- Serra de diamante policristalino para mecanizado de corte en seco en perfiles de aluminio para el sector de ventanas, máximo rendimiento, calidad y durabilidad.
- Lame PCD pour la coupe à sec de profilés en aluminium pour le secteur des portes et fenêtres, haute performance, qualité et durabilité

# 8L.1001

- 🇮🇹 **LAMA PCD PER TAGLIO E TRONCATURA DI PROFILATI IN ALLUMINIO SENZA LUBRIFICAZIONE (H=6)**
- 🇬🇧 **PCD SAW-BLADE FOR CUTTING AND SIZING OF ALUMINIUM PROFILES WITHOUT LUBRICATION (H=6)**
- 🇪🇸 **SIERRA EN PCD PARA CORTAR Y DIMENSIONAR DE PERFILES DE ALUMINIO SIN LUBRICACIÓN (H=6)**
- 🇫🇷 **LAME PCD DE COUPE ET TRONÇONNAGE DE PROFILÉS EN ALUMINIUM SANS LUBRIFICATION (H=6)**



| Articolo /Article<br>Artículo / Article | Ø   | Spessore/Thickness<br>Espesor/ Épaisseur | ØForo/Bore Ø<br>ØTaladro/ØTrou | Z   |
|-----------------------------------------|-----|------------------------------------------|--------------------------------|-----|
| 8L.1001-420X4.0Z120                     | 420 | 4,0                                      | 32                             | 120 |
| 8L.1001-450X4.0Z72                      | 450 | 4,0                                      | 32+2                           | 72  |
| 8L.1001-450X3.8Z84                      | 450 | 3,8                                      | 32+2                           | 84  |
| 8L.1001-450X4.0Z96                      | 450 | 4,0                                      | 30/32                          | 96  |
| 8L.1001-450X4.4Z96                      | 450 | 4,4                                      | 30/32                          | 96  |
| 8L.1001-450X4.0Z108                     | 450 | 4,0                                      | 30/32/40                       | 108 |
| 8L.1001-450X4.4Z108                     | 450 | 4,4                                      | 30/32/40                       | 108 |
| 8L.1001-450X4.0Z128                     | 450 | 4,0                                      | 30/32+2                        | 128 |
| 8L.1001-500X4.0Z72                      | 500 | 4,0                                      | 32                             | 72  |
| 8L.1001-500X4.0Z80                      | 500 | 4,0                                      | 32                             | 80  |
| 8L.1001-500X4.0Z96                      | 500 | 4,0                                      | 32                             | 96  |
| 8L.1001-500X4.0Z120                     | 500 | 4,0                                      | 30/32/40                       | 120 |
| 8L.1001-500X4.4Z120                     | 500 | 4,4                                      | 30/32+2/40                     | 120 |
| 8L.1001-500X4.0Z132                     | 500 | 4,0                                      | 30/32                          | 132 |
| 8L.1001-500X4.4Z132                     | 500 | 4,4                                      | 30/32                          | 132 |
| 8L.1001-500X4.2Z140                     | 500 | 4,2                                      | 30/32+2                        | 140 |
| 8L.1001-530X4.0Z120                     | 530 | 4,0                                      | 30+2                           | 120 |
| 8L.1001-550X4.0Z72                      | 550 | 4,0                                      | 32+2                           | 72  |
| 8L.1001-550X4.0Z96                      | 550 | 4,0                                      | 32+2                           | 96  |
| 8L.1001-550X4.2Z110                     | 550 | 4,2                                      | 30                             | 110 |
| 8L.1001-550X4.0Z120                     | 550 | 4,0                                      | 30/32                          | 120 |



**Lama in diamante policristallino per la lavorazione di taglio SENZA LUBRIFICAZIONE su profilati di alluminio per il settore del serramento, massime prestazioni, qualità e durata!!!**

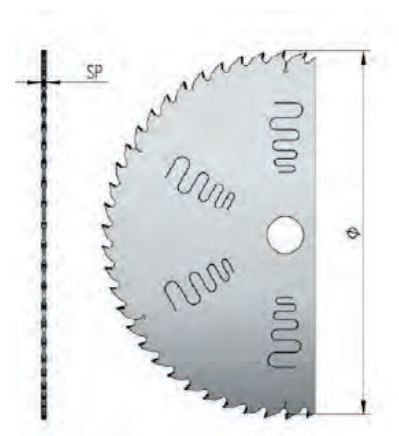
- PCD saw-blade for dry cutting aluminium profiles for the door and window sector: high performance, quality and lasting
- Serra de diamante policristalino para mecanizado de corte en seco en perfiles de aluminio para el sector de ventanas, máximo rendimiento, calidad y durabilidad.
- Lame PCD pour la coupe à sec de profilés en aluminium pour le secteur des portes et fenêtres, haute performance, qualité et durabilité

# 8L.1001

- 🇮🇹 **LAMA PCD PER TAGLIO E TRONCATURA DI PROFILATI IN ALLUMINIO SENZA LUBRIFICAZIONE (H=6)**
- 🇬🇧 **PCD SAW-BLADE FOR CUTTING AND SIZING OF ALUMINIUM PROFILES WITHOUT LUBRICATION (H=6)**
- 🇪🇸 **SIERRA EN PCD PARA CORTAR Y DIMENSIONAR DE PERFILES DE ALUMINIO SIN LUBRICACIÓN (H=6)**
- 🇫🇷 **LAME PCD DE COUPE ET TRONÇONNAGE DE PROFILÉS EN ALUMINIUM SANS LUBRIFICATION (H=6)**

PCD dry

| Articolo /Article<br>Artículo / Article | Ø   | Spessore/Thickness<br>Espesor/ Épaisseur | ØForo/Bore Ø<br>ØTaladro/ØTrou | Z   |
|-----------------------------------------|-----|------------------------------------------|--------------------------------|-----|
| 8L.1001-550X4.4Z120                     | 550 | 4,4                                      | 30/32                          | 120 |
| 8L.1001-550X4.0Z126                     | 550 | 4,0                                      | 32+2                           | 126 |
| 8L.1001-550X5.0Z126                     | 550 | 5,0                                      | 32+2                           | 126 |
| 8L.1001-550X4.0Z132                     | 550 | 4,0                                      | 30/32                          | 132 |
| 8L.1001-550X4.4Z132                     | 550 | 4,4                                      | 32+2                           | 132 |
| 8L.1001-550X4.2Z140                     | 550 | 4,2                                      | 30/32+2                        | 140 |
| 8L.1001-550X4.6Z140                     | 550 | 4,6                                      | 30/32                          | 140 |
| 8L.1001-600X4.8Z96                      | 600 | 4,8                                      | 40                             | 96  |
| 8L.1001-600X5.0Z100                     | 600 | 5,0                                      | 32+2                           | 100 |
| 8L.1001-600X4.6Z120                     | 600 | 4,6                                      | 30/32                          | 120 |
| 8L.1001-600X4.0Z132                     | 600 | 4,0                                      | 30/32                          | 132 |
| 8L.1001-600X4.4Z132                     | 600 | 4,4                                      | 30/32                          | 132 |
| 8L.1001-600X5.0Z132                     | 600 | 5,0                                      | 32+2                           | 132 |
| 8L.1001-600X5.0Z136                     | 600 | 5,0                                      | 32+2                           | 136 |
| 8L.1001-600X4.0Z140                     | 600 | 4,0                                      | 30/32/40                       | 140 |
| 8L.1001-600X4.4Z140                     | 600 | 4,4                                      | 30/32/40                       | 140 |
| 8L.1001-600X4.6Z140                     | 600 | 4,6                                      | 30/32+2/40                     | 140 |
| 8L.1001-620X5.0Z90                      | 620 | 5,0                                      | 32                             | 90  |
| 8L.1001-650X5.0Z84                      | 650 | 5,0                                      | 32+2                           | 84  |
| 8L.1001-650X5.0Z100                     | 650 | 5,0                                      | 32+2                           | 100 |
| 8L.1001-650X4.4Z140                     | 650 | 4,4                                      | 30/32/40                       | 140 |
| 8L.1001-650X4.8Z140                     | 650 | 4,8                                      | 30/32/40                       | 140 |
| 8L.1001-700X5.0Z140                     | 700 | 5,0                                      | 30/32                          | 140 |
| 8L.1001-700X6.0Z180                     | 700 | 6,0                                      | 50                             | 180 |



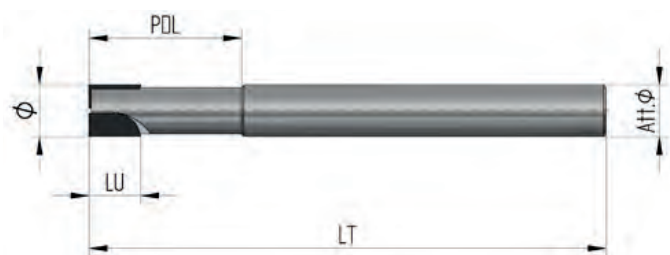
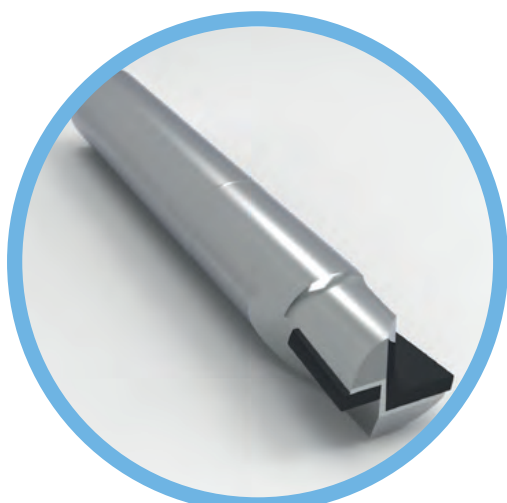
# 8P.1001

## **FRESA PCD CON CORPO IN HM PER ESEGUIRE SENZA LUBRIFICAZIONE ASOLE E CANALI SU PROFILI DI ALLUMINIO – VERSIONE CORTA**

 **PCD GROOVING AND COUNTER-SINKING ROUTER BIT WITH HW BODY FOR PROCESSING ALUMINIUM PROFILES WITHOUT LUBRICATION – SHORT VERSION**

 **FRESA PCD CON CUERPO EN WIDIA PARA REALIZAR RANURAS Y CANALES EN PERFILES DE ALUMINIO SIN LUBRICACIÓN - VERSIÓN CORTA**

 **FRAISE PCD AVEC CORPS HW POUR LA RÉALISATION SANS LUBRIFICATION DE RAINURES ET DE CANAUX DANS DES PROFILS EN ALUMINIUM - VERSION COURTE**



| Articolo /Article<br>Artículo / Article | Ø  | LU/LOC<br>LDC/LDC | LT/TL<br>LT/TL | PDL/PD<br>PDP/PDT | Att.Ø/ShankØ<br>EjeØ/ShankØ | Z |
|-----------------------------------------|----|-------------------|----------------|-------------------|-----------------------------|---|
| 8P.1001-5X8Z1                           | 5  | 8                 | 80             | 32                | 6                           | 1 |
| 8P.1001-6X8Z1                           | 6  | 8                 | 80             | 32                | 6                           | 1 |
| 8P.1001-7X8Z1                           | 7  | 8                 | 80             | 32                | 8                           | 1 |
| 8P.1001-8X8Z1                           | 8  | 8                 | 80             | 32                | 8                           | 1 |
| 8P.1001-8X8Z2                           | 8  | 8                 | 80             | 32                | 8                           | 2 |
| 8P.1001-10X10Z1                         | 10 | 10                | 80             | 32                | 10                          | 1 |
| 8P.1001-10X10Z2                         | 10 | 10                | 80             | 32                | 10                          | 2 |
| 8P.1001-10X15Z2                         | 10 | 15                | 80             | 32                | 10                          | 2 |
| 8P.1001-12X10Z1                         | 12 | 10                | 80             | 32                | 12                          | 1 |
| 8P.1001-12X10Z2                         | 12 | 10                | 80             | 32                | 12                          | 2 |
| 8P.1001-12X15Z2                         | 12 | 15                | 80             | 32                | 12                          | 2 |

Parametri di lavoro indicativi: RPM 14.000 e velocità di avanzamento su richiesta.

Indicative processing parameters: RPM 14.000 and feed-speed on request.

Parámetros indicativos de trabajo: RPM 14.000 y velocidad de avance a petición.

Paramètres de traitement indicatifs : RPM 14.000 et feed-speed sur demande.

**Fresa in diamante policristallino saldobrasato su corpo in HM per lavorazione di foratura e fresatura SENZA LUBRIFICAZIONE su profilati di alluminio per il settore del serramento, una combinazione vincente per avere il massimo delle prestazioni con la massima qualità e durata!!!**

- PCD router bit with HW body for drilling and milling aluminium profiles without lubrication for the door and window sector, a winning combination for high performance and durability!!!

- Fresa en PCD con cuerpo en widia para taladrar y fresar en seco perfiles de aluminio para el sector de puertas y ventanas, una combinación ganadora para un alto rendimiento y durabilidad.

- Fraise PCD avec corps en carbure de tungstène pour le perçage et le fraisage à sec de profilés en aluminium pour le secteur des portes et fenêtres, une combinaison gagnante pour des performances et une durabilité élevée

**Quantità minima ordine / MOQ:**

**2 pezzi / 2 pieces / 2 piezas / 2 pièces**

LU = Lunghezza Utile

LOC = Length Of Cut

LDC = Longitud De Corte

LDC = Longueur De Coupe

LT = Lunghezza Totale

TL = Total Length

LT = Longitud Total

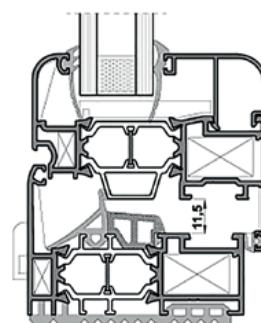
LT = Longueur Totale

PDL = Profondità di lavorazione

PD = Processing depth

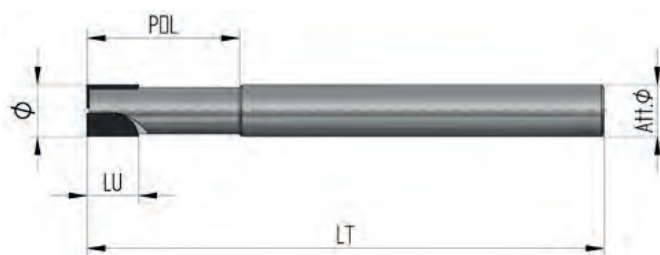
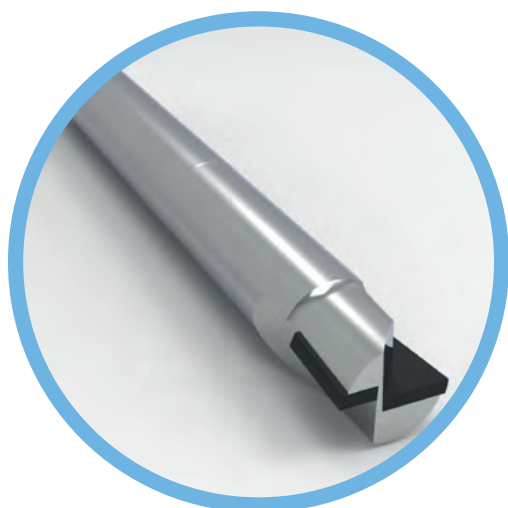
PDP = Profundidad de procesamiento

PDT = Profondeur de traitement



# 8P.1002

- 🇮🇹 **FRESA PCD CON CORPO IN HM PER ESEGUIRE SENZA LUBRIFICAZIONE ASOLE E CANALI SU PROFILI DI ALLUMINIO – VERSIONE LUNGA**
- 🇬🇧 PCD GROOVING AND COUNTER-SINKING ROUTER BIT WITH HW BODY FOR PROCESSING ALUMINIUM PROFILES WITHOUT LUBRICATION – LONG VERSION
- 🇪🇸 FRESA PCD CON CUERPO EN WIDIA PARA REALIZAR RANURAS Y CANALES EN PERFILES DE ALUMINIO SIN LUBRICACIÓN - VERSIÓN LARGA
- 🇫🇷 FRAISE PCD AVEC CORPS HW POUR LA RÉALISATION SANS LUBRIFICATION DE RAINURES ET DE CANAUX DANS DES PROFILS EN ALUMINIUM - VERSION LONGUE



| Articolo /Article<br>Artículo / Article | Ø  | LU/LOC<br>LDC/LDC | LT/TL<br>LT/LT | PDL/PD<br>PDP/PDT | Att.Ø/<br>ShankØ<br>EjeØ/<br>ShankØ | Z |
|-----------------------------------------|----|-------------------|----------------|-------------------|-------------------------------------|---|
| 8P.1002-8X8Z1                           | 8  | 8                 | 100            | 52                | 8                                   | 1 |
| 8P.1002-8X8Z2                           | 8  | 8                 | 100            | 52                | 8                                   | 2 |
| 8P.1002-10X10Z1                         | 10 | 10                | 100            | 52                | 10                                  | 1 |
| 8P.1002-10X10Z2                         | 10 | 10                | 100            | 52                | 10                                  | 2 |
| 8P.1002-10X15Z2                         | 10 | 15                | 100            | 52                | 10                                  | 2 |
| 8P.1002-12X10Z1                         | 12 | 10                | 100            | 52                | 12                                  | 1 |
| 8P.1002-12X10Z2                         | 12 | 10                | 100            | 52                | 12                                  | 2 |
| 8P.1002-12X15Z2                         | 12 | 15                | 100            | 52                | 12                                  | 2 |

Parametri di lavoro indicativi: RPM 14.000 e velocità di avanzamento su richiesta.  
*Indicative processing parameters: RPM 14.000 and feed-speed on request.*  
*Parámetros indicativos de trabajo: RPM 14.000 y velocidad de avance a petición.*  
*Paramètres de traitement indicatifs : RPM 14.000 et feed-speed sur demande.*

**Fresa in diamante policristallino saldobrasato su corpo in HM per lavorazione di foratura e fresatura SENZA LUBRIFICAZIONE su profilati di alluminio per il settore del serramento, una combinazione vincente per avere il massimo delle prestazioni con la massima qualità e durata!!!**

- PCD router bit with HW body for drilling and milling aluminium profiles without lubrication for the door and window sector, a winning combination for high performance and durability!!!

- Fresa en PCD con cuerpo en widia para taladrar y fresar en seco perfiles de aluminio para el sector de puertas y ventanas, una combinación ganadora para un alto rendimiento y durabilidad.

