

IT
EN

FORATURA DRILLING

Punte in metallo duro

Carbide drills

ABS
UTENSILI



ABS UTENSILI Industrial tools

ABS UTENSILI è un'azienda italiana con una lunga tradizione familiare di costruzione ed affilatura utensili. Nasce nel 1975 dall'intuizione di Adriano Bernardi supportato dalla moglie Maria. In continua evoluzione tecnologica, è da sempre impegnata sul fronte della qualità e dell'ampliamento della gamma per soddisfare le esigenze delle industrie meccaniche. Flessibile, impegnata oltre che nella produzione di serie anche nella creazione di pezzi su disegno e misura, cura le fasi di consulenza, progettazione e lavorazione fornendo inoltre veloci consegne e pronta assistenza garantita da qualificati tecnici.

Come azienda familiare, per ABS, è di importanza fondamentale instaurare un rapporto di fiducia, rispetto e di stretta collaborazione con i clienti.

ABS UTENSILI is an Italian company with a long tradition of tool production and reconditioning. It was created in 1975 from the intuition of Adriano Bernardi and his wife Maria.

The company has always been committed to continuous technological development, quality and extension of its range in order to meet the needs of mechanical industries. Extremely flexible, the company is involved not only in standard production, but also in the development of parts according to customers' designs and sizes. The greatest attention is paid to consulting, designing and processing, as well as to ensuring prompt deliveries and assistance by qualified technicians. As a family business, for ABS, it is of fundamental importance to establish a relationship of trust, respect and close collaboration with customers

Paesi in cui siamo presenti: più di 50 Countries where we are present: more than 50

Il Gruppo Loreb rappresenta ad oggi una realtà presente in oltre 50 paesi. Proiettato ad affermarsi sempre più incisivamente nel mercato globale. Le strategie che ci contraddistinguono sono finalizzate a raggiungere l'Eccellenza in termini di qualità del prodotto e del servizio.

Grazie alle sedi di distribuzione e ai centri di assistenza presenti nel territorio, riusciamo a conoscere da vicino le esigenze dei Clienti e Partners, garantendo la nostra presenza diretta sul mercato.

LOREB GROUP at present is operating in more than 50 countries with the aim of establishing themselves ever more incisively on the global market. Our working-strategies have the purpose of reaching excellence in terms of quality both of the products and of the service. Thanks to the distribution offices and service centres in the area we can have a close look at the needs of our clients and partners and guarantee our presence on the market.



1975

Dal semplice progetto, abbiamo costruito una realtà tangibile: ABS Utensili.

From a simple project we have built a tangible reality: ABS Utensili.

1995 - 2004

Ampliamo la produzione con nuove sedi in Italia per rispondere alle necessità dei nostri clienti. Otteniamo la certificazione ISO 9001:2008, un risultato molto importante, che conferma le nostre esperienze e competenze.

We expand production with new offices in Italy to meet the needs of our customers. We obtain the ISO 9001: 2008 certification, a very important result, which confirms our experiences and skills

2008 - 2016

Continuiamo l'espansione nel mercato internazionale fondando il Gruppo Loreb. Negli anni successivi ABS Utensili allarga i propri orizzonti inaugurando nuove filiali in Serbia, Slovenia, Croazia, Bosnia ed Ungheria.

We continue the expansion in the international market by founding the Loreb Group. In the following years ABS Utensili broadens its horizons by opening new branches in Serbia, Slovenia, Croatia, Bosnia and Hungary.

2020

A.B.S. Utensili compie 45 anni di successi ed impegno costante.

A.B.S. Tool celebrates 45 years of success and constant engage.

Today

Vogliamo soddisfare in modo sempre più puntuale e preciso le richieste dei nostri clienti, per essere partner nel loro successo.

We want to satisfy our customers requests in an increasingly punctual and precise way, to be partners in their success.

PRODOTTI / PRODUCTS

FRESATURA
Milling

FORATURA
Drilling

ALESATURA
Reaming

TAGLIO
Cut

SETTORI - SECTORS

**Più di 45 anni di esperienza sulla
produzione ed affilatura più rivestimento
di utensili in serie e customizzati per i più
importanti settori industriali:**

Ci occupiamo della produzione, affilatura e rivestimento di utensili in serie e customizzati per i più importanti settori industriali: **automotive, arredamento, aerospaziale, alimentare, riscaldamento e refrigerazione, navale, farmaceutico e medicale.**

Lo facciamo mettendo in campo tutta la nostra esperienza, da più di 45 anni.



AUTOMOTIVE

Automotive



NAVALE

Naval



AEROSPAZIALE

Aerospace



**RISCALDAMENTO E
REFRIGERAZIONE**

Heating and cooling

SPECIALE
Special Tools

LIME ROTATIVE
Rotary Burs

SERVICE AFFILATURA E RIVESTIMENTO
Reconditioning And Coating Service

More than 45 years of experience on the production and reconditioning of tools in series and customized for most important industrial sectors

We are engaged in the production, sharpening and coating of mass-produced and customized tools for major industries: **automotive, furniture, aerospace, food, heating and refrigeration, naval, pharmaceutical and medical.**

We do this by putting in play all our experience, for more than 45 years.



ARREDAMENTO

Decor



ALIMENTARE

Food



FARMACEUTICO

Pharmaceutical



MEDICALE

Medical

Garanzia ed affidabilità

Un'azienda che lavora bene si riconosce innanzitutto dal metodo. A partire dall'attenzione rivolta alla selezione delle materie prime, passando per le procedure che garantiscono massima sicurezza di processo per ogni singolo pezzo o lavorazione effettuata fino al controllo qualità dello stesso.

Il metodo deve essere supportato dalla dinamicità del reparto ricerca e sviluppo sempre attento a cogliere nuovi trend e movimenti del mercato sui quali bisogna arrivare possibilmente per primi; infine, un approccio problem solving, che ci rende partner più che semplici fornitori.

ABS

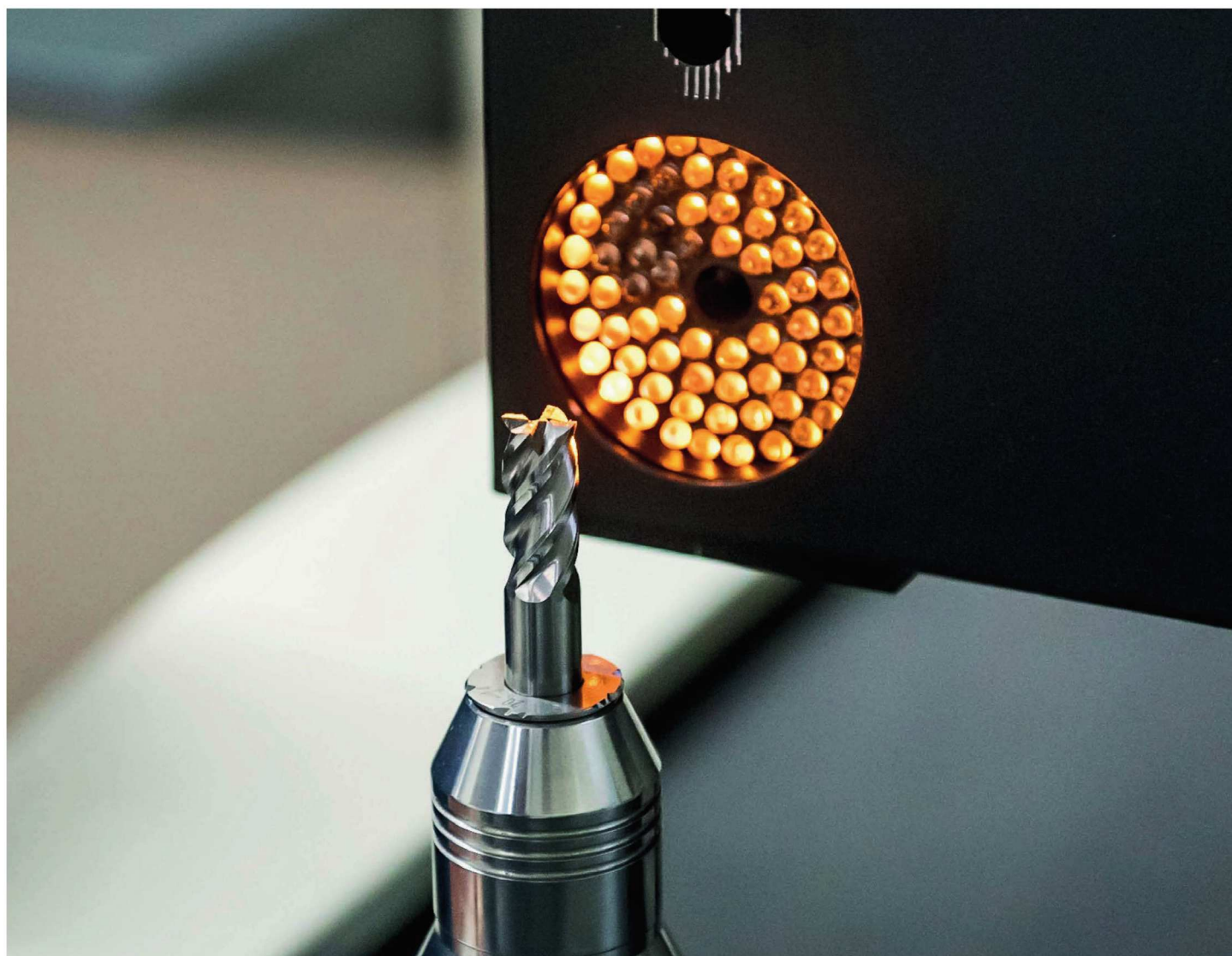
UTENSILI



Certificato N° IT16/0648
ISO 9001 / UNI EN ISO 9001
Ed. 2015

Warranty and reliability

A company that works well can be recognized first and foremost by its method. Starting from the attention paid to the selection of raw materials, through the procedures that ensure maximum process safety for each individual part or processing performed up to quality control. The method must be supported by the dynamism of the research and development department, always on the lookout for new trends and market movements to which we need to possibly get there first; finally, a problem solving approach, which makes us partners rather than just suppliers.





135_{mila}

pezzi prodotti in un anno
manufactured pieces per year

+100

numero macchine
number of machines

280_{mila}

pezzi affilati in un anno
reconditioning pieces per year

+50_{mila}

pezzi a magazzino
stock pieces

LAVORIAMO PER DARVI IL VANTAGGIO DECISIVO

We work to give you the decisive advantage



SUPPORTO TECNICO-COMMERCIALE

La nostra rete di vendita analizza le esigenze del cliente e lo supporta con l'obiettivo di proporre una soluzione o ottimizzare una lavorazione.

Technical-commercial support

Our sales network analyzes customer needs and supports them with the goal of proposing a solution or optimizing a processing.



PROGETTAZIONE

L'utensile proposto viene sviluppato in ufficio progettazione che, grazie a sofisticati programmi dedicati al settore metalmeccanico, crea il disegno tecnico 3D.

Design

The proposed tool is developed in the design office, which, using sophisticated programs dedicated to the metalworking industry creates the 3D technical drawing.



INTERAZIONE COSTANTE

La comunicazione tra ABS ed il cliente è fondamentale per soddisfare le sue necessità in ogni fase, dalla progettazione, alla produzione o lavorazione dell'utensile.

Constant interaction

Communication between ABS and customer is critical to meet his needs at every stage, from the design, to the production or machining of the tool.