- Fraise PCD avec corps en carbure de tungstène pour le perçage et le fraisage à sec de profilés en aluminium pour le secteur des portes et fenêtres, une combinaison gagnante pour des performances et une durabilité élevée

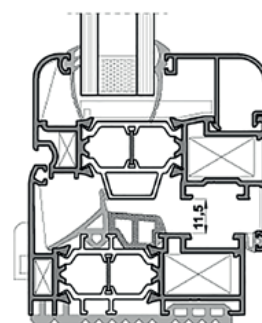
**Quantità minima ordine / MOQ:**

**2 pezzi / 2 pieces / 2 piezas / 2 pièces**

LU = Lunghezza Utile  
 LOC = Lenght Of Cut  
 LDC = Longitud De Corte  
 LDC = Longueur De Coupe

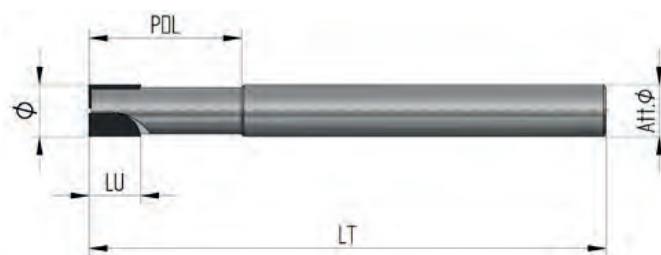
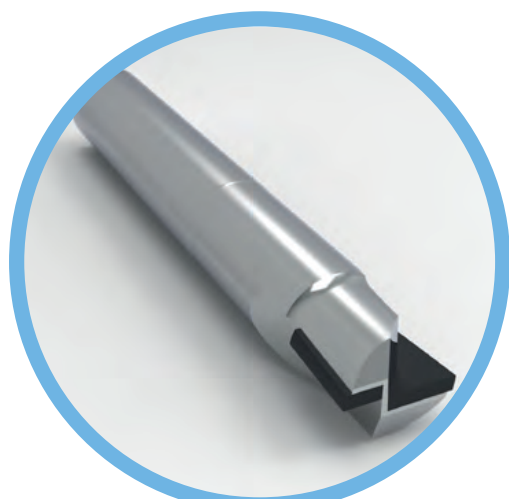
LT = Lunghezza Totale  
 TL = Total Lenght  
 LT = Longitud Total  
 LT = Longueur Totale

PDL = Profondità di lavorazione  
 PD = Processing depth  
 PDP = Profundidad de procesamiento  
 PDT = Profondeur de traitement



# 8P.1003

- FRESA PCD CON CORPO IN MATERIALE SPECIALE PER ESEGUIRE SENZA LUBRIFICAZIONE ASOLE E CANALI SU PROFILI IN ALLUMINIO – VERSIONE CORTA**
- PCD GROOVING AND COUNTER-SINKING ROUTER BIT WITH SPECIAL MATERIAL BODY FOR PROCESSIN ALUMINIUM PROFILES WITHOUT LUBRICATION – SHORT VERSION.**
- FRESA PCD CON CUERPO DE MATERIAL ESPECIAL PARA REALIZAR RANURAS Y CANALES EN PERFILES DE ALUMINIO SIN LUBRICACIÓN - VERSIÓN CORTA.**
- FRAISE PCD AVEC CORPS EN MATÉRIAU SPÉCIAL POUR LA REALISATION SANS LUBRIFICATION DE RAINURES ET DE CANAUX DANS DES PROFILS EN ALUMINIUM – VERSION COURTE.**



| Articolo /Article<br>Artículo / Article | Ø  | LU/LOC<br>LDC/LDC | LT/TL<br>LT/LT | PDL/PD<br>PDP/PDT | Att.Ø/ShankØ<br>EjeØ/ShankØ | Z |
|-----------------------------------------|----|-------------------|----------------|-------------------|-----------------------------|---|
| 8P.1003-5X8Z1                           | 5  | 8                 | 80             | 32                | 6                           | 1 |
| 8P.1003-6X8Z1                           | 6  | 8                 | 80             | 32                | 6                           | 1 |
| 8P.1003-7X8Z1                           | 7  | 8                 | 80             | 32                | 8                           | 1 |
| 8P.1003-8X8Z1                           | 8  | 8                 | 80             | 32                | 8                           | 1 |
| 8P.1003-8X8Z2                           | 8  | 8                 | 80             | 32                | 8                           | 2 |
| 8P.1003-10X10Z1                         | 10 | 10                | 80             | 32                | 10                          | 1 |
| 8P.1003-10X10Z2                         | 10 | 10                | 80             | 32                | 10                          | 2 |
| 8P.1003-10X15Z2                         | 10 | 15                | 80             | 32                | 10                          | 2 |
| 8P.1003-12X10Z1                         | 12 | 10                | 80             | 32                | 12                          | 1 |
| 8P.1003-12X10Z2                         | 12 | 10                | 80             | 32                | 12                          | 2 |
| 8P.1003-12X15Z2                         | 12 | 15                | 80             | 32                | 12                          | 2 |

Parametri di lavoro indicativi: RPM 14.000 e velocità di avanzamento su richiesta.

*Indicative processing parameters: RPM 14.000 and feed-speed on request.*

*Parámetros indicativos de trabajo: RPM 14.000 y velocidad de avance a petición.*

*Paramètres de traitement indicatifs : RPM 14.000 et feed-speed sur demande.*

**Fresa in diamante idonea per ELIMINARE LE VIBRAZIONI durante la lavorazione di foratura e fresatura SENZA LUBRIFICAZIONE su profilati di alluminio per il settore del serramento, una combinazione vincente per avere il massimo delle prestazioni con la massima qualità e durata!!!**

PCD router bit designed to ELIMINATE VIBRATION during drilling and milling processings WITHOUT LUBRICATION on aluminium profiles for the door and window sector, a winning combination for high performance and durability!!!

Fresa de diamante idónea para ELIMINAR LA VIBRACIÓN durante las operaciones de taladrado y fresado SIN LUBRICACIÓN de los perfiles de aluminio para el sector de puertas y ventanas, una combinación ganadora para un alto rendimiento y durabilidad.

Fraise en diamant adaptée à l'ÉLIMINATION DES VIBRATIONS pendant des opérations de perçage et de fraisage SANS LUBRIFICATION sur les profils en aluminium pour le secteur des portes et fenêtres, une combinaison gagnante pour des performances et une durabilité élevée

**LU = Lunghezza Utile**

LOC = Lenght Of Cut

LDC = Longitud De Corte

LDC = Longueur De Coupe

**LT = Lunghezza Totale**

TL = Total Lenght

LT = Longitud Total

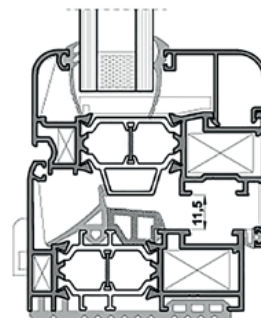
LT = Longueur Totale

**PDL = Profondità di lavorazione**

PD = Processing depth

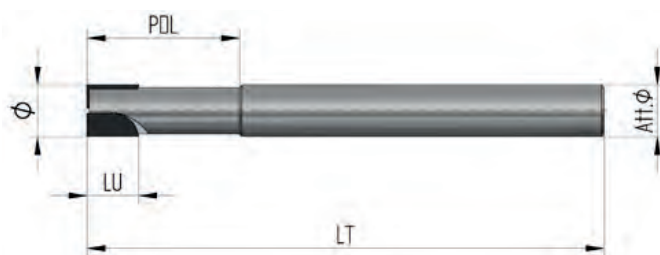
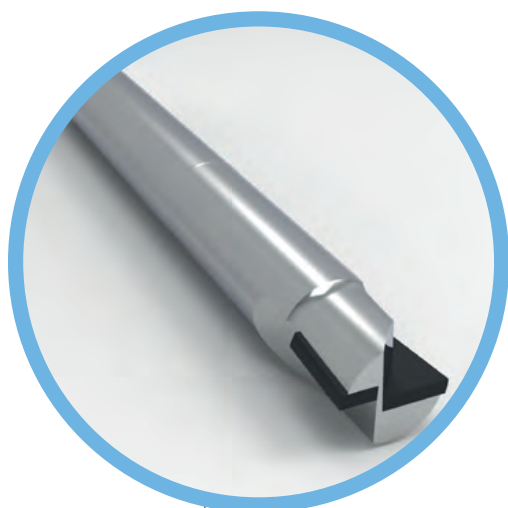
PDP = Profundidad de procesamiento

PDT = Profondeur de traitement



# 8P.1004

- 🇮🇹 **FRESA PCD CON CORPO IN MATERIALE SPECIALE PER ESEGUIRE SENZA LUBRIFICAZIONE ASOLE E CANALI SU PROFILI IN ALLUMINIO – VERSIONE LUNGA**
- 🇬🇧 **PCD GROOVING AND COUNTER-SINKING ROUTER BIT WITH SPECIAL MATERIAL BODY FOR PROCESSIN ALUMINIUM PROFILES WITHOUT LUBRICATION – LONG VERSION.**
- 🇪🇸 **FRESA PCD CON CUERPO DE MATERIAL ESPECIAL PARA REALIZAR RANURAS Y CANALES EN PERFILES DE ALUMINIO SIN LUBRICACIÓN - VERSIÓN LARGA.**
- 🇫🇷 **FRAISE PCD AVEC CORPS EN MATÉRIAU SPÉCIAL POUR LA REALISATION SANS LUBRIFICATION DE RAINURES ET DE CANAUX DANS DES PROFILS EN ALUMINIUM – VERSION LONGUE.**



| Articolo /Article<br>Artículo / Article | Ø  | LU/LOC<br>LDC/LDC | LT/TL<br>LT/LT | PDL/PD<br>PDP/PDT | Att.Ø/<br>ShankØ<br>EjeØ/<br>ShankØ | Z |
|-----------------------------------------|----|-------------------|----------------|-------------------|-------------------------------------|---|
| 8P.1004-8X8Z1                           | 8  | 8                 | 100            | 52                | 8                                   | 1 |
| 8P.1004-8X8Z2                           | 8  | 8                 | 100            | 52                | 8                                   | 2 |
| 8P.1004-10X10Z1                         | 10 | 10                | 100            | 52                | 10                                  | 1 |
| 8P.1004-10X10Z2                         | 10 | 10                | 100            | 52                | 10                                  | 2 |
| 8P.1004-10X15Z2                         | 10 | 15                | 100            | 52                | 10                                  | 2 |
| 8P.1004-12X10Z1                         | 12 | 10                | 100            | 52                | 12                                  | 1 |
| 8P.1004-12X10Z2                         | 12 | 10                | 100            | 52                | 12                                  | 2 |
| 8P.1004-12X15Z2                         | 12 | 15                | 100            | 52                | 12                                  | 2 |

Parametri di lavoro indicativi: RPM 14.000 e velocità di avanzamento su richiesta.

*Indicative processing parameters: RPM 14.000 and feed-speed on request.*

*Parámetros indicativos de trabajo: RPM 14.000 y velocidad de avance a petición.*

*Paramètres de traitement indicatifs : RPM 14.000 et feed-speed sur demande.*

**Fresa in diamante idonea per ELIMINARE LE VIBRAZIONI durante la lavorazione di foratura e fresatura SENZA LUBRIFICAZIONE su profilati di alluminio per il settore del serramento, una combinazione vincente per avere il massimo delle prestazioni con la massima qualità e durata!!!**

PCD router bit designed to **ELIMINATE VIBRATION** during drilling and milling processings **WITHOUT LUBRICATION** on aluminium profiles for the door and window sector, a winning combination for high performance and durability!!!

Fresa de diamante idónea para **ELIMINAR LA VIBRACIÓN** durante las operaciones de taladrado y fresado **SIN LUBRICACIÓN** de los perfiles de aluminio para el sector de puertas y ventanas, una combinación ganadora para un alto rendimiento y durabilidad.

Fraise en diamant adaptée à l'**ÉLIMINATION DES VIBRATIONS** pendant des opérations de perçage et de fraisage **SANS LUBRIFICATION** sur les profils en aluminium pour le secteur des portes et fenêtres, une combinaison gagnante pour des performances et une durabilité élevée

**LU = Lunghezza Utile**

LOC = Lenght Of Cut

LDC = Longitud De Corte

LDC = Longueur De Coupe

**LT = Lunghezza Totale**

TL = Total Lenght

LT = Longitud Total

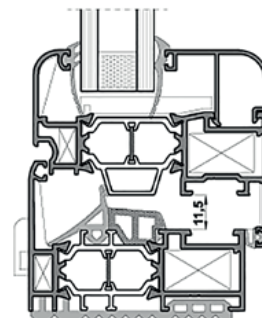
LT = Longueur Totale

**PDL = Profondità di lavorazione**

PD = Processing depth

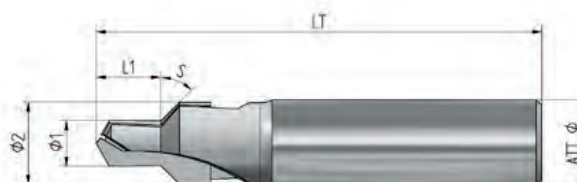
PDP = Profundidad de procesamiento

PDT = Profondeur de traitement



# 8P.1011

-  **PUNTA IN PCD A DOPPIO DIAMETRO PER FORARE E SVASARE PROFILATI DI ALLUMINIO SENZA LUBRIFICAZIONE**
-  **PCD DOUBLE DIAMETER ROUTER BIT FOR DRILLING AND COUNTER-SINKING ALUMINIUM PROFILES WITHOUT LUBRICATION**
-  **BROCA PCD DE DOBLE DIÁMETRO PARA TALADRAR Y AVELLANAR PERFILES DE ALUMINIO SIN LUBRICACIÓN**
-  **MÈCHE EN PCD À DOUBLE DIAMÈTRE POUR LE PERÇAGE ET LE CHANFREINAGE DE PROFILÉS EN ALUMINIUM SANS LUBRIFICATION**



| Articolo / Article<br>Artículo / Article | Ø1 | Ø2 | L1 | LT | S | Att.Ø/ShankØ<br>EjeØ/ShankØ |
|------------------------------------------|----|----|----|----|---|-----------------------------|
| 8P.1011                                  |    |    |    |    |   |                             |

## UTENSILI REALIZZATI SU RICHIESTA – COMPILARE TUTTE LE QUOTE INDICATE

Tools made on request – fill in all the quotes indicated .

Herramientas hechas a pedido – llene todas las cuotas indicadas.

Outils fabriqués sur demande - veuillez remplir toutes les dimensions indiquées.

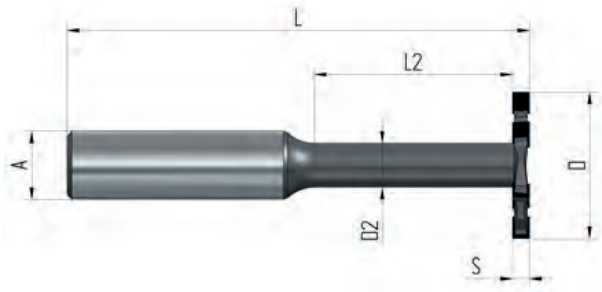
# 8P.1017

 FRESA A “T” IN PCD PER ASOLARE PROFILATI IN ALLUMINIO

 PCD T-SLOT PCD FOR ALUMINIUM PROFILES

 FRESA “T” PCD PARA EL RANURADO DE PERFILES DE ALUMINIO

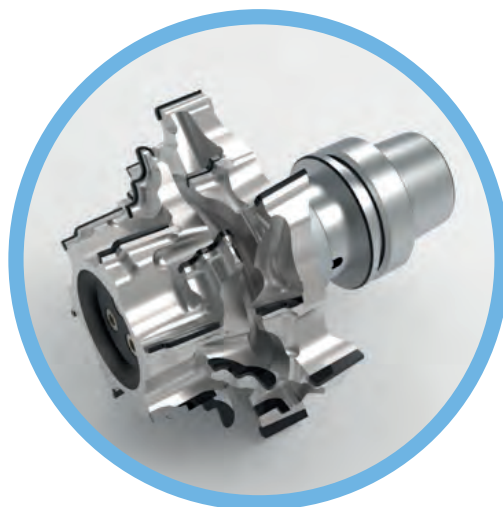
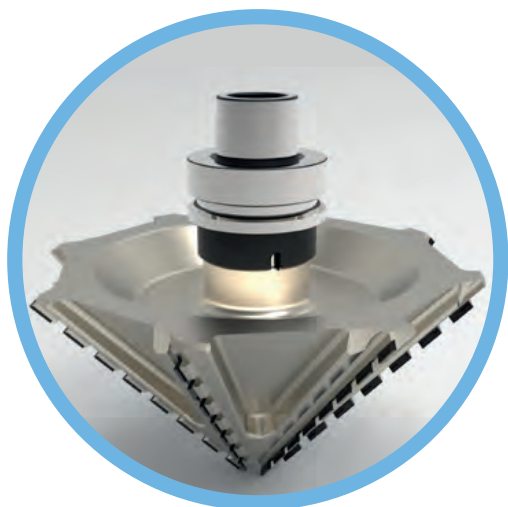
 FRAISE “T” EN PCD POUR LE RAINURAGE DE PROFILS EN ALUMINIUM”



| Articolo / Article<br>Articulo / Article | D | D2 | S | L | L2 | A |
|------------------------------------------|---|----|---|---|----|---|
| 8P.1017                                  |   |    |   |   |    |   |

# 8F.1001

- 🇮🇹 **FRESA PCD SAGOMATA PER INTESTARE E SMUSSARE SENZA LUBRIFICAZIONE PROFILATI DI ALLUMINIO PER CENTRI DI LAVORO, MACCHINE CNC**
- 🇬🇧 **PCD CHAMFERING AND END-MILLING PROFILED CUTTER FOR PROCESSING ALUMINIUM PROFILES WITHOUT LUBRICATION FOR CNC MACHINING CENTERS**
- 🇪🇸 **FRESA ESPECIAL PCD PARA BISELAR Y RETESTAR SIN LUBRICACIÓN DE PERFILES DE ALUMINIO PARA CENTROS DE MECANIZADO CNC**
- 🇫🇷 **FRAISE PCD PROFILÉE POUR CHANFREINER ET FRAISER SANS LUBRIFICATION DE PROFILÉS EN ALUMINIUM POUR LES MACHINES À COMMANDE NUMÉRIQUE**



| CODICE<br>CODE / CODIGO<br>CODE | Ø | S | Z | Listino<br>Price List / Lista de Precios<br>Liste des Prix |
|---------------------------------|---|---|---|------------------------------------------------------------|
| 8F.1001                         |   |   |   | SU RICHIESTA<br>ON REQUEST / A PEDIDO<br>SUR DEMANDE       |

**Inviare i dati per l'offerta con file del profilo in formato DWG o DXF a: [commerciale@utensiltecnica.com](mailto:commerciale@utensiltecnica.com)**

- Send the data for the offer with profile files in DWG or DXF format to: [export@utetrading.com](mailto:export@utetrading.com)
- Envíe los datos para la oferta con los files de perfil en formato DWG o DXF a: [export@utetrading.com](mailto:export@utetrading.com)
- Envoyez les données pour l'offre avec des files de profil au format DWG ou DXF à : [export@utetrading.com](mailto:export@utetrading.com)".

## 8F.1002

-  **GRUPPO FRESA PCD AD INTESTARE PROFILI DI ALLUMINIO SENZA LUBRIFICAZIONE PER CENTRI DI LAVORO, MACCHINE CNC**
-  **CUTTER SET FOR PROCESSING ALUMINIUM PROFILES WITHOUT LUBRICATION FOR CNC MACHINING CENTERS**
-  **GRUPO FRESA PCD PARA RETESTAR SIN LUBRICACIÓN DE PERFILES DE ALUMINIO PARA CENTROS DE MECANIZADO CNC**
-  **JEU DE FRAISE PCD POUR FRAISER SANS LUBRIFICATION DE PROFILÉS EN ALUMINIUM POUR LES MACHINES À COMMANDE NUMÉRIQUE**



| <b>CODICE</b><br>CODE / CODIGO<br>CODE | <b>Ø</b> | <b>S</b> | <b>Z</b> | <b>Listino</b><br>Price List / Lista de Precios<br>Liste des Prix         |
|----------------------------------------|----------|----------|----------|---------------------------------------------------------------------------|
| <b>8F.1002</b>                         |          |          |          | <b>SU RICHIESTA</b><br><b>ON REQUEST / A PEDIDO</b><br><b>SUR DEMANDE</b> |

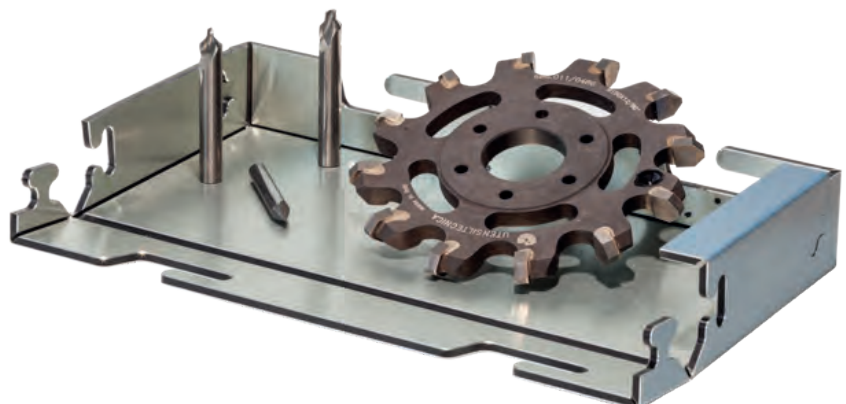
**Inviare i dati per l'offerta con file del profilo in formato DWG o DXF a: [commerciale@utensiltecnica.com](mailto:commerciale@utensiltecnica.com)**

- Send the data for the offer with profile files in DWG or DXF format to: [export@utetrading.com](mailto:export@utetrading.com)
- Envíe los datos para la oferta con los files de perfil en formato DWG o DXF a: [export@utetrading.com](mailto:export@utetrading.com)
- Envoyez les données pour l'offre avec des files de profil au format DWG ou DXF à : [export@utetrading.com](mailto:export@utetrading.com)".



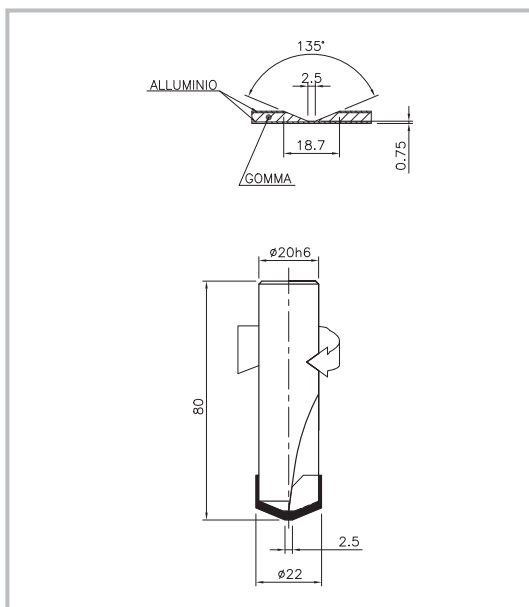
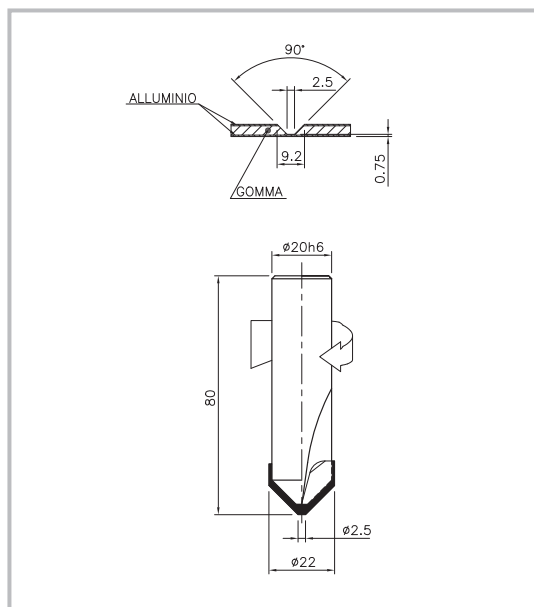
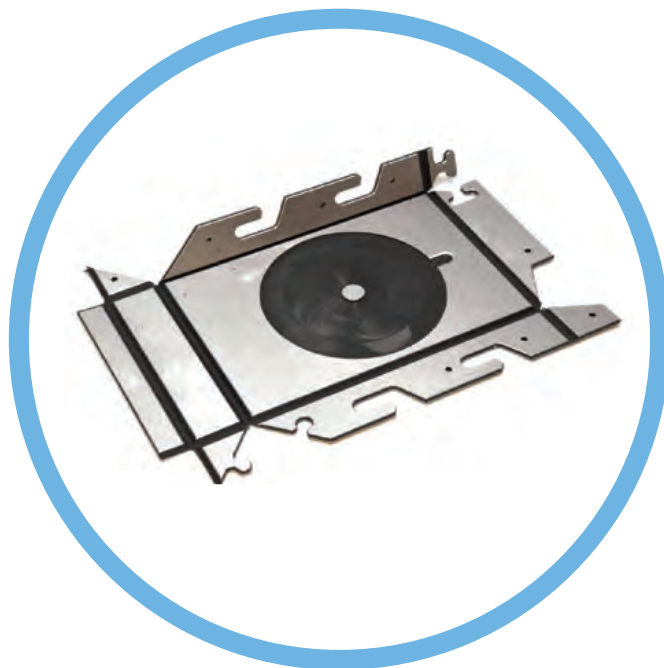
## Utensili per la lavorazione di Pannelli in Alluminio Composito (Alucobond®-Alpolic®-Trespa® Ecc.) su macchine Cnc

Tools for processing composite Aluminium (Alucobond®-Alpolic®-Trespa® etc.) panels on CNC machines.  
Herramientas para procesar paneles de Aluminio compuesto (Alucobond®-Alpolic®-Trespa® ecc.) en máquinas CNC.  
Outils pour l'usinage de panneaux composites en Aluminium (Alucobond®-Alpolic®-Trespa® ecc.) sur des machines CNC.



# 8P.3001

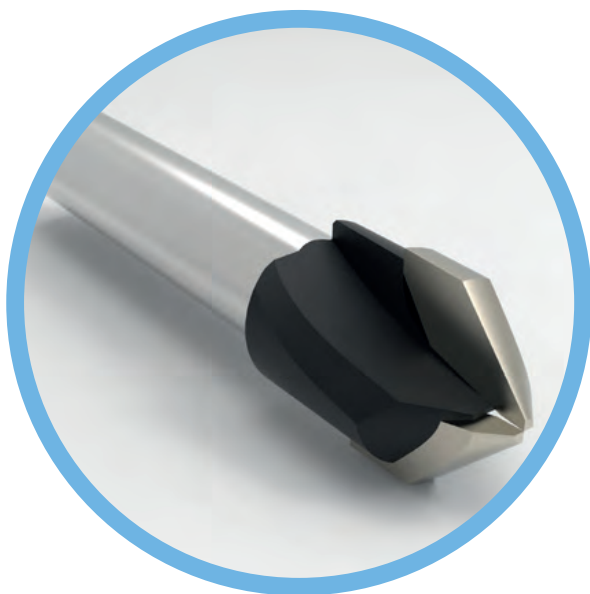
- 🇮🇹 **FRESE PCD PER INCISIONI SU PANNELLI ALLUMINIO COMPOSITO (ALUCOBOND® - DIABOND®-ALPOLIC® LARSON® - REYNOBOND® - ALUBOND® - ALBOND® - TRESPA® - STACBOND® ecc.) SU MACCHINE CNC**
- 🇬🇧 **PCD V-GROOVING CUTTERS FOR PROCESSING COMPOSITE ALUMINIUM (ALUCOBOND®-DIABOND®-ALPOLIC®-LARSON®-REYNOBOND®-ALUBOND®-ALBOND®-TRESPA®-STACBOND® ecc.) PANELS ON CNC MACHINING CENTERS**
- 🇪🇸 **FRESAS EN PCD PARA INCISIONES DE PANELES DE ALUMINIO COMPUESTO (ALUCOBOND®-DIABOND®-ALPOLIC®-LARSON®-REYNOBOND®-ALUBOND®-ALBOND®-TRESPA®-STACBOND® ecc.) PARA CENTROS DE TRABAJO**
- 🇫🇷 **FRAISES À RAINURES EN V EN PCD POUR L'USINAGE DE PANNEAUX COMPOSITES EN ALUMINIUM (ALUCOBOND®-DIABOND®-ALPOLIC®-LARSON®-REYNOBOND®-ALUBOND®-ALBOND®-TRESPA®-STACBOND® ecc.) SUR DES MACHINES À COMMANDE NUMÉRIQUE**



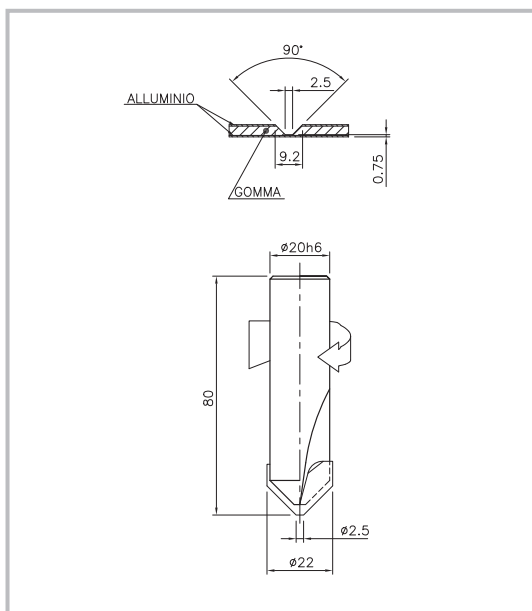
| Articolo / Article<br>Articulo / Article | Angolo in °/Angle °<br>Angulo en °/ Angle en ° | Z= |
|------------------------------------------|------------------------------------------------|----|
| 8P.3001-030                              | 30°                                            | 2  |
| 8P.3001/090                              | 90°                                            | 2  |
| 8P.3001/135                              | 135°                                           | 2  |

# 0.53

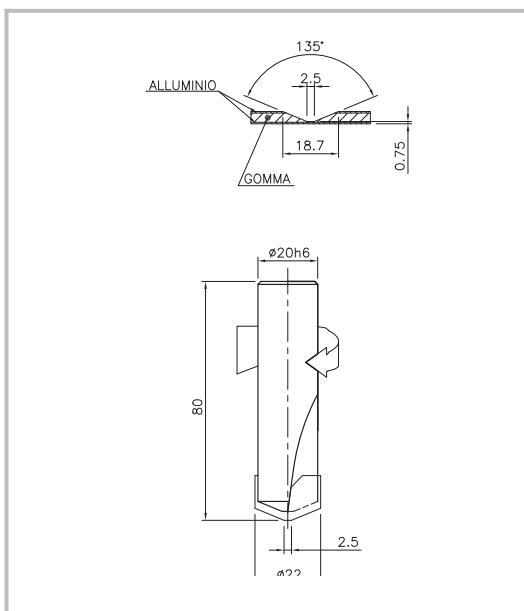
- 🇮🇹 **PUNTE IN HM SAGOMATE Z=2 PER INCISIONI SU PANNELLI DI ALLUMINIO COMPOSITO**
- 🇬🇧 **PROFILED V-GROOVING HW ROUTER BITS Z=2 FOR PROCESSING COMPOSITE ALUMINIUM PANELS**
- 🇪🇸 **FRESAS ESPECIALES EN WIDIA Z=2 PARA INCISIONES DE PANELES DE ALUMINIO COMPUESTO**
- 🇫🇷 **FRAISES PROFILÉES À RAINURES EN V EN CARBURE SOLIDE Z=2 POUR L'USINAGE DE PANNEAUX COMPOSITES EN ALUMINIUM**



0.53/01



0.53/02



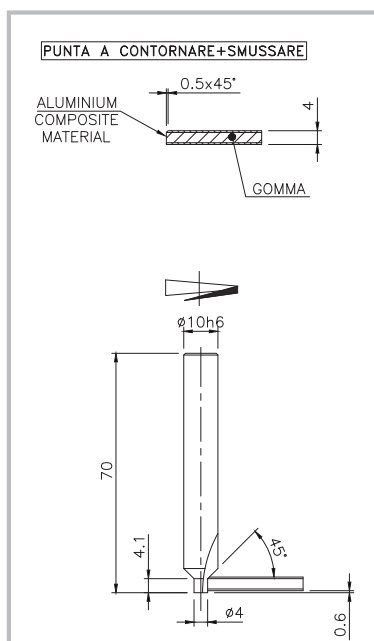
| Articolo / Article<br>Artículo / Article | Ø     | Att.Ø/ShankØ<br>EjeØ/ShankØ | Angolo in °/Angle °<br>Angulo en °/Angle en ° |
|------------------------------------------|-------|-----------------------------|-----------------------------------------------|
| 0.53/01                                  | 22x80 | 20                          | 90°                                           |
| 0.53/02                                  | 22x80 | 20                          | 135°                                          |

# 0.54

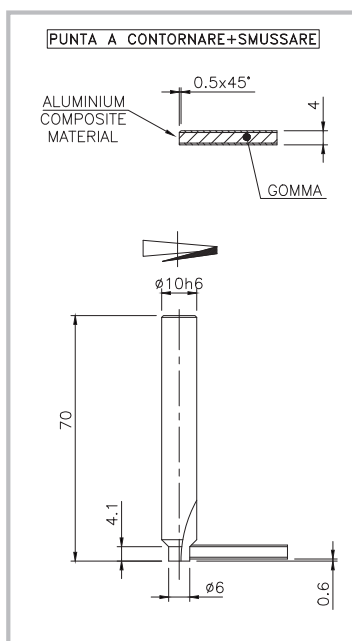
- 🇮🇹 **PUNTE IN PCD/HM SAGOMATE Z=2 PER SMUSSARE E CONTORNARE PANNELLI DI ALLUMINIO COMPOSITO**
- 🇬🇧 **PROFIED PCD/HW ROUTER BITS Z=2 FOR BEVELING AND CONTOURING COMPOSITE ALUMINIUM PANELS**
- 🇪🇸 **BROCAS ESPECIAL EN PCD/WIDIA Z=2 PARA EL BISELADO Y EL CONTORNO DE LOS PANELES DE ALUMINIO COMPUESTO**
- 🇫🇷 **MÈCHES EN PCD/CARBURE SOLIDE PROFILÉES Z=2 POUR LE BISEAUTAGE ET LE PROFILAGE DES PANNEAUX COMPOSITES EN ALUMINIUM**



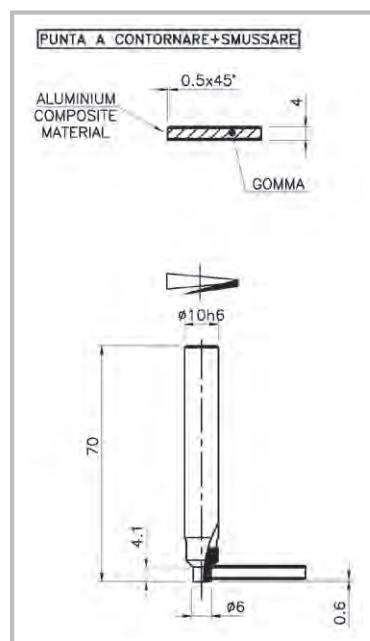
0.54/01



0.54/02



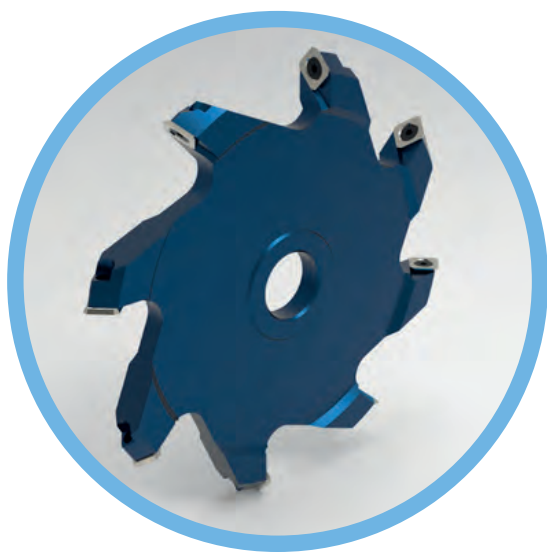
0.54/03



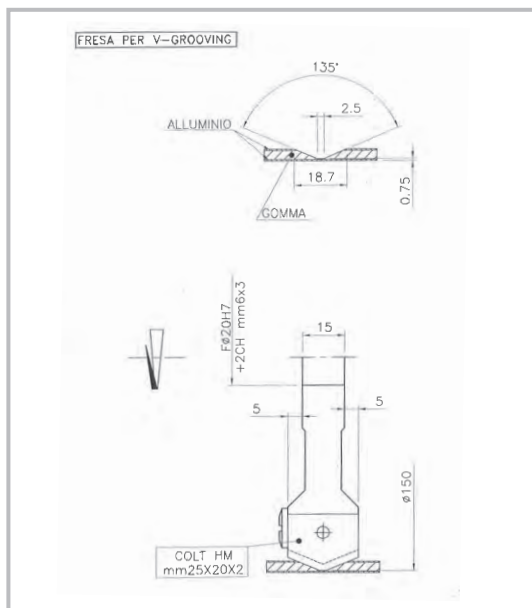
| Articolo / Article<br>Articulo / Article | Ø    | Att.Ø/ShankØ<br>EjeØ/ShankØ |     |
|------------------------------------------|------|-----------------------------|-----|
| 0.54/01                                  | 4x70 | 10                          |     |
| 0.54/02                                  | 6x70 | 10                          |     |
| 0.54/03 DIA H4                           | 6x70 | 10                          | Z=1 |