SERVIZIO DI RITIRO E CONSEGNA

Il ritiro del materiale in conto lavoro e la consegna dello stesso o del materiale in conto vendita sono garantiti dalla presenza costante dei nostri agenti nel territorio, supportati dai nostri corrieri e dalla possibilità, offerta al cliente, di usufruire dell'area riservata ABS per la prenotazione ritiro e consegna automatica.

Collection and delivery service

The pickup of material on account of work and the delivery of the work or material on account of sale are guaranteed by the constant presence of our agents in the territory, supported by our couriers and the possibility, offered to the customer, to use the ABS reserved area for automatic pickup and delivery booking.



ASSISTENZA POST VENDITA

Il know-how tecnico della rete vendita e del back office è sempre a disposizione del cliente. La struttura interna di ABS è organizzata per la gestione dei reclami e delle azioni correttive necessarie per dare una soluzione tempestiva.

Assistance after sales

The technical know-how of the sales network and back office is always at the customer's disposal. ABS's internal structure is organized to handle complaints and corrective actions necessary to give a timely solution.





**La precisione
è il vero segreto
per ottenere qualità
e durata nel tempo.**

*Precision is the real secret to achieving quality
and durability.*

DRILLING

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PUNTA ELICOIDALE A 3 ELICHE, NEUTRA, SERIE A511	3-FLUTES TWIST DRILL, UNCOATING, TYPE A511	6
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PUNTA ELICOIDALE, NEUTRA, SERIE A520	TWIST DRILL, UNCOATING, TYPE A520	8
PUNTA ELICOIDALE, W-TIN, SERIE A520	TWIST DRILL, W-TIN, TYPE A520	10
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PUNTA ELICOIDALE CON GAMBO RINFORZATO 1/100, NEUTRA, SERIE A521	TWIST DRILL WITH REINFORCED SHANK 1/100, UNCOATING, TYPE A521	14
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PUNTA A CENTRARE 100°, NEUTRA, SERIE A551	CENTER DRILL 100°, UNCOATING, TYPE A551	20
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PUNTA ELICOIDALE 5XD AD ALTE PRESTAZIONI, S-TiAIN, SERIE A620	SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 5XD, S-TiAIN, TYPE A620	31
PUNTA ELICOIDALE 3XD AD ALTE PRESTAZIONI CON RIVESTIMENTO MULTIFUNZIONALE, RED-Plus, SERIE A610	SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 3XD WITH MULTIFUNCTIONAL COATING, RED-Plus, TYPE A610	32
PUNTA ELICOIDALE 5XD AD ALTE PRESTAZIONI CON RIVESTIMENTO MULTIFUNZIONALE, RED-Plus, SERIE A620	SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 5XD WITH MULTIFUNCTIONAL COATING, RED-Plus, TYPE A620	33
PUNTA ELICOIDALE 3XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, S-TiAIN, SERIE A630	SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 3XD WITH INTERNAL COOLING, S-TiAIN, TYPE A630	34
PUNTA ELICOIDALE 5XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, S-TiAIN, SERIE A640	SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 5XD WITH INTERNAL COOLING, S-TiAIN, TYPE A640	35
PUNTA ELICOIDALE 3XD AD ALTE PRESTAZIONI CON RIVESTIMENTO MULTIFUNZIONALE, RED-Plus, SERIE A630	SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 3XD WITH MULTIFUNCTIONAL COATING, RED-Plus, TYPE A630	36
PUNTA ELICOIDALE 5XD AD ALTE PRESTAZIONI CON RIVESTIMENTO MULTIFUNZIONALE, RED-Plus, SERIE A640	SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 5XD WITH MULTIFUNCTIONAL COATING, RED-Plus, TYPE A640	37
PUNTA ELICOIDALE 8XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, S-TiAIN, SERIE A650	SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 8XD WITH INTERNAL COOLING, S-TiAIN, TYPE A650	38
PUNTA ELICOIDALE 8XD AD ALTE PRESTAZIONI CON RIVESTIMENTO MULTIFUNZIONALE, RED-Plus, SERIE A650	SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 8XD WITH MULTIFUNCTIONAL COATING, RED-Plus, TYPE A650	39
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PUNTA ELICOIDALE 20XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, S-TiAIN, SERIE A680	SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 20XD WITH INTERNAL COOLING, S-TiAIN, TYPE A680	41
PUNTA ELICOIDALE 5XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, ZrN, SERIE A622	SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 5XD WITH INTERNAL COOLING, ZrN, TYPE A622	42
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PUNTA ELICOIDALE 8XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, ZrN, SERIE A651	SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 8XD WITH INTERNAL COOLING, ZrN, TYPE A651	44
PUNTA ELICOIDALE 8XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, DLC, SERIE A651	SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 8XD WITH INTERNAL COOLING, DLC, TYPE A651	45
PUNTA MD 5XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE PER GHISA, S-TiAIN, SERIE A621	SOLID CARBIDE HIGH PERFORMANCE DRILL 5XD WITH INTERNAL COOLING FOR IRON MATERIALS, S-TiAIN, TYPE A621	46
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MICRO PUNTA ELICOIDALE 8XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, S-TiAIN, SERIE A652	SOLID CARBIDE HIGH PERFORMANCE TWIST MICRO DRILL 8XD WITH INTERNAL COOLING, S-TiAIN, TYPE A652	48
MICRO PUNTA ELICOIDALE 12XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, S-TiAIN, SERIE A661	SOLID CARBIDE HIGH PERFORMANCE TWIST MICRO DRILL 12XD WITH INTERNAL COOLING, S-TiAIN, TYPE A661	49
PUNTA 3XD AD ALTE PRESTAZIONI DENTI DRITTI, S-TiAIN, SERIE A710	HIGH SPEED STRAIGHT FLUTE DRILLS 3XD, S-TiAIN, TYPE A710	50
PUNTA 5XD PER FORATURA E ALESATURA ELICOIDALE CON FORI DI LUBRIFICAZIONE, S-TiAIN, SERIE A624	DRILLING AND REAMING DRILL 5XD WITH INTERNAL COOLING, S-TiAIN, TYPE A624	51
PUNTA PER FORATURA E ALESATURA, NEUTRA, SERIE A810	DRILLING AND REAMING DRILL, UNCOATING, TYPE A810	52
PUNTA PER FORATURA E ALESATURA, AlCrN, SERIE A810	DRILLING AND REAMING DRILL, AlCrN, TYPE A810	53
PUNTA PER FORATURA E ALESATURA, NEUTRA, SERIE A820	DRILLING AND REAMING DRILL, UNCOATING, TYPE A820	54
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INFORMAZIONI TECNICHE | TECHNICAL INFORMATION

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PUNTA ELICOIDALE, NEUTRA, SERIE A510

TWIST DRILL, UNCOATING, TYPE A510

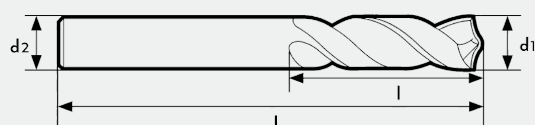


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, alluminio, leghe, rame, ottone, bronzo, materie plastiche

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, aluminium, alloys, copper, brass, bronze, plastic materials



Design and technical spec

Helix angle	30°
Point angle	118°
Tolerance d1	h6 (d2:h6)
Other specifications	DIN 1897
Finish	Bright finished
Coating	uncoated

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A510010026006	1.00	1.00	26	6	•
A510011028007	1.10	1.10	28	7	•
A510012030008	1.20	1.20	30	8	•
A510013030008	1.30	1.30	30	8	•
A510014032009	1.40	1.40	32	9	•
A510015032009	1.50	1.50	32	9	•
A510016034010	1.60	1.60	34	10	•
A510017034010	1.70	1.70	34	10	•
A510018036011	1.80	1.80	36	11	•
A510019036011	1.90	1.90	36	11	•
A510020038012	2.00	2.00	38	12	•
A510021038012	2.10	2.10	38	12	•
A510022040013	2.20	2.20	40	13	•
A510023040013	2.30	2.30	40	13	•
A510024043014	2.40	2.40	43	14	•
A510025043014	2.50	2.50	43	14	•
A510026043014	2.60	2.60	43	14	•
A510027046016	2.70	2.70	46	16	•
A510028046016	2.80	2.80	46	16	•
A510029046016	2.90	2.90	46	16	•
A510030046016	3.00	3.00	46	16	•
A510031049018	3.10	3.10	49	18	•
A510032049018	3.20	3.20	49	18	•
A510033049018	3.30	3.30	49	18	•
A510034052020	3.40	3.40	52	20	•
A510035052020	3.50	3.50	52	20	•
A510036052020	3.60	3.60	52	20	•
A510037052020	3.70	3.70	52	20	•
A510038055022	3.80	3.80	55	22	•
A510039055022	3.90	3.90	55	22	•
A510040055022	4.00	4.00	55	22	•
A510041055022	4.10	4.10	55	22	•
A510042055022	4.20	4.20	55	22	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A510043058024	4.30	4.30	58	24	•
A510044058024	4.40	4.40	58	24	•
A510045058024	4.50	4.50	58	24	•
A510046058024	4.60	4.60	58	24	•
A510047058024	4.70	4.70	58	24	•
A510048062026	4.80	4.80	62	26	•
A510049062026	4.90	4.90	62	26	•
A510050062026	5.00	5.00	62	26	•
A510051062026	5.10	5.10	62	26	•
A510052062026	5.20	5.20	62	26	•
A510053062026	5.30	5.30	62	26	•
A510054066028	5.40	5.40	66	28	•
A510055066028	5.50	5.50	66	28	•
A510056066028	5.60	5.60	66	28	•
A510057066028	5.70	5.70	66	28	•
A510058066028	5.80	5.80	66	28	•
A510059066028	5.90	5.90	66	28	•
A510060066028	6.00	6.00	66	28	•
A510061070031	6.10	6.10	70	31	•
A510062070031	6.20	6.20	70	31	•
A510063070031	6.30	6.30	70	31	•
A510064070031	6.40	6.40	70	31	•
A510065070031	6.50	6.50	70	31	•
A510066070031	6.60	6.60	70	31	•
A510067070031	6.70	6.70	70	31	•
A510068074034	6.80	6.80	74	34	•
A510069074034	6.90	6.90	74	34	•
A510070074034	7.00	7.00	74	34	•
A510071074034	7.10	7.10	74	34	•
A510072074034	7.20	7.20	74	34	•
A510073074034	7.30	7.30	74	34	•
A510074074034	7.40	7.40	74	34	•
A510075074034	7.50	7.50	74	34	•

• **Disponibile a magazzino / in stock / auf Lager / en stock**

◦ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A510076079037	7.60	7.60	79	37	•
A510077079037	7.70	7.70	79	37	•
A510078079037	7.80	7.80	79	37	•
A510079079037	7.90	7.90	79	37	•
A510080079037	8.00	8.00	79	37	•
A510081079037	8.10	8.10	79	37	•
A510082079037	8.20	8.20	79	37	•
A510083079037	8.30	8.30	79	37	•
A510084079037	8.40	8.40	79	37	•
A510085079037	8.50	8.50	79	37	•
A510086084040	8.60	8.60	84	40	•
A510087084040	8.70	8.70	84	40	•
A510088084040	8.80	8.80	84	40	•
A510089084040	8.90	8.90	84	40	•
A510090084040	9.00	9.00	84	40	•
A510091084040	9.10	9.10	84	40	•
A510092084040	9.20	9.20	84	40	•
A510093084040	9.30	9.30	84	40	•
A510094084040	9.40	9.40	84	40	•
A510095084040	9.50	9.50	84	40	•
A510096089043	9.60	9.60	89	43	•
A510097089043	9.70	9.70	89	43	•
A510098089043	9.80	9.80	89	43	•
A510099089043	9.90	9.90	89	43	•
A510100089043	10.00	10.00	89	43	•
A510101089043	10.10	10.10	89	43	•
A510102089043	10.20	10.20	89	43	•
A510105089043	10.50	10.50	89	43	•
A510110095047	11.00	11.00	95	47	•
A510115095047	11.50	11.50	95	47	○
A510120102051	12.00	12.00	102	51	○
A510125102051	12.50	12.50	102	51	○
A510127102051	12.70	12.70	102	51	○
A510130102051	13.00	13.00	102	51	○
A510140107054	14.00	14.00	107	54	○
A510145111056	14.50	14.50	111	56	○
A510150111056	15.00	15.00	111	56	○
A510160115058	16.00	16.00	115	58	○
A510180123062	18.00	18.00	123	62	○
A510200131066	20.00	20.00	131	66	○

PUNTA ELICOIDALE, W-TIN, SERIE A510

TWIST DRILL, W-TIN, TYPE A510

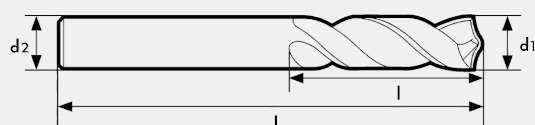


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, alluminio, leghe, rame, ottone, bronzo, materie plastiche

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, aluminium, alloys, copper, brass, bronze, plastic materials



Design and technical spec

Helix angle	30°
Point angle	118°
Tolerance d1	h6 (d2:h6)
Other specifications	DIN 1897
Finish	Coating
Coating	W-TIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A510020038012W	2.00	2.00	38	12	•
A510021038012W	2.10	2.10	38	12	•
A510022040013W	2.20	2.20	40	13	•
A510023040013W	2.30	2.30	40	13	•
A510024043014W	2.40	2.40	43	14	•
A510025043014W	2.50	2.50	43	14	•
A510026043014W	2.60	2.60	43	14	•
A510027046016W	2.70	2.70	46	16	•
A510028046016W	2.80	2.80	46	16	•
A510029046016W	2.90	2.90	46	16	•
A510030046016W	3.00	3.00	46	16	•
A510031049018W	3.10	3.10	49	18	•
A510032049018W	3.20	3.20	49	18	•
A510033049018W	3.30	3.30	49	18	•
A510034052020W	3.40	3.40	52	20	•
A510035052020W	3.50	3.50	52	20	•
A510036052020W	3.60	3.60	52	20	•
A510037052020W	3.70	3.70	52	20	•
A510038055022W	3.80	3.80	55	22	•
A510039055022W	3.90	3.90	55	22	•
A510040055022W	4.00	4.00	55	22	•
A510041055022W	4.10	4.10	55	22	•
A510042055022W	4.20	4.20	55	22	•
A510043058024W	4.30	4.30	58	24	•
A510044058024W	4.40	4.40	58	24	•
A510045058024W	4.50	4.50	58	24	•
A510046058024W	4.60	4.60	58	24	•
A510047058024W	4.70	4.70	58	24	•
A510048062026W	4.80	4.80	62	26	•
A510049062026W	4.90	4.90	62	26	•
A510050062026W	5.00	5.00	62	26	•
A510051062026W	5.10	5.10	62	26	•
A510052062026W	5.20	5.20	62	26	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A510053062026W	5.30	5.30	62	26	•
A510054066028W	5.40	5.40	66	28	•
A510055066028W	5.50	5.50	66	28	•
A510056066028W	5.60	5.60	66	28	•
A510057066028W	5.70	5.70	66	28	•
A510058066028W	5.80	5.80	66	28	•
A510059066028W	5.90	5.90	66	28	•
A510060066028W	6.00	6.00	66	28	•
A510061070031W	6.10	6.10	70	31	•
A510062070031W	6.20	6.20	70	31	•
A510063070031W	6.30	6.30	70	31	•
A510064070031W	6.40	6.40	70	31	•
A510065070031W	6.50	6.50	70	31	•
A510066070031W	6.60	6.60	70	31	•
A510067070031W	6.70	6.70	70	31	•
A510068074034W	6.80	6.80	74	34	•
A510069074034W	6.90	6.90	74	34	•
A510070074034W	7.00	7.00	74	34	•
A510071074034W	7.10	7.10	74	34	•
A510072074034W	7.20	7.20	74	34	•
A510073074034W	7.30	7.30	74	34	•
A510074074034W	7.40	7.40	74	34	•
A510075074034W	7.50	7.50	74	34	•
A510076079037W	7.60	7.60	79	37	•
A510077079037W	7.70	7.70	79	37	•
A510078079037W	7.80	7.80	79	37	•
A510079079037W	7.90	7.90	79	37	•
A510080079037W	8.00	8.00	79	37	•
A510081079037W	8.10	8.10	79	37	•
A510082079037W	8.20	8.20	79	37	•
A510083079037W	8.30	8.30	79	37	•
A510084079037W	8.40	8.40	79	37	•
A510085079037W	8.50	8.50	79	37	•

• Disponibile a magazzino / in stock / auf Lager / en stock

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A510086084040W	8.60	8.60	84	40	●
A510087084040W	8.70	8.70	84	40	●
A510088084040W	8.80	8.80	84	40	●
A510089084040W	8.90	8.90	84	40	●
A510090084040W	9.00	9.00	84	40	●
A510091084040W	9.10	9.10	84	40	●
A510092084040W	9.20	9.20	84	40	●
A510093084040W	9.30	9.30	84	40	●
A510094084040W	9.40	9.40	84	40	●
A510095084040W	9.50	9.50	84	40	●
A510096089043W	9.60	9.60	89	43	●
A510097089043W	9.70	9.70	89	43	●
A510098089043W	9.80	9.80	89	43	●
A510099089043W	9.90	9.90	89	43	●
A510100089043W	10.00	10.00	89	43	●
A510101089043W	10.10	10.10	89	43	●
A510102089043W	10.20	10.20	89	43	●
A510105089043W	10.50	10.50	89	43	●
A510110095047W	11.00	11.00	95	47	●
A510115095047W	11.50	11.50	95	47	○
A510120102051W	12.00	12.00	102	51	○
A510125102051W	12.50	12.50	102	51	○
A510127102051W	12.70	12.70	102	51	○
A510130102051W	13.00	13.00	102	51	○
A510140107054W	14.00	14.00	107	54	○
A510145111056W	14.50	14.50	111	56	○
A510150111056W	15.00	15.00	111	56	○
A510160115058W	16.00	16.00	115	58	○
A510180123062W	18.00	18.00	123	62	○
A510200131066W	20.00	20.00	131	66	○

PUNTA ELICOIDALE A 3 ELICHE, NEUTRA, SERIE A511

3-FLUTES TWIST DRILL, UNCOATING, TYPE A511

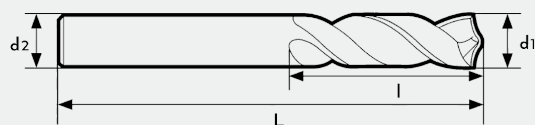


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, alluminio, leghe, rame, ottone, bronzo, materie plastiche

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, aluminium, alloys, copper, brass, bronze, plastic materials



Design and technical spec

Helix angle	30°
Point angle	150°
Tolerance d1	h6 (d2:h6)
Other specifications	DIN 1897
Finish	Bright finished
Coating	uncoated

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A511030046016	3.00	3.00	46	16	•
A511031049018	3.10	3.10	49	18	•
A511032049018	3.20	3.20	49	18	•
A511033049018	3.30	3.30	49	18	•
A511034052020	3.40	3.40	52	20	•
A511035052020	3.50	3.50	52	20	•
A511036052020	3.60	3.60	52	20	•
A511037052020	3.70	3.70	52	20	•
A511038055022	3.80	3.80	55	22	•
A511039055022	3.90	3.90	55	22	•
A511040055022	4.00	4.00	55	22	•
A511041055022	4.10	4.10	55	22	•
A511042055022	4.20	4.20	55	22	•
A511043058024	4.30	4.30	58	24	•
A511044058024	4.40	4.40	58	24	•
A511045058024	4.50	4.50	58	24	•
A511046058024	4.60	4.60	58	24	•
A511047058024	4.70	4.70	58	24	•
A511048062026	4.80	4.80	62	26	•
A511049062026	4.90	4.90	62	26	•
A511050062026	5.00	5.00	62	26	•
A511051062026	5.10	5.10	62	26	•
A511052062026	5.20	5.20	62	26	•
A511053062026	5.30	5.30	62	26	•
A511054066028	5.40	5.40	66	28	•
A511055066028	5.50	5.50	66	28	•
A511056066028	5.60	5.60	66	28	•
A511057066028	5.70	5.70	66	28	•
A511058066028	5.80	5.80	66	28	•
A511059066028	5.90	5.90	66	28	•
A511060066028	6.00	6.00	66	28	•
A511061070031	6.10	6.10	70	31	•
A511062070031	6.20	6.20	70	31	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A511063070031	6.30	6.30	70	31	•
A511064070031	6.40	6.40	70	31	•
A511065070031	6.50	6.50	70	31	•
A511066070031	6.60	6.60	70	31	•
A511067070031	6.70	6.70	70	31	•
A511068074034	6.80	6.80	74	34	•
A511069074034	6.90	6.90	74	34	•
A511070074034	7.00	7.00	74	34	•
A511075074034	7.50	7.50	74	34	•
A511080079037	8.00	8.00	79	37	•
A511085079037	8.50	8.50	79	37	•
A511090084040	9.00	9.00	84	40	•
A511095084040	9.50	9.50	84	40	•
A511100089043	10.00	10.00	89	43	•
A511120102051	12.00	12.00	102	51	•
A511140107054	14.00	14.00	107	54	•

• Disponibile a magazzino / in stock / auf Lager / en stock

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE A 3 ELICHE, W-TIN, SERIE A511

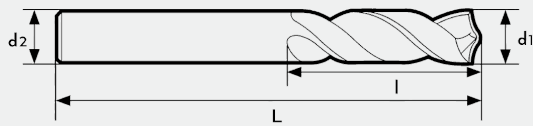
3-FLUTES TWIST DRILL, W-TIN, TYPE A511

**CARATTERISTICHE**

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, alluminio, leghe, rame, ottone, bronzo, materie plastiche

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, aluminium, alloys, copper, brass, bronze, plastic materials