## 0.55

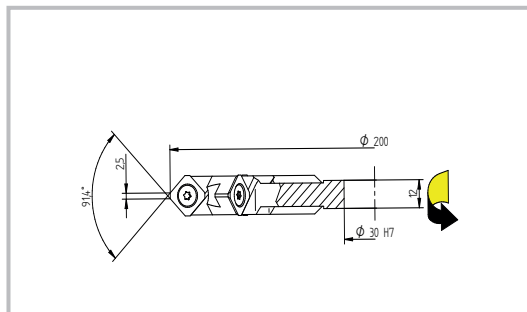
- 🇮🇹 **TESTE PORTACOLTELLI HM SAGOMATE PER INCISIONI SU PANNELLI DI ALLUMINIO COMPOSITO**
- 🇬🇧 **PROFILED V-GROOVING HW CUTTERHEADS FOR PROCESSING COMPOSITE ALUMINIUM PANELS**
- 🇪🇸 **CABEZALES DE CORTE PERFILADAS EN WIDIA PARA INCISIONES DE PANELES DE ALUMINIO COMPUEST**
- 🇫🇷 **TÊTES DE COUTEAUX PROFILÉES À RAINURES EN V EN CARBURE SOLIDE POUR L'USINAGE DE PANNEAUX COMPOSITES EN ALUMINIUM**



0.55/01



0.55/02



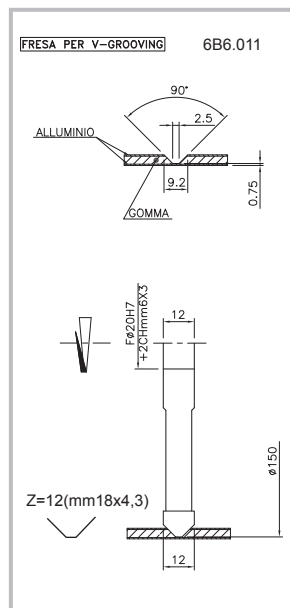
| Articolo / Article<br>Artículo / Article | Ø      | F Ø | Z  | Angolo in °/Angle °<br>Angulo en °/ Angle en ° |
|------------------------------------------|--------|-----|----|------------------------------------------------|
| 0.55/01                                  | 150x22 | 20  | 12 | 135°                                           |
| 0.55/02                                  | 200    | 20  | 8  | 91,4                                           |

# 0.56

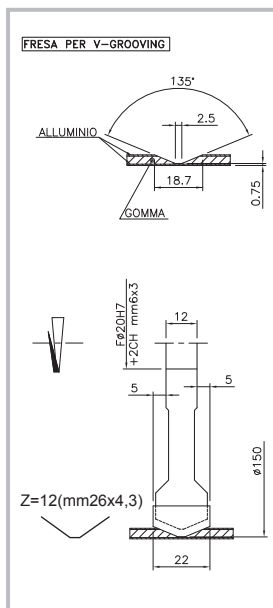
- 🇮🇹 **FRESE IN PCD/HM SAGOMATE Z=12 PER INCISIONI SU PANNELLI DI ALLUMINIO COMPOSITO**
- 🇬🇧 **PROFIED V-GROOVING PCD/HW CUTTERS Z=12 FOR PROCESSING COMPOSITE ALUMINIUM PANELS**
- 🇪🇸 **FRESAS ESPECIAL EN PCD/WIDIA Z=12 PARA INCISIONES DE PANELES DE ALUMINIO COMPUESTO**
- 🇫🇷 **FRAISES EN PCD/CARBURE SOLIDE PROFILÉES Z=12 POUR LE BISEAUTAGE ET LE PROFILAGE DES PANNEAUX COMPOSITES EN ALUMINIUM**



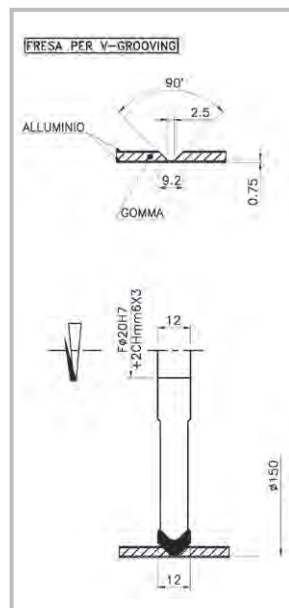
0.56/01



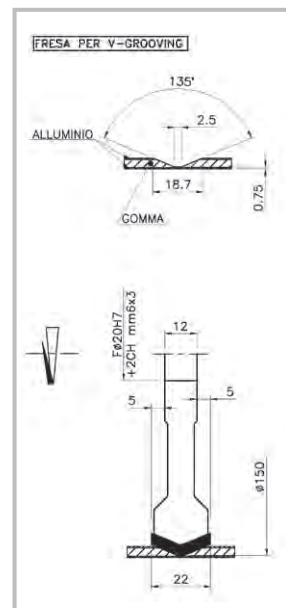
0.56/02



0.56/01 DIA



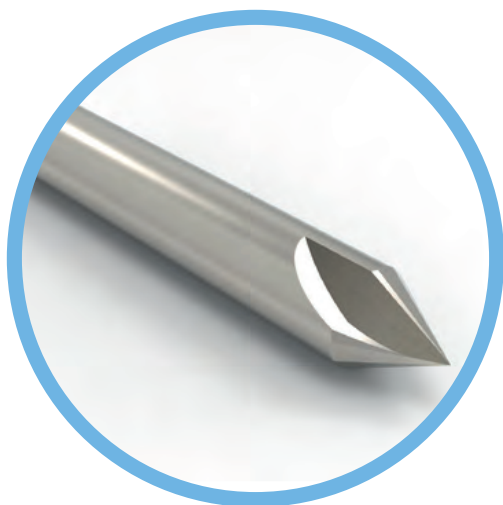
0.56/02 DIA



| Articolo / Article<br>Artículo / Article | Ø      | Ø Foro/Bore Ø<br>Ø Taladro/Ø Trou | Z  | Angolo in °/Angle °<br>Angulo en °/ Angle en ° |
|------------------------------------------|--------|-----------------------------------|----|------------------------------------------------|
| 0.56/01 HM                               | 150x12 | 20                                | 12 | 90°                                            |
| 0.56/02 HM                               | 150x22 | 20                                | 12 | 135°                                           |
| 0.56/01 DIA                              | 150x12 | 20                                | 12 | 90°                                            |
| 0.56/02 DIA                              | 150x22 | 20                                | 12 | 135°                                           |

## 0.57/01

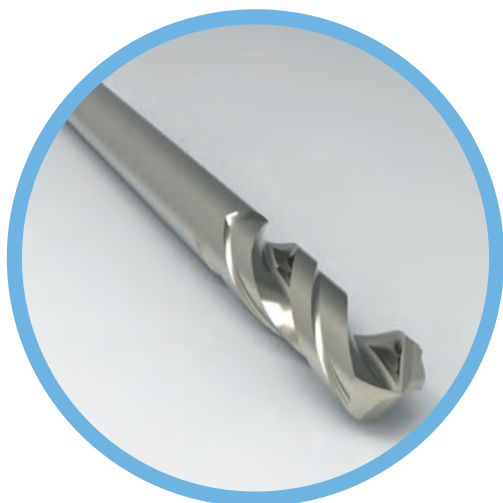
-  **PUNTE IN HM SAGOMATE Z=2 PER ESEGUIRE RIPASSI SU PANNELLI DI ALLUMINIO COMPOSITO**
-  **PROFILED V-GROOVING AND REFINING HW ROUTER BITS Z=2 FOR PROCESSING COMPOSITE ALUMINIUM PANELS**
-  **FRESAS ESPECIALES EN WIDIA Z=2 PARA INCISIONES Y REFINACIONES DE PANELES DE ALUMINIO COMPUESTO**
-  **FRAISES PROFILÉES EN CARBURE SOLIDE Z=2 POUR LES RAFFINAGES ET LES RAINURES EN V DE PANNEAUX COMPOSITES EN ALUMINIUM**



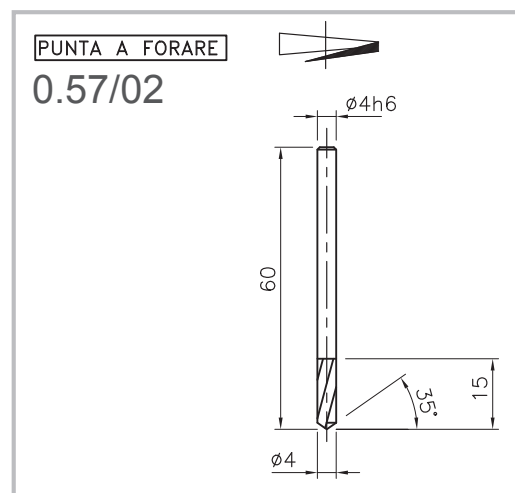
| Articolo / Article<br>Artículo / Article | Ø     | Att.Ø/ShankØ<br>EjeØ/ShankØ |
|------------------------------------------|-------|-----------------------------|
| 0.57/01                                  | 10x60 | 10                          |

## 0.57/02

-  **PUNTE IN HM Z=2 PER FORARE PANNELLI DI ALLUMINIO COMPOSITO**
-  **HW ROUTER BITS FOR DRILLING COMPOSITE ALUMINIUM PANELS**
-  **TALADRAR DE PANELES COMPUESTOS DE ALUMINIO**
-  **MÈCHES EN CARBURE SOLIDE POUR LE PERÇAGE DE PANNEAUX COMPOSITES EN ALUMINIUM**



| Articolo / Article<br>Artículo / Article | Ø       | Att.Ø/ShankØ<br>EjeØ/ShankØ |
|------------------------------------------|---------|-----------------------------|
| 0.57/02                                  | 4x15x60 | 4                           |



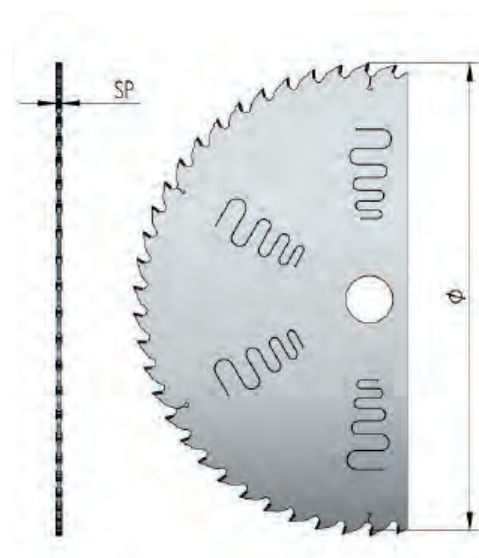
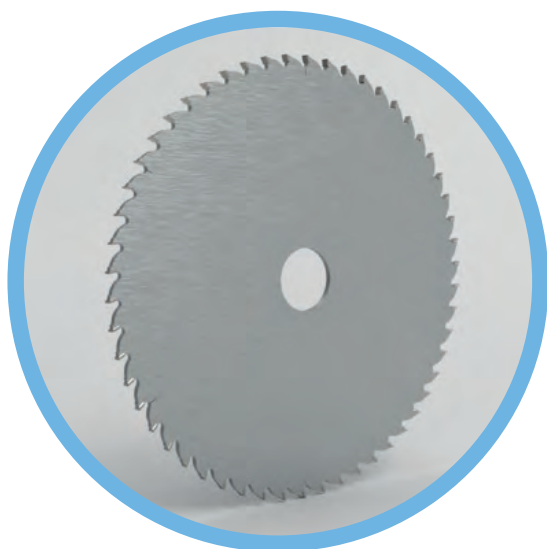
# 0.60

🇮🇹 LAMA IN HW PER TAGLIO E TRONCATURA DI PANNELLI DI ALLUMINIO COMPOSITO

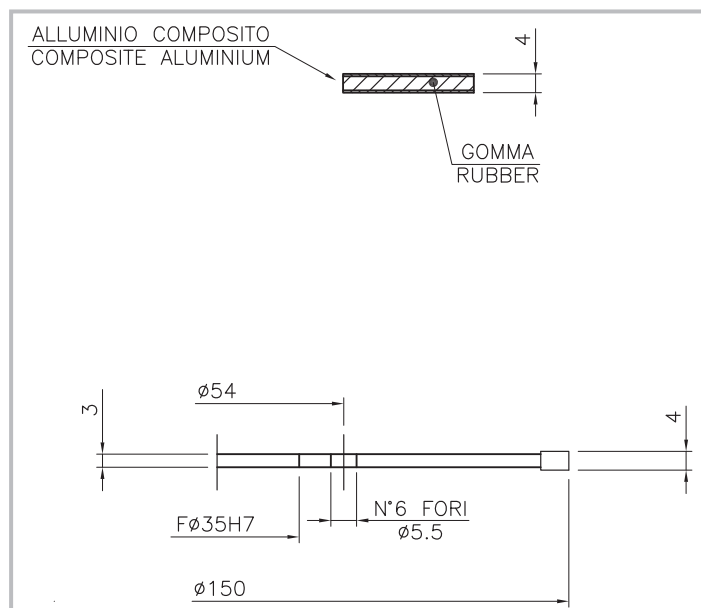
🇬🇧 HW SAW-BLADE FOR CUTTING AND SIZING COMPOSITE ALUMINIUM PANELS

🇪🇸 SIERRA EN WIDIA PARA CORTAR Y DIMENSIONAR PANELES DE ALUMINIO COMPUESTO

🇫🇷 LAME PCD DE COUPE ET TRONÇONNAGE DE PANNEAUX COMPOSITES EN ALUMINIUM



0.60/02



| Articolo / Article<br>Artículo / Article | Ø   | Spessore/Thickness<br>Espesor/Épaisseur | Ø Foro/Bore Ø<br>Ø Taladro/Ø Trou | Z  |
|------------------------------------------|-----|-----------------------------------------|-----------------------------------|----|
| 0.60/01                                  | 150 | 3,5                                     | 30/32/35                          | 24 |
| 0.60/02                                  | 150 | 4,0                                     | 30/32/35                          | 30 |
| 0.60/03                                  | 160 | 2,6                                     | 20                                | 48 |
| 0.60/04                                  | 190 | 2,6                                     | 30                                | 58 |
| 0.60/05                                  | 250 | 3,2                                     | 30+2                              | 60 |
| 0.60/06                                  | 250 | 3,2                                     | 30+2                              | 80 |
| 0.60/07                                  | 300 | 3,2                                     | 30+2                              | 72 |
| 0.60/08                                  | 300 | 3,2                                     | 30+2                              | 96 |



## Utensili in HM per la lavorazione di alluminio

HW tools for processing aluminium  
herramientas en widia para procesar aluminio  
Outils en carbure solide pour l'usinage de l'aluminium



## 9.61

-  **LAMA IN HM PER TAGLIO E TRONCATURA DI PROFILATI IN ALLUMINIO**
-  **HW SAW-BLADE FOR CUTTING AND SIZING OF ALUMINIUM PROFILES**
-  **SIERRA EN WIDIA PARA CORTAR Y DIMENSIONAR DE PERFILES DE ALUMINIO**
-  **LAME EN CARBURE SOLIDE DE COUPE ET TRONÇONNAGE DE PROFILÉS EN ALUMINIUM**



| Articolo /Article<br>Artículo / Article | Ø   | Spessore/Thickness<br>Espesor/ Épaisseur | ØForo/Bore Ø<br>ØTaladro/ØTrou | Z      |
|-----------------------------------------|-----|------------------------------------------|--------------------------------|--------|
| 9.61/150x48                             | 150 | 3,2                                      | 20/30                          | 48     |
| 9.61/160x48NEG                          | 160 | 2,2                                      | 20+2                           | 48neg  |
| 9.61/160x48                             | 160 | 3,2                                      | 20/30                          | 48     |
| 9.61/180x40                             | 180 | 3,2                                      | 20/30                          | 40     |
| 9.61/180x56                             | 180 | 3,2                                      | 20/30                          | 56     |
| 9.61/180x56NEG                          | 180 | 2,8                                      | 30                             | 56neg  |
| 9.61/190x56NEG                          | 190 | 2,8                                      | 20                             | 56neg  |
| 9.61/200x48                             | 200 | 3,2                                      | 30/32                          | 48     |
| 9.61/200x64                             | 200 | 3,2                                      | 30/32                          | 64     |
| 9.61/200x84NEG                          | 200 | 2,8                                      | 30                             | 84neg  |
| 9.61/215x64NEG                          | 215 | 2,8                                      | 30                             | 64neg  |
| 9.61/225x72                             | 225 | 3,2                                      | 30/32                          | 72     |
| 9.61/250x60                             | 250 | 3,2                                      | 20/32                          | 60     |
| 9.61/250x80                             | 250 | 3,2                                      | 20/32                          | 80     |
| 9.61/250x80NEG                          | 250 | 3,2                                      | 30/32+2                        | 80neg  |
| 9.61/260x80NEG                          | 260 | 3,2                                      | 30                             | 80neg  |
| 9.61/275x84                             | 275 | 3,2                                      | 30/32                          | 84     |
| 9.61/300x72                             | 300 | 3,2                                      | 30/32                          | 72     |
| 9.61/300x84                             | 300 | 3,2                                      | 32                             | 84     |
| 9.61/300x96                             | 300 | 3,2                                      | 20/30/32                       | 96     |
| 9.61/300x96NEG                          | 300 | 3,2                                      | 30/32+2                        | 96neg  |
| 9.61/330x80                             | 330 | 3,5                                      | 20/32                          | 80     |
| 9.61/330x100                            | 330 | 3,5                                      | 20/32                          | 100    |
| 9.61/330x102NEG                         | 330 | 3,5                                      | 30+2                           | 102neg |
| 9.61/350x84                             | 350 | 3,6                                      | 30/32+2                        | 84     |
| 9.61/350x84NEG                          | 350 | 3,6                                      | 30/32+2                        | 84neg  |
| 9.61/350x96                             | 350 | 3,5                                      | 32                             | 96     |
| 9.61/350x108                            | 350 | 3,6                                      | 20/30/32+2                     | 108    |
| 9.61/350x108NEG                         | 350 | 3,6                                      | 30/32+2                        | 108neg |
| 9.61/370x108                            | 370 | 3,8                                      | 32/40                          | 108    |
| 9.61/380x110NEG                         | 380 | 3,5                                      | 32+2                           | 110neg |
| 9.61/400x72                             | 400 | 3,8                                      | 32+2                           | 72     |
| 9.61/400x96                             | 400 | 3,8                                      | 32/40                          | 96     |
| 9.61/400x108                            | 400 | 3,8                                      | 32/40                          | 108    |
| 9.61/400x120                            | 400 | 4,0                                      | 30/32+2                        | 120    |