Design and technical spec

Helix angle	30°
Point angle	150°
Tolerance d1	h6 (d2:h6)
Other specifications	DIN 1897
Finish	Coating
Coating	W-TIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A511030046016W	3.00	3.00	46	16	•
A511031049018W	3.10	3.10	49	18	•
A511032049018W	3.20	3.20	49	18	•
A511033049018W	3.30	3.30	49	18	•
A511034052020W	3.40	3.40	52	20	•
A511035052020W	3.50	3.50	52	20	•
A511036052020W	3.60	3.60	52	20	•
A511037052020W	3.70	3.70	52	20	•
A511038055022W	3.80	3.80	55	22	•
A511039055022W	3.90	3.90	55	22	•
A511040055022W	4.00	4.00	55	22	•
A511041055022W	4.10	4.10	55	22	•
A511042055022W	4.20	4.20	55	22	•
A511043058024W	4.30	4.30	58	24	•
A511044058024W	4.40	4.40	58	24	•
A511045058024W	4.50	4.50	58	24	•
A511046058024W	4.60	4.60	58	24	•
A511047058024W	4.70	4.70	58	24	•
A511048062026W	4.80	4.80	62	26	•
A511049062026W	4.90	4.90	62	26	•
A511050062026W	5.00	5.00	62	26	•
A511051062026W	5.10	5.10	62	26	•
A511052062026W	5.20	5.20	62	26	•
A511053062026W	5.30	5.30	62	26	•
A511054066028W	5.40	5.40	66	28	•
A511055066028W	5.50	5.50	66	28	•
A511056066028W	5.60	5.60	66	28	•
A511057066028W	5.70	5.70	66	28	•
A511058066028W	5.80	5.80	66	28	•
A511059066028W	5.90	5.90	66	28	•
A511060066028W	6.00	6.00	66	28	•
A511061070031W	6.10	6.10	70	31	•
A511062070031W	6.20	6.20	70	31	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A511063070031W	6.30	6.30	70	31	•
A511064070031W	6.40	6.40	70	31	•
A511065070031W	6.50	6.50	70	31	•
A511066070031W	6.60	6.60	70	31	•
A511067070031W	6.70	6.70	70	31	•
A511068074034W	6.80	6.80	74	34	•
A511069074034W	6.90	6.90	74	34	•
A511070074034W	7.00	7.00	74	34	•
A511075074034W	7.50	7.50	74	34	•
A511080079037W	8.00	8.00	79	37	•
A511085079037W	8.50	8.50	79	37	•
A511090084040W	9.00	9.00	84	40	•
A511095084040W	9.50	9.50	84	40	•
A511100089043W	10.00	10.00	89	43	•
A511120102051W	12.00	12.00	102	51	•
A511140107054W	14.00	14.00	107	54	•

• Disponibile a magazzino / in stock / auf Lager / en stock

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE, NEUTRA, SERIE A520

TWIST DRILL, UNCOATING, TYPE A520

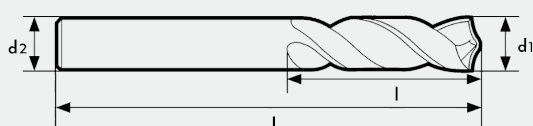


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, alluminio, leghe, rame, ottone, bronzo, materie plastiche

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, aluminium, alloys, copper, brass, bronze, plastic materials



Design and technical spec

Helix angle	30°
Point angle	118°
Tolerance d1	h6 (d2:h6)
Other specifications	DIN 338
Finish	Bright finished
Coating	uncoated

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A520007028009	0.70	0.70	28	9	•
A520008030010	0.80	0.80	30	10	•
A520009032011	0.90	0.90	32	11	•
A520010034012	1.00	1.00	34	12	•
A520011036014	1.10	1.10	36	14	•
A520012038016	1.20	1.20	38	16	•
A520013038016	1.30	1.30	38	16	•
A520014040018	1.40	1.40	40	18	•
A520015040018	1.50	1.50	40	18	•
A520016043020	1.60	1.60	43	20	•
A520017043020	1.70	1.70	43	20	•
A520018046022	1.80	1.80	46	22	•
A520019046022	1.90	1.90	46	22	•
A520020049024	2.00	2.00	49	24	•
A520021049024	2.10	2.10	49	24	•
A520022053027	2.20	2.20	53	27	•
A520023053027	2.30	2.30	53	27	•
A520024057030	2.40	2.40	57	30	•
A520025057030	2.50	2.50	57	30	•
A520026057030	2.60	2.60	57	30	•
A520027061033	2.70	2.70	61	33	•
A520028061033	2.80	2.80	61	33	•
A520029061033	2.90	2.90	61	33	•
A520030061033	3.00	3.00	61	33	•
A520031065036	3.10	3.10	65	36	•
A520032065036	3.20	3.20	65	36	•
A520033065036	3.30	3.30	65	36	•
A520034070039	3.40	3.40	70	39	•
A520035070039	3.50	3.50	70	39	•
A520036070039	3.60	3.60	70	39	•
A520037070039	3.70	3.70	70	39	•
A520038075043	3.80	3.80	75	43	•
A520039075043	3.90	3.90	75	43	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A520040075043	4.00	4.00	75	43	•
A520041075043	4.10	4.10	75	43	•
A520042075043	4.20	4.20	75	43	•
A520043080047	4.30	4.30	80	47	•
A520044080047	4.40	4.40	80	47	•
A520045080047	4.50	4.50	80	47	•
A520046080047	4.60	4.60	80	47	•
A520047080047	4.70	4.70	80	47	•
A520048086052	4.80	4.80	86	52	•
A520049086052	4.90	4.90	86	52	•
A520050086052	5.00	5.00	86	52	•
A520051086052	5.10	5.10	86	52	•
A520052086052	5.20	5.20	86	52	•
A520053086052	5.30	5.30	86	52	•
A520054093057	5.40	5.40	93	57	•
A520055093057	5.50	5.50	93	57	•
A520056093057	5.60	5.60	93	57	•
A520057093057	5.70	5.70	93	57	•
A520058093057	5.80	5.80	93	57	•
A520059093057	5.90	5.90	93	57	•
A520060093057	6.00	6.00	93	57	•
A520061101063	6.10	6.10	101	63	•
A520062101063	6.20	6.20	101	63	•
A520063101063	6.30	6.30	101	63	•
A520064101063	6.40	6.40	101	63	•
A520065101063	6.50	6.50	101	63	•
A520066101063	6.60	6.60	101	63	•
A520067101063	6.70	6.70	101	63	•
A520068109069	6.80	6.80	109	69	•
A520069109069	6.90	6.90	109	69	•
A520070109069	7.00	7.00	109	69	•
A520071109069	7.10	7.10	109	69	•
A520072109069	7.20	7.20	109	69	•

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A520073109069	7.30	7.30	109	69	●
A520074109069	7.40	7.40	109	69	●
A520075109069	7.50	7.50	109	69	●
A520076117075	7.60	7.60	117	75	●
A520077117075	7.70	7.70	117	75	●
A520078117075	7.80	7.80	117	75	●
A520079117075	7.90	7.90	117	75	●
A520080117075	8.00	8.00	117	75	●
A520081117075	8.10	8.10	117	75	●
A520082117075	8.20	8.20	117	75	●
A520083117075	8.30	8.30	117	75	●
A520084117075	8.40	8.40	117	75	●
A520085117075	8.50	8.50	117	75	●
A520086125081	8.60	8.60	125	81	●
A520087125081	8.70	8.70	125	81	●
A520088125081	8.80	8.80	125	81	●
A520089125081	8.90	8.90	125	81	●
A520090125081	9.00	9.00	125	81	●
A520091125081	9.10	9.10	125	81	●
A520092125081	9.20	9.20	125	81	●
A520093125081	9.30	9.30	125	81	●
A520094125081	9.40	9.40	125	81	●
A520095125081	9.50	9.50	125	81	●
A520096133087	9.60	9.60	133	87	●
A520097133087	9.70	9.70	133	87	●
A520098133087	9.80	9.80	133	87	●
A520099133087	9.90	9.90	133	87	●
A520100133087	10.00	10.00	133	87	●
A520102133087	10.20	10.20	133	87	●
A520105133087	10.50	10.50	133	87	●
A520108142094	10.80	10.80	142	94	●
A520110142094	11.00	11.00	142	94	●
A520115142094	11.50	11.50	142	94	●
A520118142094	11.80	11.80	142	94	●
A520120151101	12.00	12.00	151	101	●
A520125151101	12.50	12.50	151	101	●
A520130151101	13.00	13.00	151	101	●
A520135160108	13.50	13.50	160	108	●
A520140160108	14.00	14.00	160	108	●
A520145160108	14.50	14.50	160	108	○
A520150169114	15.00	15.00	169	114	○
A520155178120	15.50	15.50	178	120	○
A520160178120	16.00	16.00	178	120	○

PUNTA ELICOIDALE, W-TIN, SERIE A520

TWIST DRILL, W-TIN, TYPE A520

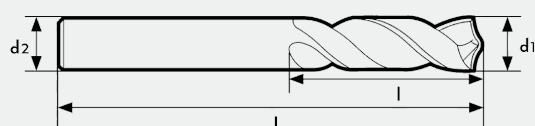


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, alluminio, leghe, rame, ottone, bronzo, materie plastiche

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, aluminium, alloys, copper, brass, bronze, plastic materials



Design and technical spec

Helix angle	30°
Point angle	118°
Tolerance d1	h6 (d2:h6)
Other specifications	DIN 338
Finish	Coating
Coating	W-TIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A520020049024W	2.00	2.00	49	24	•
A520021049024W	2.10	2.10	49	24	•
A520022053027W	2.20	2.20	53	27	•
A520023053027W	2.30	2.30	53	27	•
A520024057030W	2.40	2.40	57	30	•
A520025057030W	2.50	2.50	57	30	•
A520026057030W	2.60	2.60	57	30	•
A520027061033W	2.70	2.70	61	33	•
A520028061033W	2.80	2.80	61	33	•
A520029061033W	2.90	2.90	61	33	•
A520030061033W	3.00	3.00	61	33	•
A520031065036W	3.10	3.10	65	36	•
A520032065036W	3.20	3.20	65	36	•
A520033065036W	3.30	3.30	65	36	•
A520034070039W	3.40	3.40	70	39	•
A520035070039W	3.50	3.50	70	39	•
A520036070039W	3.60	3.60	70	39	•
A520037070039W	3.70	3.70	70	39	•
A520038075043W	3.80	3.80	75	43	•
A520039075043W	3.90	3.90	75	43	•
A520040075043W	4.00	4.00	75	43	•
A520041075043W	4.10	4.10	75	43	•
A520042075043W	4.20	4.20	75	43	•
A520043080047W	4.30	4.30	80	47	•
A520044080047W	4.40	4.40	80	47	•
A520045080047W	4.50	4.50	80	47	•
A520046080047W	4.60	4.60	80	47	•
A520047080047W	4.70	4.70	80	47	•
A520048086052W	4.80	4.80	86	52	•
A520049086052W	4.90	4.90	86	52	•
A520050086052W	5.00	5.00	86	52	•
A520051086052W	5.10	5.10	86	52	•
A520052086052W	5.20	5.20	86	52	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A520053086052W	5.30	5.30	86	52	•
A520054093057W	5.40	5.40	93	57	•
A520055093057W	5.50	5.50	93	57	•
A520056093057W	5.60	5.60	93	57	•
A520057093057W	5.70	5.70	93	57	•
A520058093057W	5.80	5.80	93	57	•
A520059093057W	5.90	5.90	93	57	•
A520060093057W	6.00	6.00	93	57	•
A520061101063W	6.10	6.10	101	63	•
A520062101063W	6.20	6.20	101	63	•
A520063101063W	6.30	6.30	101	63	•
A520064101063W	6.40	6.40	101	63	•
A520065101063W	6.50	6.50	101	63	•
A520066101063W	6.60	6.60	101	63	•
A520067101063W	6.70	6.70	101	63	•
A520068109069W	6.80	6.80	109	69	•
A520069109069W	6.90	6.90	109	69	•
A520070109069W	7.00	7.00	109	69	•
A520071109069W	7.10	7.10	109	69	•
A520072109069W	7.20	7.20	109	69	•
A520073109069W	7.30	7.30	109	69	•
A520074109069W	7.40	7.40	109	69	•
A520075109069W	7.50	7.50	109	69	•
A520076117075W	7.60	7.60	117	75	•
A520077117075W	7.70	7.70	117	75	•
A520078117075W	7.80	7.80	117	75	•
A520079117075W	7.90	7.90	117	75	•
A520080117075W	8.00	8.00	117	75	•
A520081117075W	8.10	8.10	117	75	•
A520082117075W	8.20	8.20	117	75	•
A520083117075W	8.30	8.30	117	75	•
A520084117075W	8.40	8.40	117	75	•
A520085117075W	8.50	8.50	117	75	•

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A520086125081W	8.60	8.60	125	81	•
A520087125081W	8.70	8.70	125	81	•
A520088125081W	8.80	8.80	125	81	•
A520089125081W	8.90	8.90	125	81	•
A520090125081W	9.00	9.00	125	81	•
A520091125081W	9.10	9.10	125	81	•
A520092125081W	9.20	9.20	125	81	•
A520093125081W	9.30	9.30	125	81	•
A520094125081W	9.40	9.40	125	81	•
A520095125081W	9.50	9.50	125	81	•
A520096133087W	9.60	9.60	133	87	•
A520097133087W	9.70	9.70	133	87	•
A520098133087W	9.80	9.80	133	87	•
A520099133087W	9.90	9.90	133	87	•
A520100133087W	10.00	10.00	133	87	•
A520102133087W	10.20	10.20	133	87	•
A520105133087W	10.50	10.50	133	87	•
A520108142094W	10.80	10.80	142	94	•
A520110142094W	11.00	11.00	142	94	•
A520115142094W	11.50	11.50	142	94	•
A520118142094W	11.80	11.80	142	94	•
A520120151101W	12.00	12.00	151	101	•
A520125151101W	12.50	12.50	151	101	•
A520130151101W	13.00	13.00	151	101	•
A520135160108W	13.50	13.50	160	108	•
A520140160108W	14.00	14.00	160	108	•
A520145160108W	14.50	14.50	160	108	○
A520150169114W	15.00	15.00	169	114	○
A520155178120W	15.50	15.50	178	120	○
A520160178120W	16.00	16.00	178	120	○

PUNTA ELICOIDALE, NEUTRA, SERIE A530

TWIST DRILL, UNCOATING, TYPE A530

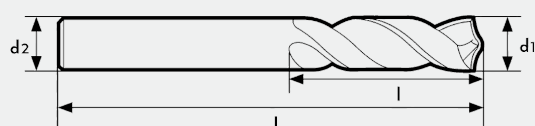


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, alluminio, leghe, rame, ottone, bronzo, materie plastiche

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, aluminium, alloys, copper, brass, bronze, plastic materials



Design and technical spec

Helix angle	25°-30°
Point angle	118°-130°
Tolerance d1	h6 (d2:h6)
Other specifications	Company standard
Finish	Bright finished
Coating	uncoated

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A530010075025	1.00	1.00	75	25	•
A530011075025	1.10	1.10	75	25	•
A530012075025	1.20	1.20	75	25	•
A530013075025	1.30	1.30	75	25	•
A530014075030	1.40	1.40	75	30	•
A530015075030	1.50	1.50	75	30	•
A530016075030	1.60	1.60	75	30	•
A530017075030	1.70	1.70	75	30	•
A530018075030	1.80	1.80	75	30	•
A530019075030	1.90	1.90	75	30	•
A530020075030	2.00	2.00	75	30	•
A530021075030	2.10	2.10	75	30	•
A530022075030	2.20	2.20	75	30	•
A530023075030	2.30	2.30	75	30	•
A530024100035	2.40	2.40	100	35	•
A530025100035	2.50	2.50	100	35	•
A530026100035	2.60	2.60	100	35	•
A530027100035	2.70	2.70	100	35	•
A530028100035	2.80	2.80	100	35	•
A530029100035	2.90	2.90	100	35	•
A530030100050	3.00	3.00	100	50	•
A530031100050	3.10	3.10	100	50	•
A530032100050	3.20	3.20	100	50	•
A530033100050	3.30	3.30	100	50	•
A530034100050	3.40	3.40	100	50	•
A530035100050	3.50	3.50	100	50	•
A530036100050	3.60	3.60	100	50	•
A530037100050	3.70	3.70	100	50	•
A530038100050	3.80	3.80	100	50	•
A530039100050	3.90	3.90	100	50	•
A530040100050	4.00	4.00	100	50	•
A530041100050	4.10	4.10	100	50	•
A530042100050	4.20	4.20	100	50	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A530043100050	4.30	4.30	100	50	•
A530044100050	4.40	4.40	100	50	•
A530045100050	4.50	4.50	100	50	•
A530046100050	4.60	4.60	100	50	•
A530047100050	4.70	4.70	100	50	•
A530048100050	4.80	4.80	100	50	•
A530049100050	4.90	4.90	100	50	•
A530050150075	5.00	5.00	150	75	•
A530051150075	5.10	5.10	150	75	•
A530052150075	5.20	5.20	150	75	•
A530053150075	5.30	5.30	150	75	•
A530054150075	5.40	5.40	150	75	•
A530055150075	5.50	5.50	150	75	•
A530056150075	5.60	5.60	150	75	•
A530057150075	5.70	5.70	150	75	•
A530058150075	5.80	5.80	150	75	•
A530059150075	5.90	5.90	150	75	•
A530060150075	6.00	6.00	150	75	•
A530061150075	6.10	6.10	150	75	•
A530062150075	6.20	6.20	150	75	•
A530063150075	6.30	6.30	150	75	•
A530064150075	6.40	6.40	150	75	•
A530065150075	6.50	6.50	150	75	•
A530066150075	6.60	6.60	150	75	•
A530067150075	6.70	6.70	150	75	•
A530068150075	6.80	6.80	150	75	•
A530069150075	6.90	6.90	150	75	•
A530070150075	7.00	7.00	150	75	•
A530075150075	7.50	7.50	150	75	•
A530080150075	8.00	8.00	150	75	•
A530085150075	8.50	8.50	150	75	•
A530090150075	9.00	9.00	150	75	•
A530095150075	9.50	9.50	150	75	•

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A530100150075	10.00	10.00	150	75	●
A530120200090	12.00	12.00	200	90	○

PUNTA ELICOIDALE CON GAMBO RINFORZATO 1/100, NEUTRA, SERIE A521

TWIST DRILL WITH REINFORCED SHANK 1/100, UNCOATING, TYPE A521

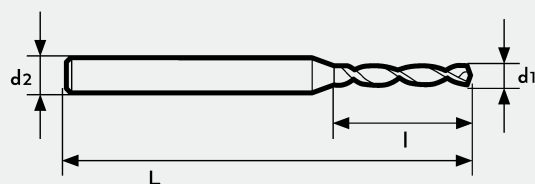


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	35°
Point angle	118°
Tolerance d1	h6 (d2:h6)
Other specifications	DIN 1899 A
Finish	Bright finished
Coating	uncoated

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A521015030010	0.15	1	30	1	•
A521016030010	0.16	1	30	1	•
A521017030010	0.17	1	30	1	•
A521018030010	0.18	1	30	1	•
A521019030010	0.19	1	30	1	•
A521020030020	0.20	1	30	2	•
A521021030020	0.21	1	30	2	•
A521022030020	0.22	1	30	2	•
A521023030020	0.23	1	30	2	•
A521024030020	0.24	1	30	2	•
A521025030020	0.25	1	30	2	•
A521026030025	0.26	1	30	2.5	•
A521027030025	0.27	1	30	2.5	•
A521028030025	0.28	1	30	2.5	•
A521029030025	0.29	1	30	2.5	•
A521030030025	0.30	1	30	2.5	•
A521031030030	0.31	1	30	3	•
A521032030030	0.32	1	30	3	•
A521033030030	0.33	1	30	3	•
A521034030030	0.34	1	30	3	•
A521035030040	0.35	1	30	4	•
A521036030040	0.36	1	30	4	•
A521037030040	0.37	1	30	4	•
A521038030040	0.38	1	30	4	•
A521039030040	0.39	1	30	4	•
A521040030040	0.40	1	30	4	•
A521041030040	0.41	1	30	4	•
A521042030040	0.42	1	30	4	•
A521043030040	0.43	1	30	4	•
A521044030040	0.44	1	30	4	•
A521045030060	0.45	1	30	6	•
A521046030060	0.46	1	30	6	•
A521047030060	0.47	1	30	6	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A521048030060	0.48	1	30	6	•
A521049030060	0.49	1	30	6	•
A521050030060	0.50	1	30	6	•
A521051030060	0.51	1	30	6	•
A521052030060	0.52	1	30	6	•
A521053030060	0.53	1	30	6	•
A521054030060	0.54	1	30	6	•
A521055030060	0.55	1	30	6	•
A521056030060	0.56	1	30	6	•
A521057030060	0.57	1	30	6	•
A521058030060	0.58	1	30	6	•
A521059030060	0.59	1	30	6	•
A521060030060	0.60	1	30	6	•
A521061030060	0.61	1	30	6	•
A521062030060	0.62	1	30	6	•
A521063030060	0.63	1	30	6	•
A521064030060	0.64	1	30	6	•
A521065030070	0.65	1	30	7	•
A521066030070	0.66	1	30	7	•
A521067030070	0.67	1	30	7	•
A521068030070	0.68	1	30	7	•
A521069030070	0.69	1	30	7	•
A521070030070	0.70	1	30	7	•
A521071030070	0.71	1	30	7	•
A521072030070	0.72	1	30	7	•
A521073030070	0.73	1	30	7	•
A521074030070	0.74	1	30	7	•
A521075030080	0.75	1	30	8	•
A521076030080	0.76	1	30	8	•
A521077030080	0.77	1	30	8	•
A521078030080	0.78	1	30	8	•
A521079030080	0.79	1	30	8	•
A521080030080	0.80	1.5	30	8	•