## 9.61

-  **LAMA IN HM PER TAGLIO E TRONCATURA DI PROFILATI IN ALLUMINIO**
-  **HW SAW-BLADE FOR CUTTING AND SIZING OF ALUMINIUM PROFILES**
-  **SIERRA EN WIDIA PARA CORTAR Y DIMENSIONAR DE PERFILES DE ALUMINIO**
-  **LAME EN CARBURE SOLIDE DE COUPE ET TRONÇONNAGE DE PROFILÉS EN ALUMINIUM**



| Articolo / Article<br>Artículo / Article | Ø   | Spessore/Thickness<br>Espesor/ Épaisseur | ØForo/Bore Ø<br>ØTaladro/ØTrou | Z      |
|------------------------------------------|-----|------------------------------------------|--------------------------------|--------|
| 9.61/400x120NEG                          | 400 | 4,0                                      | 30/32                          | 120neg |
| 9.61/420x96                              | 420 | 3,8                                      | 32/40                          | 96     |
| 9.61/420x4.4x96                          | 420 | 4,4                                      | 30+2                           | 96     |
| 9.61/420x96NEG                           | 420 | 3,8                                      | 40                             | 96neg  |
| 9.61/420x120                             | 420 | 4,0                                      | 32                             | 120    |
| 9.61/450x72                              | 450 | 3,8                                      | 32+2                           | 72     |
| 9.61/450x80                              | 450 | 3,8                                      | 32+2                           | 80     |
| 9.61/450x96                              | 450 | 3,8                                      | 32+2                           | 96     |
| 9.61/450x108                             | 450 | 4,0                                      | 32/40                          | 108    |
| 9.61/450x128                             | 450 | 4,0                                      | 30/32+2                        | 128    |
| 9.61/450x128NEG                          | 450 | 4,0                                      | 30/32+2                        | 128neg |
| 9.61/500x72                              | 500 | 4,0                                      | 32                             | 72     |
| 9.61/500x80                              | 500 | 4,0                                      | 32                             | 80     |
| 9.61/500x96                              | 500 | 4,0                                      | 32                             | 96     |
| 9.61/500x100                             | 500 | 4,0                                      | 32/40                          | 100    |
| 9.61/500x120                             | 500 | 4,0                                      | 32/40                          | 120    |
| 9.61/500x140                             | 500 | 4,2                                      | 30/32+2                        | 140    |
| 9.61/500x140NEG                          | 500 | 4,2                                      | 30/32+2                        | 140neg |
| 9.61/530x120                             | 530 | 4,0                                      | 30+2                           | 120    |
| 9.61/530x120S                            | 530 | 4,2                                      | 30+2                           | 120sil |
| 9.61/550x72                              | 550 | 4,0                                      | 32+2                           | 72     |
| 9.61/550x96                              | 550 | 4,0                                      | 32+2                           | 96     |
| 9.61/550x110                             | 550 | 4,2                                      | 30                             | 110    |
| 9.61/550x120                             | 550 | 4,6                                      | 30/32                          | 120    |
| 9.61/550x132                             | 550 | 4,5                                      | 32+2                           | 132    |
| 9.61/550x4.2x140                         | 550 | 4,2                                      | 30/32+2                        | 140    |
| 9.61/550x140                             | 550 | 4,6                                      | 30/32                          | 140    |
| 9.61/600x96                              | 600 | 4,8                                      | 40                             | 96     |
| 9.61/600x100                             | 600 | 5,0                                      | 32+2                           | 100    |
| 9.61/600x120                             | 600 | 4,6                                      | 30/32                          | 120    |
| 9.61/600x132                             | 600 | 5,0                                      | 32+2                           | 132    |
| 9.61/600x140                             | 600 | 4,6                                      | 30/32+2/40                     | 140    |
| 9.61/600x140NEG                          | 600 | 4,6                                      | 30                             | 140neg |
| 9.61/620x90                              | 620 | 5,0                                      | 32                             | 90     |
| 9.61/650x84                              | 650 | 5,0                                      | 32+2                           | 84     |

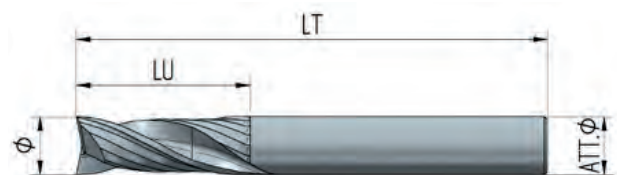
## 9.61

-  **LAMA IN HM PER TAGLIO E TRONCATURA DI PROFILATI IN ALLUMINIO**
-  **HW SAW-BLADE FOR CUTTING AND SIZING OF ALUMINIUM PROFILES**
-  **SIERRA EN WIDIA PARA CORTAR Y DIMENSIONAR DE PERFILES DE ALUMINIO**
-  **LAME EN CARBURE SOLIDE DE COUPE ET TRONÇONNAGE DE PROFILÉS EN ALUMINIUM**

| Articolo /Article<br>Artículo / Article | Ø    | Spessore/Thickness<br>Espesor/ Épaisseur | ØForo/Bore Ø<br>ØTaladro/ØTrou | Z   |
|-----------------------------------------|------|------------------------------------------|--------------------------------|-----|
| 9.61/650x100                            | 650  | 5,0                                      | 32+2                           | 100 |
| 9.61/650x140                            | 650  | 5,0                                      | 30/32+2/40/+2/+4               | 140 |
| 9.61/700x140                            | 700  | 5,0                                      | 30/32                          | 140 |
| 9.61/700x180                            | 700  | 6,0                                      | 50                             | 180 |
| 9.61/1050x220                           | 1050 | 7,0                                      | 65                             | 220 |

# PA040

-  **FRESA ELICOIDALE IN HM Z=2 PER LAVORARE ALLUMINIO SU MACCHINE CNC, SERIE CORTA**
-  **HW HELICOIDAL CUTTER Z=2 FOR PROCESSING ALUMINIUM ON CNC MACHINING CENTERS, SHORT VERSION**
-  **FRESA HELICOIDALE Z=2 EN WIDIA PARA TRABAJAR ALUMINIO PARA CENTRO DE TRABAJOS, SERIE CORTA**
-  **FRAISE HÉLICOÏDAL EN CARBURE SOLIDE Z=2 POUR L'USINAGE DES PROFILS EN ALUMINIUM SUR DE MACHINES À COMMANDE NUMÉRIQUE, VERSION COURTE**



| Articolo/Article<br>Artículo/Article | Ø  | LU/LOC<br>LDC/LDC | LT/TL<br>LT/LT | Att.Ø/ShankØ<br>EjeØ/ShankØ |
|--------------------------------------|----|-------------------|----------------|-----------------------------|
| PA040/03A1                           | 3  | 12                | 50             | 3                           |
| PA040/04A1                           | 4  | 12                | 60             | 4                           |
| PA040/05A1                           | 5  | 20                | 60             | 5                           |
| PA040/06A1                           | 6  | 20                | 60             | 6                           |
| PA040/07A1                           | 7  | 40                | 90             | 7                           |
| PA040/08A1                           | 8  | 20                | 60             | 8                           |
| PA040/08B1                           | 8  | 20                | 80             | 8                           |
| PA040/10A1                           | 10 | 25                | 70             | 10                          |
| PA040/10B1                           | 10 | 25                | 80             | 10                          |

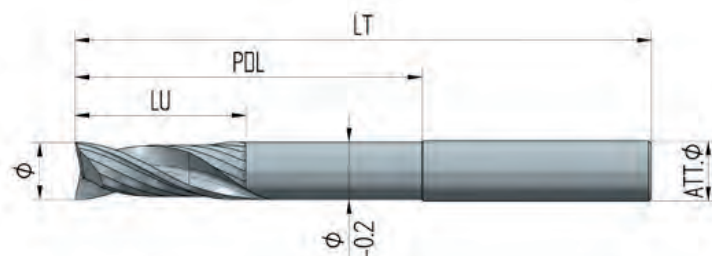
**LU = Lunghezza Utile**  
 LOC = Lenght Of Cut  
 LDC = Longitud De Corte  
 LDC = Longueur De Coupe

**LT = Lunghezza Totale**  
 TL = Total Lenght  
 LT = Longitud Total  
 LT = Longueur Totale

**\*Su richiesta si esegue rivestimento specifico per alluminio**  
 Specific coating for processing aluminium on request  
 Revestimiento específico para el mecanizado de aluminio se realiza a petición  
 Un revêtement spécifique pour l'usinage de l'aluminium est effectué sur demande

# PA041

- 🇮🇹 **FRESA ELICOIDALE IN HM Z=2 PER LAVORARE ALLUMINIO SU MACCHINE CNC, SERIE LUNGA**
- 🇬🇧 **HW HELICOIDAL CUTTER Z=2 FOR PROCESSING ALUMINIUM ON CNC MACHINING CENTERS, LONG VERSION**
- 🇪🇸 **FRESA HELICOIDALE Z=2 EN WIDIA PARA TRABAJAR ALUMINIO PARA CENTRO DE TRABAJOS, SERIE LARGA**
- 🇫🇷 **FRAISE HÉLICOÏDAL EN CARBURE SOLIDE Z=2 POUR L'USINAGE DES PROFILS EN ALUMINIUM SUR DE MACHINES À COMMANDE NUMÉRIQUE, VERSION LONGUE**



| Articolo/Article<br>Artículo/Article | Ø  | LU/LOC<br>LDC/LDC | PDL/PD<br>PDP/PDT | LT/TL<br>LT/LT | Att.Ø/ShankØ<br>EjeØ/ShankØ |
|--------------------------------------|----|-------------------|-------------------|----------------|-----------------------------|
| PA041/05B1                           | 5  | 15                | 35                | 80             | 8                           |
| PA041/05C1                           | 5  | 30                | 60                | 100            | 8                           |
| PA041/06B1                           | 6  | 20                | 35                | 80             | 8                           |
| PA041/06C1                           | 6  | 30                | 60                | 100            | 8                           |
| PA041/08A1                           | 8  | 15                | 45                | 80             | 8                           |
| PA041/08B1                           | 8  | 15                | 50                | 95             | 8                           |
| PA041/08C1                           | 8  | 20                | 75                | 100            | 8                           |
| PA041/10A1                           | 10 | 12                | 80                | 110            | 10                          |
| PA041/10B1                           | 10 | 15                | 30                | 80             | 10                          |
| PA041/10C1                           | 10 | 15                | 61                | 90             | 10                          |
| PA041/10D1                           | 10 | 15                | 50                | 95             | 10                          |
| PA041/10E1                           | 10 | 25                | 75                | 100            | 10                          |
| PA041/12A1                           | 12 | 20                | 60                | 100            | 12                          |
| PA041/12B1                           | 12 | 35                | 75                | 100            | 12                          |
| PA041/12C1                           | 12 | 35                | 95                | 120            | 12                          |
| PA041/14A1                           | 14 | 35                | 75                | 100            | 14                          |
| PA041/14B1                           | 14 | 35                | 95                | 120            | 14                          |
| PA041/16A1                           | 16 | 20                | 60                | 115            | 16                          |
| PA041/16B1                           | 16 | 25                | 55                | 95             | 16                          |
| PA041/20A1                           | 20 | 20                | 70                | 125            | 20                          |

\*Su richiesta si esegue rivestimento specifico per alluminio

Specific coating for processing aluminium on request

Revestimiento específico para el mecanizado de aluminio se realiza a petición

Un revêtement spécifique pour l'usinage de l'aluminium est effectué sur demande

LU = Lunghezza Utile

LOC = Length Of Cut

LDC = Longitud De Corte

LDC = Longueur De Coupe

PDL = Profondità di lavorazione

PD = Processing depth

PDP = Profundidad de procesamiento

PDT = Profondeur de traitement

LT = Lunghezza Totale

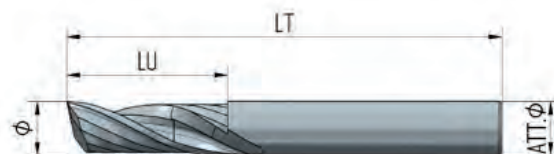
TL = Total Length

LT = Longitud Total

LT = Longueur Totale

# PA043

-  **FRESA ELICOIDALE IN HM Z=1 PER LAVORARE ALLUMINIO SU MACCHINE CNC – SERIE CORTA**
-  **HW HELICOIDAL CUTTER Z=1 FOR PROCESSING ALUMINIUM ON CNC MACHINING CENTERS – SHORT VERSION**
-  **FRESA HELICOIDALE Z=1 EN WIDIA PARA TRABAJAR ALUMINIO PARA CENTRO DE TRABAJOS – SERIE CORTA**
-  **FRAISE HÉLICOÏDAL EN CARBURE SOLIDE Z=1 POUR L'USINAGE DES PROFILS EN ALUMINIUM SUR DE MACHINES À COMMANDE NUMÉRIQUE - VERSION COURTE**



| Articolo/Article<br>Artículo/Article | Ø  | LU/LOC<br>LDC/LDC | LT/TL<br>LT/LT | Att.Ø/ShankØ<br>EjeØ/ShankØ |
|--------------------------------------|----|-------------------|----------------|-----------------------------|
| PA043/03A1                           | 3  | 12                | 50             | 3                           |
| PA043/03B1                           | 3  | 16                | 80             | 6                           |
| PA043/04A1                           | 4  | 12                | 60             | 4                           |
| PA043/04B1                           | 4  | 12                | 60             | 6                           |
| PA043/05A1                           | 5  | 20                | 50             | 5                           |
| PA043/05B1                           | 5  | 20                | 60             | 5                           |
| PA043/05B2                           | 5  | 20                | 80             | 5                           |
| PA043/05D1                           | 5  | 20                | 50             | 8                           |
| PA043/05E1                           | 5  | 20                | 60             | 8                           |
| PA043/05E2                           | 5  | 25                | 80             | 8                           |
| PA043/06A1                           | 6  | 20                | 60             | 6                           |
| PA043/06B1                           | 6  | 20                | 80             | 6                           |
| PA043/06C1                           | 6  | 20                | 60             | 8                           |
| PA043/08A1                           | 8  | 22                | 65             | 8                           |
| PA043/08B1                           | 8  | 25                | 80             | 8                           |
| PA043/10A1                           | 10 | 25                | 65             | 10                          |
| PA043/10B1                           | 10 | 27                | 75             | 10                          |
| PA043/10C1                           | 10 | 30                | 85             | 10                          |

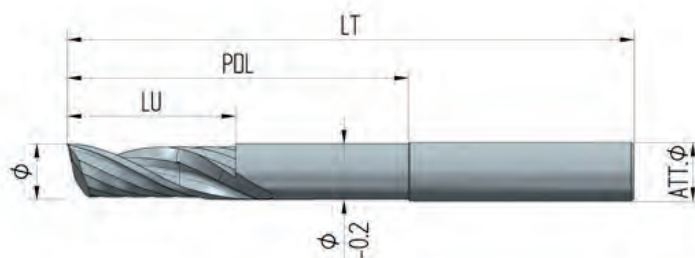
\*Su richiesta si esegue rivestimento specifico per alluminio  
 Specific coating for processing aluminium on request  
 Revestimiento específico para el mecanizado de aluminio se realiza a petición  
 Un revêtement spécifique pour l'usinage de l'aluminium est effectué sur demande

LU = Lunghezza Utile  
 LOC = Length Of Cut  
 LDC = Longitud De Corte  
 LDC = Longueur De Coupe

LT = Lunghezza Totale  
 TL = Total Length  
 LT = Longitud Total  
 LT = Longueur Totale

# PA044

- 🇮🇹 **FRESA ELICOIDALE IN HM Z=1 PER LAVORARE ALLUMINIO SU MACCHINE CNC – SERIE LUNGA**
- 🇬🇧 **HW HELICOIDAL CUTTER Z=1 FOR PROCESSING ALUMINIUM ON CNC MACHINING CENTERS – LONG VERSION**
- 🇪🇸 **FRESA ELICOIDALE Z=1 EN WIDIA PARA TRABAJAR ALUMINIO PARA CENTRO DE TRABAJOS – SERIE LARGA**
- 🇫🇷 **FRAISE HÉLICOÏDAL EN CARBURE SOLIDE Z=1 POUR L'USINAGE DES PROFILS EN ALUMINIUM SUR DE MACHINES À COMMANDE NUMÉRIQUE - VERSION LONGUE**



| Articolo/Article<br>Artículo/Article | Ø | LU/LOC<br>LDC/LDC | PDL/PD<br>PDP/PDT | LT/TL<br>LT/LT | Att.Ø/ShankØ<br>EjeØ/ShankØ |
|--------------------------------------|---|-------------------|-------------------|----------------|-----------------------------|
| PA044/03B1                           | 3 | 12                | 35                | 80             | 6                           |
| PA044/03C1                           | 3 | 12                | 35                | 80             | 8                           |
| PA044/04B1                           | 4 | 12                | 30                | 80             | 8                           |
| PA044/04C1                           | 4 | 12                | 40                | 80             | 8                           |
| PA044/04D1                           | 4 | 20                | 35                | 70             | 8                           |
| PA044/05B1                           | 5 | 15                | 30                | 80             | 8                           |
| PA044/05B2                           | 5 | 15                | 40                | 90             | 8                           |
| PA044/05C1                           | 5 | 15                | 50                | 100            | 8                           |
| PA044/05D1                           | 5 | 20                | 35                | 80             | 8                           |
| PA044/05E1                           | 5 | 20                | 45                | 80             | 8                           |
| PA044/05F1                           | 5 | 20                | 40                | 90             | 8                           |
| PA044/05G1                           | 5 | 20                | 50                | 100            | 8                           |
| PA044/05H1                           | 5 | 20                | 60                | 100            | 8                           |
| PA044/05H2                           | 5 | 20                | 60                | 110            | 8                           |
| PA044/05I1                           | 5 | 25                | 30                | 80             | 8                           |
| PA044/05L1                           | 5 | 25                | 55                | 100            | 8                           |
| PA044/06B1                           | 6 | 10                | 40                | 80             | 8                           |
| PA044/06C1                           | 6 | 20                | 35                | 70             | 8                           |
| PA044/06D1                           | 6 | 20                | 35                | 80             | 8                           |
| PA044/06E1                           | 6 | 20                | 60                | 100            | 8                           |

\*Su richiesta si esegue rivestimento specifico per alluminio  
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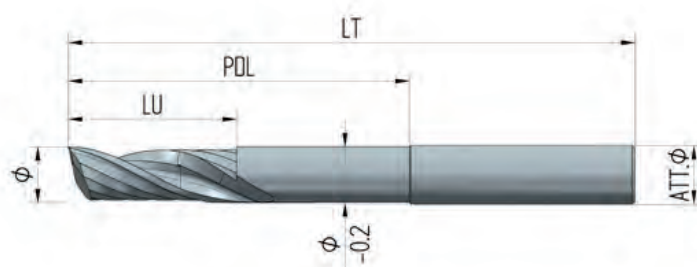
LU = Lunghezza Utile  
 LOC = Length Of Cut  
 LDC = Longitud De Corte  
 LDC = Longueur De Coupe

PDL = Profondità di lavorazione  
 PD = Processing depth  
 PDP = Profundidad de procesamiento  
 PDT = Profondeur de traitement

LT = Lunghezza Totale  
 TL = Total Length  
 LT = Longitud Total  
 LT = Longueur Totale

# PA044

-  **FRESA ELICOIDALE IN HM Z=1 PER LAVORARE ALLUMINIO SU MACCHINE CNC – SERIE LUNGA**
-  **HW HELICOIDAL CUTTER Z=1 FOR PROCESSING ALUMINIUM ON CNC MACHINING CENTERS – LONG VERSION**
-  **FRESA ELICOIDALE Z=1 EN WIDIA PARA TRABAJAR ALUMINIO PARA CENTRO DE TRABAJOS – SERIE LARGA**
-  **FRAISE HÉLICOÏDAL EN CARBURE SOLIDE Z=1 POUR L'USINAGE DES PROFILS EN ALUMINIUM SUR DE MACHINES À COMMANDE NUMÉRIQUE - VERSION LONGUE**



| Articolo/Article<br>Artículo/Article | Ø  | LU/LOC<br>LDC/LDC | PDL/PD<br>PDP/PDT | LT/TL<br>LT/LT | Att.Ø/ShankØ<br>EjeØ/ShankØ |
|--------------------------------------|----|-------------------|-------------------|----------------|-----------------------------|
| PA044/08A1                           | 8  | 15                | 45                | 80             | 8                           |
| PA044/08B1                           | 8  | 20                | 60                | 100            | 8                           |
| PA044/08C1                           | 8  | 20                | 75                | 100            | 8                           |
| PA044/08D1                           | 8  | 22                | 40                | 80             | 8                           |
| PA044/08E1                           | 8  | 27                | 40                | 80             | 8                           |
| PA044/08F1                           | 8  | 27                | 60                | 100            | 8                           |
| PA044/10A1                           | 10 | 20                | 75                | 100            | 10                          |
| PA044/10B1                           | 10 | 25                | 60                | 100            | 10                          |
| PA044/10C1                           | 10 | 25                | 95                | 120            | 10                          |
| PA044/12A1                           | 12 | 35                | 60                | 100            | 12                          |
| PA044/12B1                           | 12 | 35                | 75                | 100            | 12                          |
| PA044/12C1                           | 12 | 35                | 80                | 120            | 12                          |
| PA044/12D1                           | 12 | 35                | 95                | 120            | 12                          |
| PA044/14A1                           | 14 | 35                | 60                | 100            | 14                          |
| PA044/14B1                           | 14 | 35                | 75                | 100            | 14                          |
| PA044/14C1                           | 14 | 35                | 80                | 120            | 14                          |
| PA044/14D1                           | 14 | 35                | 95                | 120            | 14                          |

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 Revestimiento específico para el mecanizado de aluminio se realiza a petición  
 Un revêtement spécifique pour l'usinage de l'aluminium est effectué sur demande

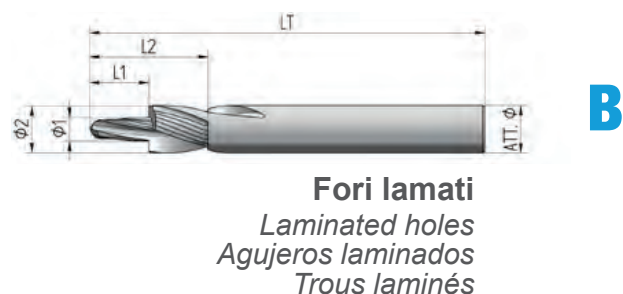
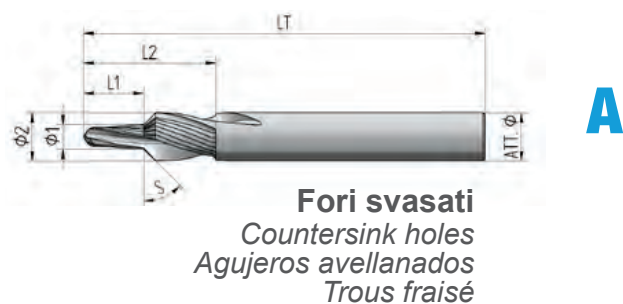
LU = Lunghezza Utile  
 LOC = Length Of Cut  
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 LDC = Longueur De Coupe

PDL = Profondità di lavorazione  
 PD = Processing depth  
 PDP = Profundidad de procesamiento  
 PDT = Profondeur de traitement

LT = Lunghezza Totale  
 TL = Total Length  
 LT = Longitud Total  
 LT = Longueur Totale

# PA045

- 🇮🇹 **PUNTE ELICOIDALI IN HM A DOPPIO DIAMETRO Z=2 PER ESEGUIRE FORI SVASATI O FORI LAMATI SU PROFILATI IN ALLUMINIO PER MACCHINE CNC**
- 🇬🇧 **DOUBLE DIAMETER HW ROUTER BIT Z=2 FOR DRILLING COUNTERSINK HOLES OR LAMINATED HOLES ON ALUMINIUM PROFILES**
- 🇪🇸 **BROCAS HELICOIDALES EN WIDIA DE DOBLE DIÁMETRO Z=2 PARA AGUJEROS AVELLANADOS O LAMINADOS EN PERFILES DE ALUMINIO PARA CENTRO DE TRABAJOS**
- 🇫🇷 **MÈCHES À DOUBLE DIAMÈTRE EN CARBURE SOLIDE Z=2 POUR TROUS FRAISÉS OU TROUS LAMINÉS SUR LE PROFILS EN ALUMINIUM POUR LES MACHINES À COMMANDE NUMÉRIQUE**



| Articolo/Article<br>Artículo/Article | Ø1 | Ø2 | L1 | L2 | LT | S | Att.Ø/ShankØ<br>EjeØ/ShankØ |
|--------------------------------------|----|----|----|----|----|---|-----------------------------|
| PA045A                               |    |    |    |    |    |   |                             |
| PA045B                               |    |    |    |    |    |   |                             |

## UTENSILI REALIZZATI SU RICHIESTA – COMPILARE TUTTE LE QUOTE INDICATE E DEFINIRE SE SERVE LA FIGURA A OPPURE B

Tools made on request – fill in all the quotes indicated and specify if you need the figure A or B.

Herramientas hechas a pedido – llene todas las cuotas indicadas y define si necesita la figura A o B.

Outils faits sur demande - remplissez toutes les dimensions indiquées et définissez si vous avez besoin de la figure A ou B

## 0.21

-  **FRESA IN HM A DENTI INCLINATI E ALTERNATI PER L'INTESTATURA DI PROFILI IN ALLUMINIO A 90°**
-  **HW CUTTER WITH TILTED AND ALTERNATED TEETH FOR END MILLING ALUMINIUM PROFILES AT 90°**
-  **FRESA EN WIDIA CON DIENTES INCLINADOS Y ALTERNADOS PARA RETESTAR DE PERFILES DE ALUMINIO DE 90°**
-  **FRAISE EN CARBURE SOLIDE À DENTS INCLINÉES ET ALTERNÉES POUR FRAISER DE PROFILÉS D'ALUMINIUM À 90**



### Denti inclinati e alternati

*Tilted and alternate teeth*

*Dientes inclinados y alternados*

*Dents inclinées et alternées*

| Articolo/Article<br>Artículo/Article | Ø     | Spessore/Thickness<br>Espesor/Épaisseur | Z= |
|--------------------------------------|-------|-----------------------------------------|----|
| 0.21/01                              | 50-59 | 3-5                                     | 6  |
| 0.21/02                              |       | 6-7                                     | 6  |
| 0.21/03                              |       | 8-9                                     | 6  |
| 0.21/04                              |       | 10-11                                   | 6  |
| 0.21/05                              |       | 12-13                                   | 6  |
| 0.21/06                              |       | 14-15                                   | 6  |
| 0.21/07                              |       | 16-17                                   | 6  |
| 0.21/08                              |       | 18-19                                   | 6  |
| 0.21/09                              |       | 20-21                                   | 6  |
| 0.21/10                              | 60-69 | 3-5                                     | 6  |
| 0.21/11                              |       | 6-7                                     | 6  |
| 0.21/12                              |       | 8-9                                     | 6  |
| 0.21/13                              |       | 10-11                                   | 6  |
| 0.21/14                              |       | 12-13                                   | 6  |
| 0.21/15                              |       | 14-15                                   | 6  |
| 0.21/16                              |       | 16-17                                   | 6  |
| 0.21/17                              |       | 18-19                                   | 6  |
| 0.21/18                              |       | 20-21                                   | 6  |
| 0.21/19                              | 70-79 | 3-5                                     | 8  |
| 0.21/20                              |       | 6-7                                     | 8  |
| 0.21/21                              |       | 8-9                                     | 8  |
| 0.21/22                              |       | 10-11                                   | 8  |
| 0.21/23                              |       | 12-13                                   | 8  |
| 0.21/24                              |       | 14-15                                   | 8  |
| 0.21/25                              |       | 16-17                                   | 8  |
| 0.21/26                              |       | 18-19                                   | 8  |

# 0.21

-  **FRESA IN HM A DENTI INCLINATI E ALTERNATI PER L'INTESTATURA DI PROFILI IN ALLUMINIO A 90°**
-  **HW CUTTER WITH TILTED AND ALTERNATED TEETH FOR END MILLING ALUMINIUM PROFILES AT 90°**
-  **FRESA EN WIDIA CON DIENTES INCLINADOS Y ALTERNADOS PARA RETESTAR DE PERFILES DE ALUMINIO DE 90°**
-  **FRAISE EN CARBURE SOLIDE À DENTS INCLINÉES ET ALTERNÉES POUR FRAISER DE PROFILÉS D'ALUMINIUM À 90°**

| Articolo/Article<br>Artículo/Article | Ø       | Spessore/Thickness<br>Espesor/Épaisseur | Z= |
|--------------------------------------|---------|-----------------------------------------|----|
| 0.21/27                              | 80-89   | 20-21                                   | 8  |
| 0.21/28                              |         | 3-5                                     | 8  |
| 0.21/29                              |         | 6-7                                     | 8  |
| 0.21/30                              |         | 8-9                                     | 8  |
| 0.21/31                              |         | 10-11                                   | 8  |
| 0.21/32                              |         | 12-13                                   | 8  |
| 0.21/33                              |         | 14-15                                   | 8  |
| 0.21/34                              | 90-99   | 16-17                                   | 8  |
| 0.21/35                              |         | 18-19                                   | 8  |
| 0.21/36                              |         | 20-21                                   | 8  |
| 0.21/37                              |         | 3-5                                     | 8  |
| 0.21/38                              |         | 6-7                                     | 8  |
| 0.21/39                              |         | 8-9                                     | 8  |
| 0.21/40                              |         | 10-11                                   | 8  |
| 0.21/41                              | 90-99   | 12-13                                   | 8  |
| 0.21/42                              |         | 14-15                                   | 8  |
| 0.21/43                              |         | 16-17                                   | 8  |
| 0.21/44                              |         | 18-19                                   | 8  |
| 0.21/45                              |         | 20-21                                   | 8  |
| 0.21/46                              | 100-109 | 3-5                                     | 10 |
| 0.21/47                              |         | 6-7                                     | 10 |
| 0.21/48                              |         | 8-9                                     | 10 |
| 0.21/49                              |         | 10-11                                   | 10 |
| 0.21/50                              |         | 12-13                                   | 10 |
| 0.21/51                              |         | 14-15                                   | 10 |
| 0.21/52                              |         | 16-17                                   | 10 |
| 0.21/53                              | 110-119 | 18-19                                   | 10 |
| 0.21/54                              |         | 20-21                                   | 10 |
| 0.21/55                              |         | 3-5                                     | 12 |
| 0.21/56                              |         | 6-7                                     | 12 |
| 0.21/57                              |         | 8-9                                     | 12 |
| 0.21/58                              |         | 10-11                                   | 12 |
| 0.21/59                              |         | 12-13                                   | 12 |
| 0.21/60                              | 120-129 | 14-15                                   | 12 |
| 0.21/61                              |         | 16-17                                   | 12 |
| 0.21/62                              |         | 18-19                                   | 12 |
| 0.21/63                              |         | 20-21                                   | 12 |
| 0.21/64                              |         | 3-5                                     | 14 |

## 0.21

-  **FRESA IN HM A DENTI INCLINATI E ALTERNATI PER L'INTESTATURA DI PROFILI IN ALLUMINIO A 90°**
-  **HW CUTTER WITH TILTED AND ALTERNATED TEETH FOR END MILLING ALUMINIUM PROFILES AT 90°**
-  **FRESA EN WIDIA CON DIENTES INCLINADOS Y ALTERNADOS PARA RETESTAR DE PERFILES DE ALUMINIO DE 90°**
-  **FRAISE EN CARBURE SOLIDE À DENTS INCLINÉES ET ALTERNÉES POUR FRAISER DE PROFILÉS D'ALUMINIUM À 90**

| Articolo/Article<br>Artículo/Article | Ø       | Spessore/Thickness<br>Espesor/Épaisseur | Z= |
|--------------------------------------|---------|-----------------------------------------|----|
| 0.21/65                              |         | 6-7                                     | 14 |
| 0.21/66                              |         | 8-9                                     | 14 |
| 0.21/67                              |         | 10-11                                   | 14 |
| 0.21/68                              |         | 12-13                                   | 14 |
| 0.21/69                              |         | 14-15                                   | 14 |
| 0.21/70                              |         | 16-17                                   | 14 |
| 0.21/71                              |         | 18-19                                   | 14 |
| 0.21/72                              |         | 20-21                                   | 14 |
| 0.21/73                              | 130-139 | 3-5                                     | 16 |
| 0.21/74                              |         | 6-7                                     | 16 |
| 0.21/75                              |         | 8-9                                     | 16 |
| 0.21/76                              |         | 10-11                                   | 16 |
| 0.21/77                              |         | 12-13                                   | 16 |
| 0.21/78                              |         | 14-15                                   | 16 |
| 0.21/79                              |         | 16-17                                   | 16 |
| 0.21/80                              |         | 18-19                                   | 16 |
| 0.21/81                              |         | 20-21                                   | 16 |
| 0.21/82                              | 140-149 | 3-5                                     | 16 |
| 0.21/83                              |         | 6-7                                     | 16 |
| 0.21/84                              |         | 8-9                                     | 16 |
| 0.21/85                              |         | 10-11                                   | 16 |
| 0.21/86                              |         | 12-13                                   | 16 |
| 0.21/87                              |         | 14-15                                   | 16 |
| 0.21/88                              |         | 16-17                                   | 16 |
| 0.21/89                              |         | 18-19                                   | 16 |
| 0.21/90                              |         | 20-21                                   | 16 |
| 0.21/91                              | 150-159 | 3-5                                     | 18 |
| 0.21/92                              |         | 6-7                                     | 18 |
| 0.21/93                              |         | 8-9                                     | 18 |
| 0.21/94                              |         | 10-11                                   | 18 |
| 0.21/95                              |         | 12-13                                   | 18 |
| 0.21/96                              |         | 14-15                                   | 18 |
| 0.21/97                              |         | 16-17                                   | 18 |
| 0.21/98                              |         | 18-19                                   | 18 |
| 0.21/99                              |         | 20-21                                   | 18 |
| 0.21/100                             | 160-169 | 3-5                                     | 18 |
| 0.21/101                             |         | 6-7                                     | 18 |
| 0.21/102                             |         | 8-9                                     | 18 |

# 0.21

- 🇮🇹 **FRESA IN HM A DENTI INCLINATI E ALTERNATI PER L'INTESTATURA DI PROFILI IN ALLUMINIO A 90°**
- 🇬🇧 **HW CUTTER WITH TILTED AND ALTERNATED TEETH FOR END MILLING ALUMINIUM PROFILES AT 90°**
- 🇪🇸 **FRESA EN WIDIA CON DIENTES INCLINADOS Y ALTERNADOS PARA RETESTAR DE PERFILES DE ALUMINIO DE 90°**
- 🇫🇷 **FRAISE EN CARBURE SOLIDE À DENTS INCLINÉES ET ALTERNÉES POUR FRAISER DE PROFILÉS D'ALUMINIUM À 90**

| Articolo/Article<br>Artículo/Article | Ø       | Spessore/Thickness<br>Espesor/Épaisseur | Z= |
|--------------------------------------|---------|-----------------------------------------|----|
| 0.21/103                             |         | 10-11                                   | 18 |
| 0.21/104                             |         | 12-13                                   | 18 |
| 0.21/105                             |         | 14-15                                   | 18 |
| 0.21/106                             |         | 16-17                                   | 18 |
| 0.21/107                             |         | 18-19                                   | 18 |
| 0.21/108                             |         | 20-21                                   | 18 |
| 0.21/109                             | 170-179 | 3-5                                     | 18 |
| 0.21/110                             |         | 6-7                                     | 18 |
| 0.21/111                             |         | 8-9                                     | 18 |
| 0.21/112                             |         | 10-11                                   | 18 |
| 0.21/113                             |         | 12-13                                   | 18 |
| 0.21/114                             |         | 14-15                                   | 18 |
| 0.21/115                             |         | 16-17                                   | 18 |
| 0.21/116                             |         | 18-19                                   | 18 |
| 0.21/117                             |         | 20-21                                   | 18 |
| 0.21/118                             | 180-189 | 3-5                                     | 20 |
| 0.21/119                             |         | 6-7                                     | 20 |
| 0.21/120                             |         | 8-9                                     | 20 |
| 0.21/121                             |         | 10-11                                   | 20 |
| 0.21/122                             |         | 12-13                                   | 20 |
| 0.21/123                             |         | 14-15                                   | 20 |
| 0.21/124                             |         | 16-17                                   | 20 |
| 0.21/125                             |         | 18-19                                   | 20 |
| 0.21/126                             |         | 20-21                                   | 20 |
| 0.21/127                             | 190-200 | 3-5                                     | 20 |
| 0.21/128                             |         | 6-7                                     | 20 |
| 0.21/129                             |         | 8-9                                     | 20 |
| 0.21/130                             |         | 10-11                                   | 20 |
| 0.21/131                             |         | 12-13                                   | 20 |
| 0.21/132                             |         | 14-15                                   | 20 |
| 0.21/133                             |         | 16-17                                   | 20 |
| 0.21/134                             |         | 18-19                                   | 20 |
| 0.21/135                             |         | 20-21                                   | 20 |