• Disponibile a magazzino / in stock / auf Lager / en stock

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A521081030080	0.81	1.5	30	8	●
A521082030080	0.82	1.5	30	8	●
A521083030080	0.83	1.5	30	8	●
A521084030080	0.84	1.5	30	8	●
A521085030080	0.85	1.5	30	8	●
A521086030080	0.86	1.5	30	8	●
A521087030080	0.87	1.5	30	8	●
A521088030080	0.88	1.5	30	8	●
A521089030080	0.89	1.5	30	8	●
A521090030080	0.90	1.5	30	8	●
A521091030080	0.91	1.5	30	8	●
A521092030080	0.92	1.5	30	8	●
A521093030080	0.93	1.5	30	8	●
A521094030080	0.94	1.5	30	8	●
A521095030100	0.95	1.5	30	10	●
A521096030100	0.96	1.5	30	10	●
A521097030100	0.97	1.5	30	10	●
A521098030100	0.98	1.5	30	10	●
A521099030100	0.99	1.5	30	10	●
A521100030100	1.00	1.5	30	10	●
A521101030100	1.01	1.5	30	10	●
A521102030100	1.02	1.5	30	10	●
A521103030100	1.03	1.5	30	10	●
A521104030100	1.04	1.5	30	10	●
A521105030100	1.05	1.5	30	10	●
A521106030100	1.06	1.5	30	10	●
A521107030100	1.07	1.5	30	10	●
A521108030100	1.08	1.5	30	10	●
A521109030100	1.09	1.5	30	10	●
A521110030100	1.10	1.5	30	10	●
A521111030100	1.11	1.5	30	10	●
A521112030100	1.12	1.5	30	10	●
A521113030100	1.13	1.5	30	10	●
A521114030100	1.14	1.5	30	10	●
A521115030120	1.15	1.5	30	12	●
A521116030120	1.16	1.5	30	12	●
A521117030120	1.17	1.5	30	12	●
A521118030120	1.18	1.5	30	12	●
A521119030120	1.19	1.5	30	12	●
A521120030120	1.20	1.5	30	12	●
A521121030120	1.21	1.5	30	12	●
A521122030120	1.22	1.5	30	12	●
A521123030120	1.23	1.5	30	12	●
A521124030120	1.24	1.5	30	12	●
A521125030120	1.25	1.5	30	12	●
A521126030120	1.26	1.5	30	12	●
A521127030120	1.27	1.5	30	12	●
A521128030120	1.28	1.5	30	12	●
A521129030120	1.29	1.5	30	12	●
A521130030120	1.30	1.5	30	12	●
A521131030120	1.31	1.5	30	12	●
A521132030120	1.32	1.5	30	12	●
A521133030120	1.33	1.5	30	12	●
A521134030120	1.34	1.5	30	12	●
A521135030120	1.35	1.5	30	12	●
A521136030120	1.36	1.5	30	12	●
A521137030120	1.37	1.5	30	12	●
A521138030120	1.38	1.5	30	12	●
A521139030120	1.39	1.5	30	12	●
A521140030120	1.40	1.5	30	12	●
A521141030120	1.41	1.5	30	12	●
A521142030120	1.42	1.5	30	12	●
A521143030120	1.43	1.5	30	12	●
A521144030120	1.44	1.5	30	12	●
A521145030120	1.45	1.5	30	12	●
A521146030120	1.46	1.5	30	12	●

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A521147030120	1.47	1.5	30	12	●
A521148030120	1.48	1.5	30	12	●
A521149030120	1.49	1.5	30	12	●
A521150030120	1.50	2	30	12	●
A521151030120	1.51	2	30	12	●
A521152030120	1.52	2	30	12	●
A521153030120	1.53	2	30	12	●
A521154030120	1.54	2	30	12	●
A521155030120	1.55	2	30	12	●
A521156030120	1.56	2	30	12	●
A521157030120	1.57	2	30	12	●
A521158030120	1.58	2	30	12	●
A521159030120	1.59	2	30	12	●
A521160030120	1.60	2	30	12	●
A521161030120	1.61	2	30	12	●
A521162030120	1.62	2	30	12	●
A521163030120	1.63	2	30	12	●
A521164030120	1.64	2	30	12	●
A521165030120	1.65	2	30	12	●
A521166030120	1.66	2	30	12	●
A521167030120	1.67	2	30	12	●
A521168030120	1.68	2	30	12	●
A521169030120	1.69	2	30	12	●
A521170030120	1.70	2	30	12	●
A521171030120	1.71	2	30	12	●
A521172030120	1.72	2	30	12	●
A521173030120	1.73	2	30	12	●
A521174030120	1.74	2	30	12	●
A521175030120	1.75	2	30	12	●
A521176030120	1.76	2	30	12	●
A521177030120	1.77	2	30	12	●
A521178030120	1.78	2	30	12	●
A521179030120	1.79	2	30	12	●
A521180030120	1.80	2	30	12	●
A521181030120	1.81	2	30	12	●
A521182030120	1.82	2	30	12	●
A521183030120	1.83	2	30	12	●
A521184030120	1.84	2	30	12	●
A521185030120	1.85	2	30	12	●
A521186030120	1.86	2	30	12	●
A521187030120	1.87	2	30	12	●
A521188030120	1.88	2	30	12	●
A521189030120	1.89	2	30	12	●
A521190030120	1.90	2	30	12	●
A521191030120	1.91	2	30	12	●
A521192030120	1.92	2	30	12	●
A521193030120	1.93	2	30	12	●
A521194030120	1.94	2	30	12	●
A521195030120	1.95	2	30	12	●
A521196030120	1.96	2	30	12	●
A521197030120	1.97	2	30	12	●
A521198030120	1.98	2	30	12	●
A521199030120	1.99	2	30	12	●
A521200030120	2.00	2.5	30	12	●

PUNTA ELICOIDALE A GRADINO, NEUTRA, SERIE A540

STEP DRILL, UNCOATING, TYPE A540

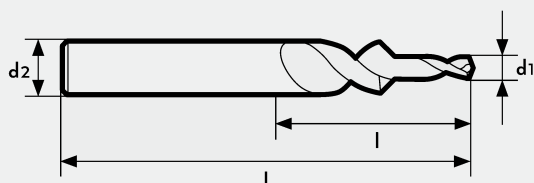


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	h8 (d2:h6)
Other specifications	Company standard
Finish	Bright finished
Coating	uncoated

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A540025066020-M3	2.50	6.00	66	20	•
A540033066024-M4	3.30	6.00	66	24	•
A540042066028-M5	4.20	6.00	66	28	•
A540050079034-M6	5.00	8.00	79	34	•
A540068089047-M8	6.80	10.00	89	47	•
A540085102055-M10	8.50	12.00	102	55	•
A540102107060-M12	10.20	14.00	107	60	•
A540120115065-M14	12.00	16.00	115	65	•
A540140123073-M16	14.00	18.00	123	73	○

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE A GRADINO, S-TiAIN, SERIE A540

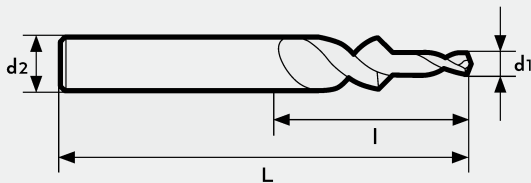
STEP DRILL, S-TiAIN, TYPE A540

**CARATTERISTICHE**

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, aluminium, alloys, copper, brass, bronze

**Design and technical spec**

Helix angle	30°
Point angle	140°
Tolerance d1	h8 (d2:h6)
Other specifications	Company standard
Finish	Coating
Coating	S-TiAIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A540025066020R-M3	2.50	6.00	66	20	•
A540033066024R-M4	3.30	6.00	66	24	•
A540042066028R-M5	4.20	6.00	66	28	•
A540050079034R-M6	5.00	8.00	79	34	•
A540068089047R-M8	6.80	10.00	89	47	•
A540085102055R-M10	8.50	12.00	102	55	•
A540102107060R-M12	10.20	14.00	107	60	•
A540120115065R-M14	12.00	16.00	115	65	•
A540140123073R-M16	14.00	18.00	123	73	○

• Disponibile a magazzino / in stock / auf Lager / en stock

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA A CENTRARE 90°, NEUTRA, SERIE A550

CENTER DRILL 90°, UNCOATING, TYPE A550

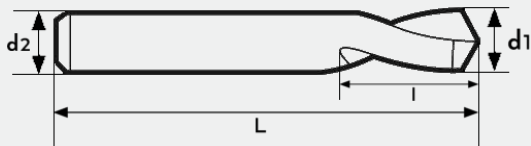


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	20°
Point angle	90°
Tolerance d1	h6 (d2:h6)
Other specifications	Company standard
Finish	Bright finished
Coating	uncoated

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A550030045012	3.00	3.00	45	12	•
A550040050015	4.00	4.00	50	15	•
A550050050018	5.00	5.00	50	18	•
A550060050021	6.00	6.00	50	21	•
A550080060025	8.00	8.00	60	25	•
A550100070027	10.00	10.00	70	27	○
A550120070027	12.00	12.00	70	27	○
A550140075030	14.00	14.00	75	30	○
A550160075030	16.00	16.00	75	30	○
A550180100033	18.00	18.00	100	33	○
A550200100033	20.00	20.00	100	33	○

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA A CENTRARE 90°, S-TiAIN, SERIE A550

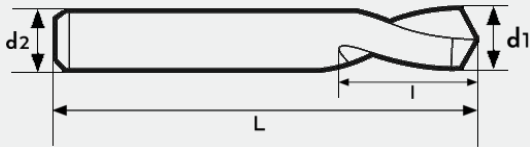
CENTER DRILL 90°, S-TiAIN, TYPE A550

**CARATTERISTICHE**

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	20°
Point angle	90°
Tolerance d1	h6 (d2:h6)
Other specifications	Company standard
Finish	Coating
Coating	S-TiAIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A550030045012R	3.00	3.00	45	12	●
A550040050015R	4.00	4.00	50	15	●
A550050050018R	5.00	5.00	50	18	●
A550060050021R	6.00	6.00	50	21	●
A550080060025R	8.00	8.00	60	25	●
A550100070027R	10.00	10.00	70	27	○
A550120070027R	12.00	12.00	70	27	○
A550140075030R	14.00	14.00	75	30	○
A550160075030R	16.00	16.00	75	30	○
A550180100033R	18.00	18.00	100	33	○
A550200100033R	20.00	20.00	100	33	○

• Disponibile a magazzino / in stock / auf Lager / en stock

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA A CENTRARE 100°, NEUTRA, SERIE A551

CENTER DRILL 100°, UNCOATING, TYPE A551

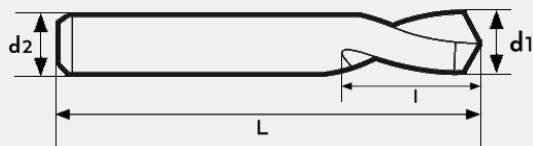


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	20°
Point angle	100°
Tolerance d1	h6 (d2:h6)
Other specifications	Company standard
Finish	Bright finished
Coating	uncoated

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A551060050021	6.00	6.00	50	21	●
A551080060025	8.00	8.00	60	25	●
A551100070027	10.00	10.00	70	27	○
A551120070027	12.00	12.00	70	27	○
A551160075030	16.00	16.00	75	30	○

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA A CENTRARE 100°, S-TiAIN, SERIE A551

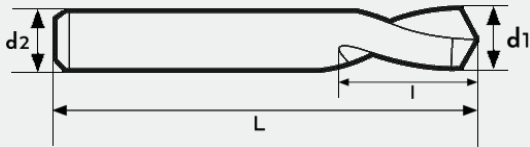
CENTER DRILL 100°, S-TiAIN, TYPE A551

**CARATTERISTICHE**

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	20°
Point angle	100°
Tolerance d1	h6 (d2:h6)
Other specifications	Company standard
Finish	Coating
Coating	S-TiAIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A551060050021R	6.00	6.00	50	21	●
A551080060025R	8.00	8.00	60	25	●
A551100070027R	10.00	10.00	70	27	○
A551120070027R	12.00	12.00	70	27	○
A551160075030R	16.00	16.00	75	30	○

• Disponibile a magazzino / in stock / auf Lager / en stock

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA A CENTRARE 120°, NEUTRA, SERIE A552

CENTER DRILL 120°, UNCOATING, TYPE A552

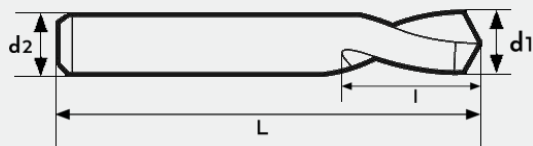


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	20°
Point angle	120°
Tolerance d1	h6 (d2:h6)
Other specifications	Company standard
Finish	Bright finished
Coating	uncoated

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A552030045012	3.00	3.00	45	12	●
A552040050015	4.00	4.00	50	15	●
A552050050018	5.00	5.00	50	18	●
A552060050021	6.00	6.00	50	21	●
A552080060025	8.00	8.00	60	25	●
A552100070027	10.00	10.00	70	27	○
A552120070027	12.00	12.00	70	27	○
A552140075030	14.00	14.00	75	30	○
A552160075030	16.00	16.00	75	30	○
A552180100033	18.00	18.00	100	33	○
A552200100033	20.00	20.00	100	33	○

• Disponibile a magazzino / in stock / auf Lager / en stock

- Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA A CENTRARE 120°, S-TiAIN, SERIE A552

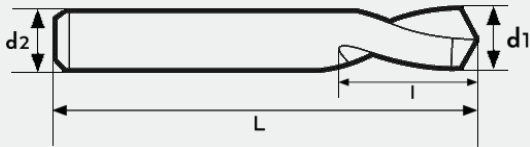
CENTER DRILL 120°, S-TiAIN, TYPE A552

**CARATTERISTICHE**

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	20°
Point angle	120°
Tolerance d1	h6 (d2:h6)
Other specifications	Company standard
Finish	Coating
Coating	S-TiAIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A552030045012R	3.00	3.00	45	12	●
A552040050015R	4.00	4.00	50	15	●
A552050050018R	5.00	5.00	50	18	●
A552060050021R	6.00	6.00	50	21	●
A552080060025R	8.00	8.00	60	25	●
A552100070027R	10.00	10.00	70	27	○
A552120070027R	12.00	12.00	70	27	○
A552140075030R	14.00	14.00	75	30	○
A552160075030R	16.00	16.00	75	30	○
A552180100033R	18.00	18.00	100	33	○
A552200100033R	20.00	20.00	100	33	○

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE, NEUTRA, SERIE A522

TWIST DRILL, UNCOATING, TYPE A522

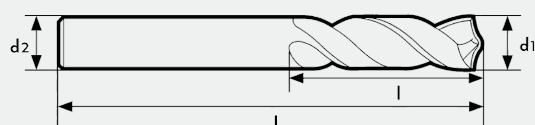


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	25°-35°
Point angle	118°
Tolerance d1	h6 (d2:h6)
Other specifications	Company standard
Finish	Bright finished
Coating	uncoated

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A522070030006	0.70	0.70	30	6	•
A522075030008	0.75	0.75	30	8	•
A522080030008	0.80	0.80	30	8	•
A522085030009	0.85	0.85	30	9	•
A522090030009	0.90	0.90	30	9	•
A522095030010	0.95	0.95	30	10	•
A522100030010	1.00	1.00	30	10	•
A522105030010	1.05	1.05	30	10	•
A522110030010	1.10	1.10	30	10	•
A522115030012	1.15	1.15	30	12	•
A522120030012	1.20	1.20	30	12	•
A522125030012	1.25	1.25	30	12	•
A522130030012	1.30	1.30	30	12	•
A522135030012	1.35	1.35	30	12	•
A522140030012	1.40	1.40	30	12	•
A522145030012	1.45	1.45	30	12	•
A522150030012	1.50	1.50	30	12	•
A522155040016	1.55	1.55	40	16	•
A522160040016	1.60	1.60	40	16	•
A522165040016	1.65	1.65	40	16	•
A522170040016	1.70	1.70	40	16	•
A522175040016	1.75	1.75	40	16	•
A522180040016	1.80	1.80	40	16	•
A522185040016	1.85	1.85	40	16	•
A522190040016	1.90	1.90	40	16	•
A522195040016	1.95	1.95	40	16	•
A522200040016	2.00	2.00	40	16	•
A522205040018	2.05	2.05	40	18	•
A522210040018	2.10	2.10	40	18	•
A522215040018	2.15	2.15	40	18	•
A522220040018	2.20	2.20	40	18	•
A522225040018	2.25	2.25	40	18	•
A522230040018	2.30	2.30	40	18	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A522235040018	2.35	2.35	40	18	•
A522240040018	2.40	2.40	40	18	•
A522245040018	2.45	2.45	40	18	•
A522250040018	2.50	2.50	40	18	•
A522255045018	2.55	2.55	45	18	•
A522260045018	2.60	2.60	45	18	•
A522265045018	2.65	2.65	45	18	•
A522270045018	2.70	2.70	45	18	•
A522275045018	2.75	2.75	45	18	•
A522280045018	2.80	2.80	45	18	•
A522285045018	2.85	2.85	45	18	•
A522290045018	2.90	2.90	45	18	•
A522295045018	2.95	2.95	45	18	•
A522300045018	3.00	3.00	45	18	•
A522310050020	3.10	3.10	50	20	•
A522320050020	3.20	3.20	50	20	•
A522330050020	3.30	3.30	50	20	•
A522340050020	3.40	3.40	50	20	•
A522350050020	3.50	3.50	50	20	•
A522360050020	3.60	3.60	50	20	•
A522370050020	3.70	3.70	50	20	•
A522380050020	3.80	3.80	50	20	•
A522390050020	3.90	3.90	50	20	•
A522400050020	4.00	4.00	50	20	•
A522410050025	4.10	4.10	50	25	•
A522420050025	4.20	4.20	50	25	•
A522430050025	4.30	4.30	50	25	•
A522440050025	4.40	4.40	50	25	•
A522450050025	4.50	4.50	50	25	•
A522460050025	4.60	4.60	50	25	•
A522470050025	4.70	4.70	50	25	•
A522480050025	4.80	4.80	50	25	•
A522490050025	4.90	4.90	50	25	•

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A522500050025	5.00	5.00	50	25	•
A522510050025	5.10	5.10	50	25	•
A522520050025	5.20	5.20	50	25	•
A522530050025	5.30	5.30	50	25	•
A522540050025	5.40	5.40	50	25	•
A522550050025	5.50	5.50	50	25	•
A522560050025	5.60	5.60	50	25	•
A522570050025	5.70	5.70	50	25	•
A522580050025	5.80	5.80	50	25	•
A522590050025	5.90	5.90	50	25	•
A522600050025	6.00	6.00	50	25	•

PUNTA ELICOIDALE 3XD AD ALTE PRESTAZIONI, S-TiAIN, SERIE A611

SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 3XD, S-TiAIN, TYPE A611

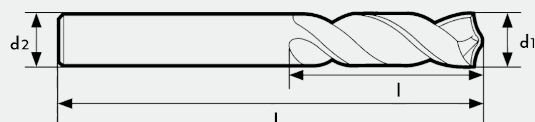


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6539
Finish	Lapped
Coating	S-TiAIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A611028046016R	2.80	2.80	46	16	•
A611029046016R	2.90	2.90	46	16	•
A611030046016R	3.00	3.00	46	16	•
A611031049018R	3.10	3.10	49	18	•
A611032049018R	3.20	3.20	49	18	•
A611033049018R	3.30	3.30	49	18	•
A611034052020R	3.40	3.40	52	20	•
A611035052020R	3.50	3.50	52	20	•
A611036052020R	3.60	3.60	52	20	•
A611037052020R	3.70	3.70	52	20	•
A611038055022R	3.80	3.80	55	22	•
A611039055022R	3.90	3.90	55	22	•
A611040055022R	4.00	4.00	55	22	•
A611041055022R	4.10	4.10	55	22	•
A611042055022R	4.20	4.20	55	22	•
A611043058024R	4.30	4.30	58	24	•
A611044058024R	4.40	4.40	58	24	•
A611045058024R	4.50	4.50	58	24	•
A611046058024R	4.60	4.60	58	24	•
A611047058024R	4.70	4.70	58	24	•
A611048062026R	4.80	4.80	62	26	•
A611049062026R	4.90	4.90	62	26	•
A611050062026R	5.00	5.00	62	26	•
A611051062026R	5.10	5.10	62	26	•
A611052062026R	5.20	5.20	62	26	•
A611053062026R	5.30	5.30	62	26	•
A611054066028R	5.40	5.40	66	28	•
A611055066028R	5.50	5.50	66	28	•
A611056066028R	5.60	5.60	66	28	•
A611057066028R	5.70	5.70	66	28	•
A611058066028R	5.80	5.80	66	28	•
A611059066028R	5.90	5.90	66	28	•
A611060066028R	6.00	6.00	66	28	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A611061070031R	6.10	6.10	70	31	•
A611062070031R	6.20	6.20	70	31	•
A611063070031R	6.30	6.30	70	31	•
A6110635070031R	6.35	6.35	70	31	•
A611064070031R	6.40	6.40	70	31	•
A611065070031R	6.50	6.50	70	31	•
A611066070031R	6.60	6.60	70	31	•
A611067070031R	6.70	6.70	70	31	•
A611068074034R	6.80	6.80	74	34	•
A611069074034R	6.90	6.90	74	34	•
A611070074034R	7.00	7.00	74	34	•
A611071074034R	7.10	7.10	74	34	•
A611072074034R	7.20	7.20	74	34	•
A611073074034R	7.30	7.30	74	34	•
A611074074034R	7.40	7.40	74	34	•
A611075074034R	7.50	7.50	74	34	•
A611076079037R	7.60	7.60	79	37	•
A611077079037R	7.70	7.70	79	37	•
A611078079037R	7.80	7.80	79	37	•
A611079079037R	7.90	7.90	79	37	•
A611080079037R	8.00	8.00	79	37	•
A611081079037R	8.10	8.10	79	37	•
A611082079037R	8.20	8.20	79	37	•
A611083079037R	8.30	8.30	79	37	•
A611084079037R	8.40	8.40	79	37	•
A611085079037R	8.50	8.50	79	37	•
A611086084040R	8.60	8.60	84	40	•
A611087084040R	8.70	8.70	84	40	•
A611088084040R	8.80	8.80	84	40	•
A611089084040R	8.90	8.90	84	40	•
A611090084040R	9.00	9.00	84	40	•
A611091084040R	9.10	9.10	84	40	•
A611092084040R	9.20	9.20	84	40	•

• Disponibile a magazzino / in stock / auf Lager / en stock

◦ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A611093084040R	9.30	9.30	84	40	•
A611094084040R	9.40	9.40	84	40	•
A611095084040R	9.50	9.50	84	40	•
A611096089043R	9.60	9.60	89	43	•
A611097089043R	9.70	9.70	89	43	•
A611098089043R	9.80	9.80	89	43	•
A611099089043R	9.90	9.90	89	43	•
A611100089043R	10.00	10.00	89	43	•
A611101089043R	10.10	10.10	89	43	•
A611102089043R	10.20	10.20	89	43	•
A611105089043R	10.50	10.50	89	43	•
A611108095047R	10.80	10.80	95	47	•
A611110095047R	11.00	11.00	95	47	•
A611115095047R	11.50	11.50	95	47	•
A611120102051R	12.00	12.00	102	51	○
A611125102051R	12.50	12.50	102	51	○
A611130102051R	13.00	13.00	102	51	○
A611135107054R	13.50	13.50	107	54	○
A611140107054R	14.00	14.00	107	54	○
A611145111056R	14.50	14.50	111	56	○
A611150111056R	15.00	15.00	111	56	○
A611155115058R	15.50	15.50	115	58	○
A611160115058R	16.00	16.00	115	58	○
A611180123062R	18.00	18.00	123	62	○
A611200131066R	20.00	20.00	131	66	○