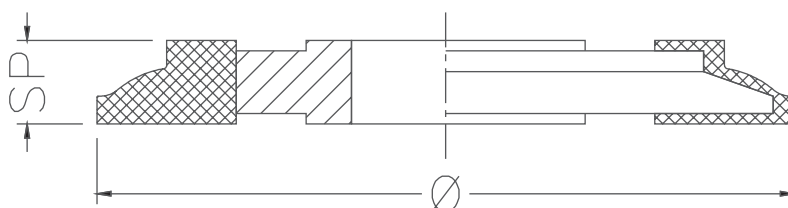
## 0.22

 **FRESA SAGOMATA IN HM Z=8 PER L'INTESTATURA DI PROFILATI IN ALLUMINIO**

 **HW PROFILED CUTTER Z=8 FOR END MILLING ALUMINIUM PROFILES**

 **FRESA ESPECIAL EN WIDIA Z=8 PARA RETESTAR DE PERFILES DE ALUMINIO**

 **FRAISE EN CARBURE SOLIDE PROFILÉE Z=8 POUR FRAISER DE PROFILÉS D'ALUMINIUM**



| Articolo/Article<br>Artículo/Article | Ø       | Spessore/Thickness<br>Espesor/Épaisseur |
|--------------------------------------|---------|-----------------------------------------|
| 0.22/104x12                          | 95÷104  | 12                                      |
| 0.22/104x14                          | 95÷104  | 14                                      |
| 0.22/104x16                          | 95÷104  | 16                                      |
| 0.22/104x18                          | 95÷104  | 18                                      |
| 0.22/104x20                          | 95÷104  | 20                                      |
| 0.22/104x22                          | 95÷104  | 22                                      |
| 0.22/119x12                          | 105÷119 | 12                                      |
| 0.22/119x14                          | 105÷119 | 14                                      |
| 0.22/119x16                          | 105÷119 | 16                                      |
| 0.22/119x18                          | 105÷119 | 18                                      |
| 0.22/119x20                          | 105÷119 | 20                                      |
| 0.22/119x22                          | 105÷119 | 22                                      |
| 0.22/129x12                          | 120÷129 | 12                                      |
| 0.22/129x14                          | 120÷129 | 14                                      |
| 0.22/129x16                          | 120÷129 | 16                                      |
| 0.22/129x18                          | 120÷129 | 18                                      |
| 0.22/129x20                          | 120÷129 | 20                                      |
| 0.22/129x22                          | 120÷129 | 22                                      |



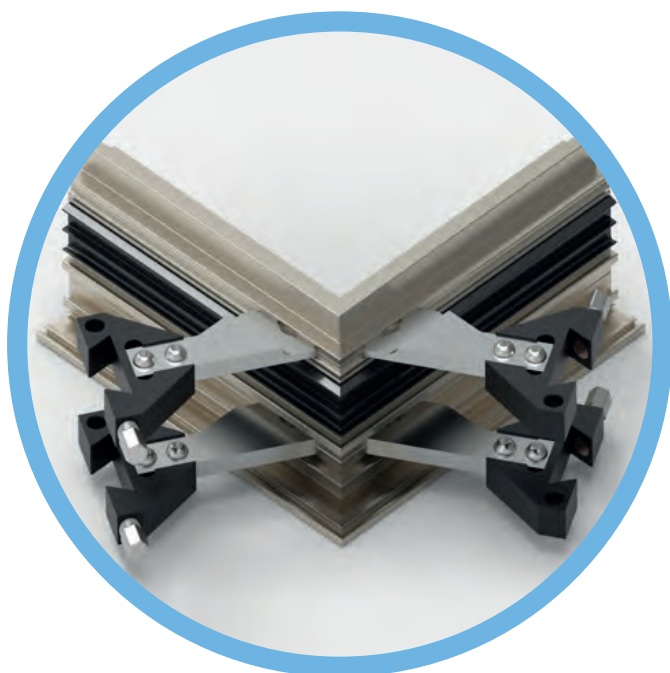
## Ricambi e accessori

Spare parts and accessories  
Repuestos y accesorios  
Pièces détachées et accessoires



## 0.41

- 🇮🇹 **COLTELLO PUNZONE IN HSS PER MACCHINA CIANFRINATRICE PER LA CHIUSURA DI ANGOLI DI PROFILATI IN ALLUMINIO NEI SERRAMENTI ED IN ALTRE APPLICAZIONI**
- 🇬🇧 **HSS KNIFE FOR CRIMPING MACHINE FOR CLOSING CORNERS OF ALUMINIUM PROFILES IN WINDOWS AND OTHER APPLICATIONS**
- 🇪🇸 **CUCHILLA HSS PARA MÁQUINA RECALCADORA PARA CERRAR ESQUINAS DE PERFILES DE ALUMINIO EN VENTANAS Y OTRAS APLICACIONES**
- 🇫🇷 **COUPEAU HSS POUR MACHINE SERTISSEUSES POUR LA FERMETURE DES ANGLES DES PROFILÉS EN ALUMINIUM DANS LES FENÊTRES ET AUTRES APPLICATIONS**



| Articolo/Article<br>Artículo/Article | Descrizione / Description<br>Descripción / Description |
|--------------------------------------|--------------------------------------------------------|
| 0.41                                 | A richiesta<br>On request<br>A petición<br>Sur demande |

### UTENSILI REALIZZATI SU RICHIESTA – COMPILARE TUTTE LE QUOTE INDICATE

Tools made on request – fill in all the quotes indicated

Herramientas hechas a pedido – llene todas las cuotas  
indicadas

Outils faits sur demande - remplissez toutes les dimensions  
indiquées

## 0.61

- 🇮🇹 **CANOTTO PER GRUPPO FRESA A INTESTARE E PULIRE COMPLETI DI GHIERA ED ANELLI PER MACCHINE MANUALI**
- 🇬🇧 **SLEEVE TOOL-HOLDER FOR END MILLING AND CLEANING CUTTER SETS WITH NUT AND RINGS FOR MILLING MACHINES WITH MANUAL CHANGING OF THE TOOL**
- 🇪🇸 **MANGUITOS PARA CONJUNT DE FRESAS A RETESTAR Y LIMPIAR CON ANILLOS Y CASQUILLOS PARA MAQUINAS CON CAMBIO MANUAL**
- 🇫🇷 **PORTE-OUTILS À MANCHON POUR JEUX DE FRAISE AVEC ÉCROU ET BAGUES POUR LES MACHINES À FRAISER AVEC CHANGEMENT MANUEL DE L'OUTIL**



| Articolo/Article<br>Artículo/Article | Ø Esterno/Outer Ø<br>Ø Exterior/Ø Extérieur | Ø Foro/Bore Ø<br>Ø Taladro/Ø Trou | H     |
|--------------------------------------|---------------------------------------------|-----------------------------------|-------|
| 0.61/01                              | 16,0                                        | 22,0                              | 70,0  |
| 0.61/02                              | 16,0                                        | 22,0                              | 120,0 |
| 0.61/03                              | 22,0                                        | 32,0                              | 80,0  |
| 0.61/04                              | 22,0                                        | 32,0                              | 110,0 |
| 0.61/05                              | 27,0                                        | 32,0                              | 80,0  |
| 0.61/06                              | 27,0                                        | 32,0                              | 95,0  |
| 0.61/07                              | 27,0                                        | 32,0                              | 110,0 |

**Per misure speciali, prezzi a consuntivo**

*For special measures, prices on request*

*Para medidas especiales, precios a pedido*

*Pour les mesures spéciales, prix sur demande*

## 0.62

-  **CANOTTO PER GRUPPO FRESA A INTESTARE COMPLETO DI GHIERA ED ANELLI PER MACCHINE A CAMBIO RAPIDO**
-  **SLEEVE TOOL-HOLDER FOR END MILLING CUTTER SET WITH NUT AND RINGS FOR MILLING MACHINES WITH AUTOMATIC CHANGING OF THE TOOL**
-  **MANGUITOS PARA CONJUNT DE FRESAS A RETESTAR CON ANILLOS Y CASQUILLOS PARA MAQUINAS CON CAMBIO RAPIDO**
-  **PORTE-OUTILS À MANCHON POUR JEU DE FRAISE AVEC ÉCROU ET BAGUES POUR LES MACHINES À FRAISER AVEC CHANGEMENT RAPIDE DE L'OUTIL**



| Articolo/<br>Article<br>Artículo/<br>Article | Ø Esterno<br>Outer Ø<br>Ø Exterior<br>Ø Extérieur | Ø Foro<br>Bore Ø<br>Ø Taladro<br>Ø Trou | H     | Macchina intestatrice<br>End milling machine<br>Retestadora<br>Fraiseuses à abouter. |
|----------------------------------------------|---------------------------------------------------|-----------------------------------------|-------|--------------------------------------------------------------------------------------|
| 0.62/01                                      | 32,0                                              | 27,0                                    | 97,0  | M.L.A.M10/M7                                                                         |
| 0.62/02                                      | 32,0                                              | 27,0                                    | 100,0 | Rinaldi 1M/P, Pertici ML120, M.L.A. H100                                             |
| 0.62/03                                      | 32,0                                              | 27,0                                    | 117,5 | Lisi                                                                                 |
| 0.62/04                                      | 32,0                                              | 27,0                                    | 120,0 | Comall, M.L.A.H120                                                                   |
| 0.62/05                                      | 32,0                                              | 22,0                                    | 130,0 | PDP, Wegoma H130, O.M.C., TIGRA, STB 130                                             |
| 0.62/06                                      | 32,0                                              | 22,0                                    | 160,0 | STB H160                                                                             |
| 0.62/07                                      | 32,0                                              | 27,0                                    | 135,0 | Rinaldi 9M-10A Omga, MG Work 150, Pertici ML124<br>ABCD/ALTECH GEMMA GROUP           |
| 0.62/08                                      | 32,0                                              | 25,0                                    | 140,0 | LGF, Oemme                                                                           |
| 0.62/09                                      | 32,0                                              | 27,0                                    | 145,0 | Tekna - MLA                                                                          |
| 0.62/10                                      | 32,0                                              | 27,0                                    | 150,0 | Mecal 702                                                                            |
| 0.62/11                                      | 32,0                                              | 25,0                                    | 155,0 | Infismac IMCRS                                                                       |
| 0.62/12                                      | 32,0                                              | 25,0                                    | 165,0 | Rinaldi 350A, Infismac ICRP, Wegoma H160, Pertici, Green it250                       |
| 0.62/13                                      | 32,0                                              | 25,0                                    | 173,0 | Fom Jet, Mistral e Marak                                                             |
| 0.62/14                                      | 32,0                                              | 27,0                                    | 180,0 | Rinaldi 400V                                                                         |
| 0.62/15                                      | 32,0                                              | 25,0                                    | 203,0 | Fom Falcon e Mistral                                                                 |
| 0.62/16                                      | 35,0                                              | 27,0                                    | 99,0  | P.V.Tecnic FR902-903                                                                 |
| 0.62/17                                      | 35,0                                              | 27,0                                    | 125,0 | P.V.Tecnic UN2-4F                                                                    |
| 0.62/18                                      | 32                                                | 50                                      | 160   | Lisi Ø 32-50 con doppia ghiera                                                       |
| 0.62/19                                      | 40                                                | 30                                      | 157   | Urban Rotox 363                                                                      |
| 0.62/20                                      | 40,0                                              | 30,0                                    | 166,5 | ELUMATEC                                                                             |
| 0.62/21                                      | 35                                                | 27                                      | 175   | P.V.Tecnic RAY P1                                                                    |
| 0.62/22                                      | 32                                                | 25                                      | 162   | ALTECH LIBRA/MECAL FR 711                                                            |
| 0.62/23                                      | 32                                                | 19                                      | 156   | ALTECH-ABCD-PHOBOS                                                                   |
| 0.62/24                                      | 32                                                |                                         | 174   | KABAN                                                                                |

# 5.221

🇮🇹 **CHIAVE PER MONTAGGIO GHIERE**

🇬🇧 **WRENCH FOR COLLET NUTS**

🇪🇸 **LLAVE DE MONTAJE PARA TUERCAS**

🇫🇷 **CLÉ DE MONTAGE POUR ÉCROUS**



| Articolo/Article<br>Artículo/Article | Descrizione / Description<br>Descripción / Description                        |
|--------------------------------------|-------------------------------------------------------------------------------|
| 5.221/ER32                           | Per ghiera ER32<br>For collet nut ER32<br>Para ER32 tuerca<br>Pour écrou ER32 |
| 5.221/ER40                           | Per ghiera ER40<br>For collet nut ER40<br>Para ER40 tuerca<br>Pour écrou ER40 |



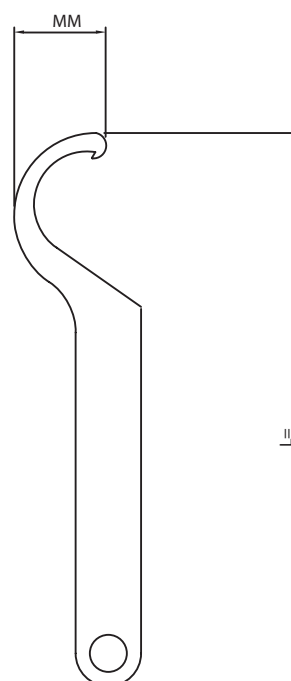
## 5.222

🇮🇹 **CHIAVE A GANCIO PER MONTAGGIO GHIERE**

🇬🇧 **HOOK WRENCH FOR COLLET NUTS**

🇧🇪 **LLAVE DE GANCHO PARA EL MONTAJE DE TUERCAS**

🇫🇷 **CLÉ À CROCHET POUR LE MONTAGE DE ÉCROUS**



| ARTICOLO<br>Article/Artículo/<br>Article | GHIERA DA MM. A MM<br>Collet nut from mm. to mm.<br>Tuerca de mm. a mm. / Écrou de mm. à mm | LUNGHEZZA<br>Lenght<br>Longitud / Longueur |
|------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------|
| 5.222/01                                 | 68-75                                                                                       | 240                                        |
| 5.222/02                                 | 80-90                                                                                       | 280                                        |

# 5.301

🇮🇹 **ANELLI E BOCCOLE DISTANZIALI PER GRUPPI FRESA SU CANOTTI**

🇬🇧 **RINGS AND SPACERS FOR MILLING CUTTER SETS ON SLEEVE TOOL-HOLDERS**

🇪🇸 **ANILLOS Y CASQUILLOS SEPARADORES PARA GRUPOS DE FRESA SU MANGUITOS**

🇫🇷 **ANNEAUX ET BAGUES D'ESPACEMENT POUR LES JEUX DE FRAISES SUR PORTE-OUTILS À MANCHON**



| Articolo/Article<br>Artículo/Article | Ø Esterno/Outer Ø<br>Ø Exterior/Ø Extérieur | Spessore/Thickness<br>Espesor/Épaisseur | Ø Foro/Bore Ø<br>Ø Taladro/Ø Trou |
|--------------------------------------|---------------------------------------------|-----------------------------------------|-----------------------------------|
| 5.301/45x0,1                         | 45                                          | 0,1                                     | 32                                |
| 5.301/45x0,3                         | 45                                          | 0,3                                     |                                   |
| 5.301/45x0,5                         | 45                                          | 0,5                                     |                                   |
| 5.301/45x1                           | 45                                          | 1                                       |                                   |
| 5.301/45x16                          | 45,0                                        | 16,0                                    |                                   |
| 5.301/45x17                          | 45,0                                        | 17,0                                    |                                   |
| 5.301/45x19                          | 45,0                                        | 19,0                                    |                                   |
| 5.301/45x21                          | 45,0                                        | 21,0                                    |                                   |
| 5.301/45x22                          | 45,0                                        | 22,0                                    |                                   |
| 5.301/45x23                          | 45,0                                        | 23,0                                    |                                   |
| 5.301/45x30                          | 45,0                                        | 30,0                                    |                                   |
| 5.301/45x34                          | 45,0                                        | 34,0                                    |                                   |
| 5.301/45x38                          | 45,0                                        | 38,0                                    |                                   |
| 5.301/38x16                          | 38                                          | 16                                      |                                   |
| 5.301/38x17                          | 38                                          | 17                                      |                                   |
| 5.301/38x19                          | 38                                          | 19                                      |                                   |
| 5.301/38x21                          | 38                                          | 21                                      |                                   |
| 5.301/38x22                          | 38                                          | 22                                      |                                   |
| 5.301/38x23                          | 38                                          | 23                                      |                                   |
| 5.301/38x30                          | 38                                          | 30                                      |                                   |
| 5.301/38x34                          | 38                                          | 34                                      |                                   |
| 5.301/38x39                          | 38                                          | 39                                      |                                   |
| 5.301/50x0,1                         | 50                                          | 0,1                                     | 30                                |
| 5.301/50x0,3                         | 50                                          | 0,3                                     |                                   |
| 5.301/50x0,5                         | 50                                          | 0,5                                     |                                   |
| 5.301/50x1                           | 50                                          | 1                                       |                                   |

## 5.301

### ANELLI E BOCCOLE DISTANZIALI PER GRUPPI FRESA SU CANOTTI

### RINGS AND SPACERS FOR MILLING CUTTER SETS ON SLEEVE TOOL-HOLDERS

### ANILLOS Y CASQUILLOS SEPARADORES PARA GRUPOS DE FRESA SU MANGUITOS

### ANNEAUX ET BAGUES D'ESPACEMENT POUR LES JEUX DE FRAISES SUR PORTE-OUTILS À MANCHON

| Articolo/Article<br>Artículo/Article | Ø Esterno/Outer Ø<br>Ø Exterior/Ø Extérieur | Spessore/Thickness<br>Espesor/Épaisseur | Ø Foro/Bore Ø<br>Ø Taladro/Ø Trou |
|--------------------------------------|---------------------------------------------|-----------------------------------------|-----------------------------------|
| 5.301/55x0,1                         | 55                                          | 0,1                                     | 35                                |
| 5.301/55x0,3                         | 55                                          | 0,3                                     |                                   |
| 5.301/55x0,5                         | 55                                          | 0,5                                     |                                   |
| 5.301/55x1                           | 55                                          | 1                                       |                                   |
| 5.301/60x0,1                         | 60                                          | 0,1                                     | 40                                |
| 5.301/60x0,3                         | 60                                          | 0,3                                     |                                   |
| 5.301/60x0,5                         | 60                                          | 0,5                                     |                                   |
| 5.301/60x1                           | 60                                          | 1                                       |                                   |

| Articolo/Article<br>Artículo/Article | Ø Esterno/Outer Ø<br>Ø Exterior/Ø Extérieur | Spessore/Thickness<br>Espesor/Épaisseur | Ø Foro/Bore Ø<br>Ø Taladro/Ø Trou |
|--------------------------------------|---------------------------------------------|-----------------------------------------|-----------------------------------|
| 5.301/50x4                           | 50                                          | 4                                       | 30                                |
| 5.301/55x4                           | 55                                          | 4                                       | 35                                |
| 5.301/60x4                           | 60                                          | 4                                       | 40                                |
| 5.301/50x6                           | 50                                          | 6                                       | 30                                |
| 5.301/55x6                           | 55                                          | 6                                       | 35                                |
| 5.301/60x6                           | 60                                          | 6                                       | 40                                |
| 5.301/50x7                           | 50                                          | 7                                       | 30                                |
| 5.301/55x7                           | 55                                          | 7                                       | 35                                |
| 5.301/60x7                           | 60                                          | 7                                       | 40                                |
| 5.301/50x10                          | 50                                          | 10                                      | 30                                |
| 5.301/55x10                          | 55                                          | 10                                      | 35                                |
| 5.301/60x10                          | 60                                          | 10                                      | 40                                |
| 5.301/50x15                          | 50                                          | 15                                      | 30                                |
| 5.301/55x15                          | 55                                          | 15                                      | 35                                |
| 5.301/60x15                          | 60                                          | 15                                      | 40                                |
| 5.301/50x20                          | 50                                          | 20                                      | 30                                |
| 5.301/55x20                          | 55                                          | 20                                      | 35                                |
| 5.301/60x20                          | 60                                          | 20                                      | 40                                |

# 5.301

🇮🇹 **ANELLI E BOCCOLE DISTANZIALI PER GRUPPI FRESA SU CANOTTI**

🇬🇧 **RINGS AND SPACERS FOR MILLING CUTTER SETS ON SLEEVE TOOL-HOLDERS**

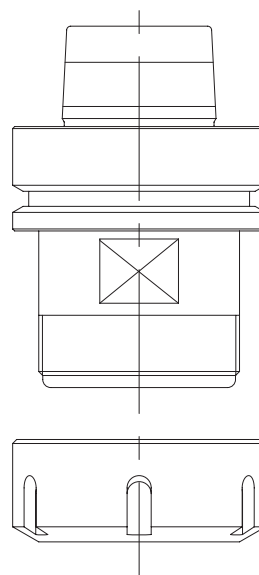
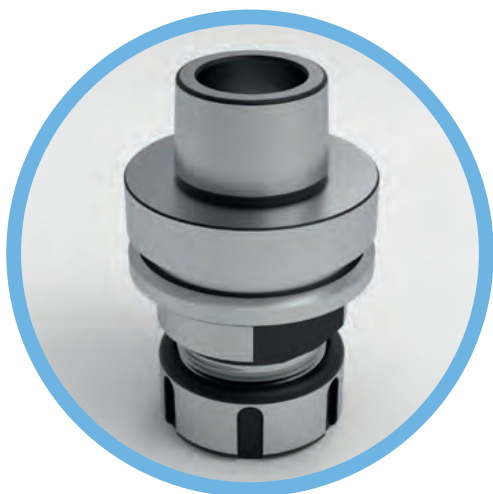
🇪🇸 **ANILLOS Y CASQUILLOS SEPARADORES PARA GRUPOS DE FRESA SU MANGUITOS**

🇫🇷 **ANNEAUX ET BAGUES D'ESPACEMENT POUR LES JEUX DE FRAISES SUR PORTE-OUTILS À MANCHON**

| Articolo/Article<br>Artículo/Article | Ø Esterno/Outer Ø<br>Ø Exterior/Ø Extérieur | Spessore/Thickness<br>Espesor/Épaisseur | Ø Foro/Bore Ø<br>Ø Taladro/Ø Trou |
|--------------------------------------|---------------------------------------------|-----------------------------------------|-----------------------------------|
| 5.301/70x0,1                         | 70                                          | 0,1                                     | 50                                |
| 5.301/70x0,3                         | 70                                          | 0,3                                     |                                   |
| 5.301/70x0,5                         | 70                                          | 0,5                                     |                                   |
| 5.301/70x1                           | 70                                          | 1                                       |                                   |
| 5.301/70x4                           | 70                                          | 4                                       |                                   |
| 5.301/70x6                           | 70                                          | 6                                       |                                   |
| 5.301/70x7                           | 70                                          | 7                                       |                                   |
| 5.301/70x10                          | 70                                          | 10                                      |                                   |
| 5.301/70x15                          | 70                                          | 15                                      |                                   |
| 5.301/70x20                          | 70                                          | 20                                      |                                   |
| 5.301/80x0,1                         | 80                                          | 0,1                                     | 60                                |
| 5.301/80x0,3                         | 80                                          | 0,3                                     |                                   |
| 5.301/80x0,5                         | 80                                          | 0,5                                     |                                   |
| 5.301/80x1                           | 80                                          | 1                                       |                                   |
| 5.301/80x4                           | 80                                          | 4                                       |                                   |
| 5.301/80x6                           | 80                                          | 6                                       |                                   |
| 5.301/80x7                           | 80                                          | 7                                       |                                   |
| 5.301/80x10                          | 80                                          | 10                                      |                                   |
| 5.301/80x15                          | 80                                          | 15                                      |                                   |
| 5.301/80x20                          | 80                                          | 20                                      |                                   |

## 5.411

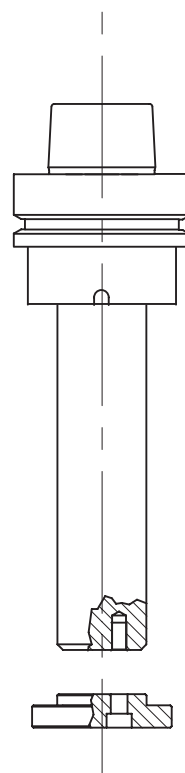
-  **MANDRINO PORTAPINZA ELASTICA PER PANTOGRAFO, CNC E MACCHINE VARIE CON ATTACCO HSK COMPLETO DI GHIERA**
-  **COLLET CHUCK WITH HSK SHANK COMPLETE WITH CLAMPING NUT FOR CNC MACHINING CENTERS**
-  **MANDRIL DE PINZA ELÀSTICA CON CONEXIÓN CÓNICA HSK PARA PANTÓGRAFO, CNC Y VARIAS MÁQUINAS COMPLETA CON TUERCA ANULAR**
-  **MANDRIN À PINCE ÉLASTIQUE POUR PANTOGRAPHES, MACHINES À COMMANDE NUMÉRIQUE ET AUTRES MACHINES AVEC SERRAGE HSK COMPLET AVEC ÉCROU À ANNEAU**



| Articolo/Article<br>Artículo/Article | Descrizione / Description<br>Descripción / Description |                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.411/HSK50F                         | HSK-F50 ER25/32                                        | <p><b>Da montare in macchine CNC per la lavorazione dell'alluminio</b></p> <p>To be installed in CNC machining centers for processing aluminium</p> <p>Para montar en centros de mecanizado CNC para el procesamiento de aluminio</p> <p>Pour le montage sur des machines à commande numérique pour l'usinage de l'aluminium</p> |
| 5.411/HSK63A                         | HSK-A63 ER25/32                                        |                                                                                                                                                                                                                                                                                                                                  |
| 5.411/HSK63E                         | HSK-E63 ER25/32                                        |                                                                                                                                                                                                                                                                                                                                  |
| 5.411/HSK63F                         | HSK-F63 ER25/32                                        |                                                                                                                                                                                                                                                                                                                                  |

## 5.412

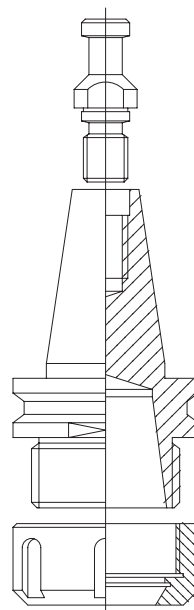
- 🇮🇹 **MANDRINO PORTAUTENSILI PER PANTOGRAFO, CNC E MACCHINE VARIE CON ATTACCO HSK COMPLETO DI FLANGIA**
- 🇬🇧 **CUTTER ARBOR WITH HSK TAPERED SHANK COMPLETE WITH FLANGE FOR PANTOGRAPH, CNC MACHINING CENTERS AND OTHER MACHINES**
- 🇪🇸 **MANDRIL PORTAFRESA CON CONEXIÓN CÓNICA HSK PARA PANTÓGRAFO, CNC Y VARIAS MÁQUINAS COMPLETO CON BRIDA**
- 🇫🇷 **QUEUE CONIQUE HSK POUR PANTOGRAPH, MACHINES À COMMANDE NUMÉRIQUE ET AUTRE MACHINES AVEC SERRAGE HSK COMPLET AVEC BRIDE**



| Articolo/Article<br>Artículo/Article | Descrizione / Description<br>Descripción / Description |                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.412/30x70                          | HSK-F63 Ø30x70                                         | <p><b>Da montare in macchine CNC per la lavorazione dell'alluminio</b></p> <p>To be installed in CNC machining centers for processing aluminium</p> <p>Para montar en centros de mecanizado CNC para el procesamiento de aluminio</p> <p>Pour le montage sur des machines à commande numérique pour l'usinage de l'aluminium</p> |
| 5.412/30x100                         | HSK-F63 Ø30x100                                        |                                                                                                                                                                                                                                                                                                                                  |
| 5.412/35x100                         | HSK-F63 Ø35x100                                        |                                                                                                                                                                                                                                                                                                                                  |
| 5.412/40x100                         | HSK-F63 Ø40x100                                        |                                                                                                                                                                                                                                                                                                                                  |

## 5.413

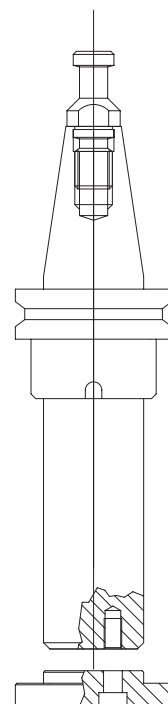
- 🇮🇹 **MANDRINO PORTAPINZA ELASTICA PER PANTOGRAFO, CNC E MACCHINE VARIE CON ATTACCO ISO 30 COMPLETO DI GHIERA E TIRANTE**
- 🇬🇧 COLLET CHUCK ISO 30 COMPLETE WITH CLAMPING NUT FOR CNC MACHINING CENTERS AND OTHER MACHINES
- 🇧🇪 MANDRIL DE PINZA ELÀSTICA ISO 30 COMPLETA CON TUERCA ANULAR PARA CNC Y VARIAS MÁQUINAS
- 🇫🇷 MANDRIN À PINCE ÉLASTIQUE AVEC ÉCROU À ANNEAU POUR MACHINES À COMMANDE NUMÉRIQUE ET AUTRE MACHINES



| Articolo/Article<br>Artículo/Article | Descrizione / Description<br>Descripción / Description |                                                                                                                                                                                                                                                                                                               |
|--------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.413/ER32                           | ISO 30 ER32                                            | <b>Da montare in macchine CNC per la lavorazione dell'alluminio</b><br>To be installed in CNC machining centers for processing aluminium<br>Para montar en centros de mecanizado CNC para el procesamiento de aluminio<br>Pour le montage sur des machines à commande numérique pour l'usinage de l'aluminium |
| 5.413/ER25                           | ISO 30 ER25                                            |                                                                                                                                                                                                                                                                                                               |

## 5.414

- 🇮🇹 **MANDRINO PORTAUTENSILI PER PANTOGRAFO, CNC E MACCHINE VARIE CON ATTACCO ISO 30 COMPLETO DI FLANGIA**
- 🇬🇧 **CUTTER ARBOR WITH ISO 30 TAPERED SHANK COMPLETE WITH FLANGE FOR PANTOGRAPH, CNC MACHINING CENTERS AND OTHER MACHINES**
- 🇪🇸 **MANDRIL PORTAFRESA CON CONEXIÓN CÓNICA ISO 30 PARA PANTÓGRAFO, CNC Y VARIAS MÁQUINAS COMPLETO CON BRIDA**
- 🇫🇷 **QUEUE CONIQUE ISO 30 POUR PANTOGRAPH, MACHINES À COMMANDE NUMÉRIQUE ET AUTRES MACHINES AVEC SERRAGE HSK COMPLET AVEC BRIDE**



Articolo/Article  
Artículo/Article

Descrizione / Description  
Descripción / Description

|              |              |
|--------------|--------------|
| 5.414/30x70  | ISO30 30x70  |
| 5.414/30x100 | ISO30 30x100 |

**Da montare in macchine CNC per la lavorazione dell'alluminio**

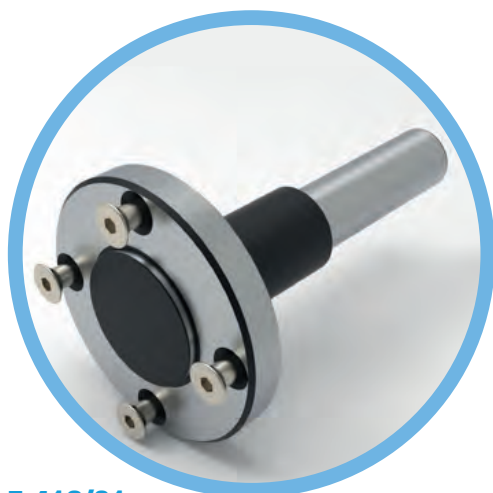
To be installed in CNC machining centers for processing aluminium

Para montar en centros de mecanizado CNC para el procesamiento de aluminio

Pour le montage sur des machines à commande numérique pour l'usinage de l'aluminium

# 5.416

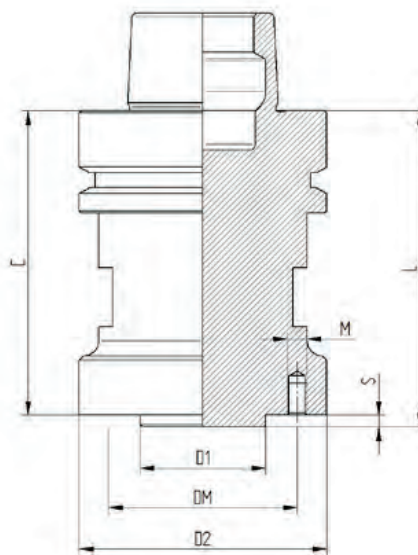
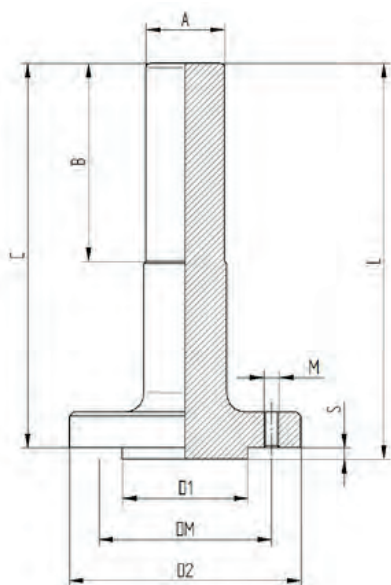
- 🇮🇹 **MANDRINO PORTALAMA (CON ATTACCO STANDARD OPPURE ATTACCO HSK) PER PANTOGRAFO, CNC E MACCHINE VARIE"**
- 🇬🇧 **SAW-BLADE CHUCK (WITH STANDARD OR HSK SHANK) FOR PANTOGRAPH, CNC MACHINING CENTERS AND OTHER MACHINES**
- 🇩🇪 **MANDRIL DE SIERRA (CON MANGO ESTÁNDAR O HSK) PARA PANTÓGRAFO, CNC Y VARIAS MÁQUINAS**
- 🇫🇷 **MANDRIN POUR LAMES (AVEC STANDARD OU HSK SERRAGE) POUR PANTOGRAPH, MACHINES À COMMANDE NUMÉRIQUE ET AUTRES MACHINES**



5.416/01



5.416/HSK



| Articolo/Article<br>Artículo/Article | A | B | C | L | M | S | D1 | DM | D2 |
|--------------------------------------|---|---|---|---|---|---|----|----|----|
| 5.416/01                             |   |   |   |   |   |   |    |    |    |

| Articolo/Article<br>Artículo/Article |  | C | L | M | S | D1 | DM | D2 |
|--------------------------------------|--|---|---|---|---|----|----|----|
| 5.416/HSK50F                         |  |   |   |   |   |    |    |    |
| 5.416/HSK63A                         |  |   |   |   |   |    |    |    |
| 5.416/HSK63E                         |  |   |   |   |   |    |    |    |
| 5.416/HSK63F                         |  |   |   |   |   |    |    |    |

## UTENSILI REALIZZATI SU RICHIESTA – COMPILARE TUTTE LE QUOTE INDICATE

Tools made on request – fill in all the quotes indicated

Herramientas hechas a pedido – llene todas las cuotas indicadas

Outils faits sur demande - remplissez toutes les dimensions indiquées

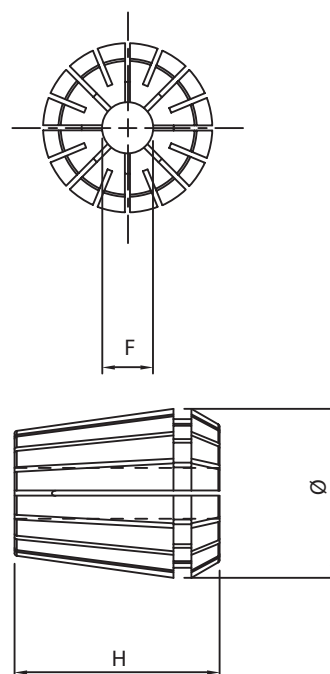
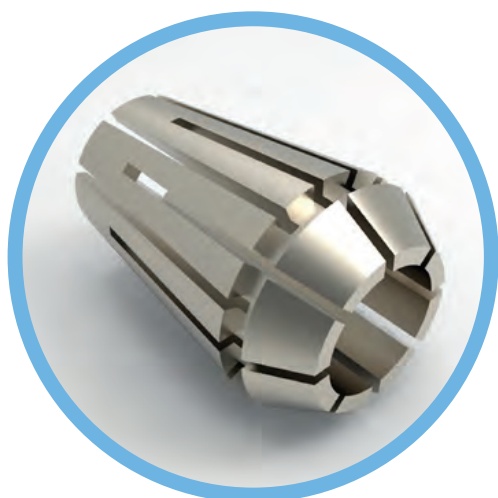
## 5.425

🇮🇹 PINZA ELASTICA SU MANDRINI ARTT. 5.411-5.413

🇬🇧 COLLET FOR CHUCK ARTT. 5.411-5.413

🇪🇸 PINZA ELÁSTICA PARA MANDRIL ARTT.5.411-5.41

🇫🇷 COLLET POUR MANDRIN ARTT.5.411-5.413



| Articolo/Article<br>Artículo/Article | Tipo / Type<br>Tipo / Type | Ø  | H  | “Ø Foro / Bore Ø<br>Ø Taladro / Ø Trou |
|--------------------------------------|----------------------------|----|----|----------------------------------------|
| 5.425/ER25                           | ER 25                      | 26 | 35 | 6÷16                                   |
| 5.425/ER32                           | ER 32                      | 33 | 40 | 3÷20                                   |

### Accessori da applicare agli artt. 5.411 e 5.413

Accessories to be applied to articles 5.411 and 5.413

Accesorios que deben aplicarse a los artículos 5.411 y 5.413

Accessoires à appliquer aux articles 5.411 et 5.413

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