PUNTA ELICOIDALE 3XD AD ALTE PRESTAZIONI CON RIVESTIMENTO MULTIFUNZIONALE, RED-Plus, SERIE A611

SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 3XD WITH MULTIFUNCTIONAL COATING, RED-Plus, TYPE A611

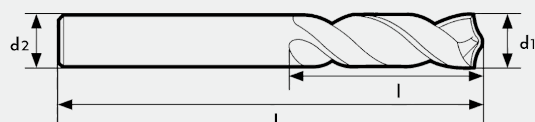


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6539
Finish	Lapped
Coating	RED-Plus

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A611028046016X	2.80	2.80	46	16	•
A611029046016X	2.90	2.90	46	16	•
A611030046016X	3.00	3.00	46	16	•
A611031049018X	3.10	3.10	49	18	•
A611032049018X	3.20	3.20	49	18	•
A611033049018X	3.30	3.30	49	18	•
A611034052020X	3.40	3.40	52	20	•
A611035052020X	3.50	3.50	52	20	•
A611036052020X	3.60	3.60	52	20	•
A611037052020X	3.70	3.70	52	20	•
A611038055022X	3.80	3.80	55	22	•
A611039055022X	3.90	3.90	55	22	•
A611040055022X	4.00	4.00	55	22	•
A611041055022X	4.10	4.10	55	22	•
A611042055022X	4.20	4.20	55	22	•
A611043058024X	4.30	4.30	58	24	•
A611044058024X	4.40	4.40	58	24	•
A611045058024X	4.50	4.50	58	24	•
A611046058024X	4.60	4.60	58	24	•
A611047058024X	4.70	4.70	58	24	•
A611048062026X	4.80	4.80	62	26	•
A611049062026X	4.90	4.90	62	26	•
A611050062026X	5.00	5.00	62	26	•
A611051062026X	5.10	5.10	62	26	•
A611052062026X	5.20	5.20	62	26	•
A611053062026X	5.30	5.30	62	26	•
A611054066028X	5.40	5.40	66	28	•
A611055066028X	5.50	5.50	66	28	•
A611056066028X	5.60	5.60	66	28	•
A611057066028X	5.70	5.70	66	28	•
A611058066028X	5.80	5.80	66	28	•
A611059066028X	5.90	5.90	66	28	•
A611060066028X	6.00	6.00	66	28	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A611061070031X	6.10	6.10	70	31	•
A611062070031X	6.20	6.20	70	31	•
A611063070031X	6.30	6.30	70	31	•
A6110635070031X	6.35	6.35	70	31	•
A611064070031X	6.40	6.40	70	31	•
A611065070031X	6.50	6.50	70	31	•
A611066070031X	6.60	6.60	70	31	•
A611067070031X	6.70	6.70	70	31	•
A611068074034X	6.80	6.80	74	34	•
A611069074034X	6.90	6.90	74	34	•
A611070074034X	7.00	7.00	74	34	•
A611071074034X	7.10	7.10	74	34	•
A611072074034X	7.20	7.20	74	34	•
A611073074034X	7.30	7.30	74	34	•
A611074074034X	7.40	7.40	74	34	•
A611075074034X	7.50	7.50	74	34	•
A611076079037X	7.60	7.60	79	37	•
A611077079037X	7.70	7.70	79	37	•
A611078079037X	7.80	7.80	79	37	•
A611079079037X	7.90	7.90	79	37	•
A611080079037X	8.00	8.00	79	37	•
A611081079037X	8.10	8.10	79	37	•
A611082079037X	8.20	8.20	79	37	•
A611083079037X	8.30	8.30	79	37	•
A611084079037X	8.40	8.40	79	37	•
A611085079037X	8.50	8.50	79	37	•
A611086084040X	8.60	8.60	84	40	•
A611087084040X	8.70	8.70	84	40	•
A611088084040X	8.80	8.80	84	40	•
A611089084040X	8.90	8.90	84	40	•
A611090084040X	9.00	9.00	84	40	•
A611091084040X	9.10	9.10	84	40	•
A611092084040X	9.20	9.20	84	40	•

• Disponibile a magazzino / in stock / auf Lager / en stock

◦ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A611093084040X	9.30	9.30	84	40	•
A611094084040X	9.40	9.40	84	40	•
A611095084040X	9.50	9.50	84	40	•
A611096089043X	9.60	9.60	89	43	•
A611097089043X	9.70	9.70	89	43	•
A611098089043X	9.80	9.80	89	43	•
A611099089043X	9.90	9.90	89	43	•
A611100089043X	10.00	10.00	89	43	•
A611101089043X	10.10	10.10	89	43	•
A611102089043X	10.20	10.20	89	43	•
A611105089043X	10.50	10.50	89	43	•
A611108095047X	10.80	10.80	95	47	•
A611110095047X	11.00	11.00	95	47	•
A611115095047X	11.50	11.50	95	47	•
A611120102051X	12.00	12.00	102	51	○
A611125102051X	12.50	12.50	102	51	○
A611130102051X	13.00	13.00	102	51	○
A611135107054X	13.50	13.50	107	54	○
A611140107054X	14.00	14.00	107	54	○
A611145111056X	14.50	14.50	111	56	○
A611150111056X	15.00	15.00	111	56	○
A611155115058X	15.50	15.50	115	58	○
A611160115058X	16.00	16.00	115	58	○
A611180123062X	18.00	18.00	123	62	○
A611200131066X	20.00	20.00	131	66	○

PUNTA ELICOIDALE 3XD AD ALTE PRESTAZIONI, S-TiAIN, SERIE A610

SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 3XD, S-TiAIN, TYPE A610

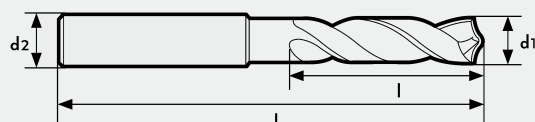


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	S-TiAIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A610025062020R	2.50	6.00	62	20	•
A610028062020R	2.80	6.00	62	20	•
A610030062020R	3.00	6.00	62	20	•
A610031062020R	3.10	6.00	62	20	•
A610032062020R	3.20	6.00	62	20	•
A610033062020R	3.30	6.00	62	20	•
A610034062020R	3.40	6.00	62	20	•
A610035062020R	3.50	6.00	62	20	•
A610036062020R	3.60	6.00	62	20	•
A610037062020R	3.70	6.00	62	20	•
A610038066024R	3.80	6.00	66	24	•
A610039066024R	3.90	6.00	66	24	•
A610040066024R	4.00	6.00	66	24	•
A610041066024R	4.10	6.00	66	24	•
A610042066024R	4.20	6.00	66	24	•
A610043066024R	4.30	6.00	66	24	•
A610044066024R	4.40	6.00	66	24	•
A610045066024R	4.50	6.00	66	24	•
A610046066024R	4.60	6.00	66	24	•
A610047066024R	4.70	6.00	66	24	•
A610048066028R	4.80	6.00	66	28	•
A610049066028R	4.90	6.00	66	28	•
A610050066028R	5.00	6.00	66	28	•
A610051066028R	5.10	6.00	66	28	•
A610052066028R	5.20	6.00	66	28	•
A610053066028R	5.30	6.00	66	28	•
A610054066028R	5.40	6.00	66	28	•
A610055066028R	5.50	6.00	66	28	•
A610056066028R	5.60	6.00	66	28	•
A610057066028R	5.70	6.00	66	28	•
A610058066028R	5.80	6.00	66	28	•
A610059066028R	5.90	6.00	66	28	•
A610060066028R	6.00	6.00	66	28	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A610063079034R	6.30	8.00	79	34	•
A610065079034R	6.50	8.00	79	34	•
A610068079034R	6.80	8.00	79	34	•
A610070079034R	7.00	8.00	79	34	•
A610075079041R	7.50	8.00	79	41	•
A610078079041R	7.80	8.00	79	41	•
A610080079041R	8.00	8.00	79	41	•
A610085089047R	8.50	10.00	89	47	•
A610088089047R	8.80	10.00	89	47	•
A610090089047R	9.00	10.00	89	47	•
A610102102055R	10.20	12.00	102	55	○
A610105102055R	10.50	12.00	102	55	○
A610108102055R	10.80	12.00	102	55	○
A610110102055R	11.00	12.00	102	55	○
A610115102055R	11.50	12.00	102	55	○
A610118102055R	11.80	12.00	102	55	○

• Disponibile a magazzino / in stock / auf Lager / en stock

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE 5XD AD ALTE PRESTAZIONI, S-TiAIN, SERIE A620

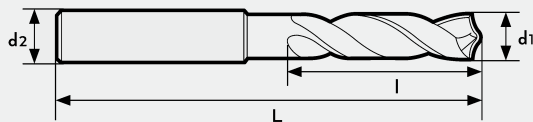
SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 5XD, S-TiAIN, TYPE A620

**CARATTERISTICHE**

• Metallo duro integrale
• Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

• Solid carbide
• Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze

**Design and technical spec**

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	S-TiAIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A620040074036R	4.00	6.00	74	36	•
A620042074036R	4.20	6.00	74	36	•
A620045074036R	4.50	6.00	74	36	•
A620050082044R	5.00	6.00	82	44	•
A620051082044R	5.10	6.00	82	44	•
A620055082044R	5.50	6.00	82	44	•
A620060082044R	6.00	6.00	82	44	•
A620065091053R	6.50	8.00	91	53	•
A620068091053R	6.80	8.00	91	53	•
A620070091053R	7.00	8.00	91	53	•
A620075091053R	7.50	8.00	91	53	•
A620080091053R	8.00	8.00	91	53	•
A620085103061R	8.50	10.00	103	61	•
A620088103061R	8.80	10.00	103	61	•
A620090103061R	9.00	10.00	103	61	•
A620095103061R	9.50	10.00	103	61	•
A620100103061R	10.00	10.00	103	61	•
A620105118071R	10.50	12.00	118	71	○
A620110118071R	11.00	12.00	118	71	○
A620120118071R	12.00	12.00	118	71	○

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE 3XD AD ALTE PRESTAZIONI CON RIVESTIMENTO MULTIFUNZIONALE, RED-Plus, SERIE A610

SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 3XD WITH MULTIFUNCTIONAL COATING, RED-Plus, TYPE A610

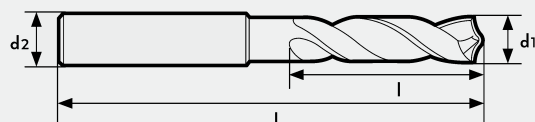


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	RED-Plus

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A610025062020X	2.50	6.00	62	20	•
A610028062020X	2.80	6.00	62	20	•
A610030062020X	3.00	6.00	62	20	•
A610031062020X	3.10	6.00	62	20	•
A610032062020X	3.20	6.00	62	20	•
A610033062020X	3.30	6.00	62	20	•
A610034062020X	3.40	6.00	62	20	•
A610035062020X	3.50	6.00	62	20	•
A610036062020X	3.60	6.00	62	20	•
A610037062020X	3.70	6.00	62	20	•
A610038066024X	3.80	6.00	66	24	•
A610039066024X	3.90	6.00	66	24	•
A610040066024X	4.00	6.00	66	24	•
A610041066024X	4.10	6.00	66	24	•
A610042066024X	4.20	6.00	66	24	•
A610043066024X	4.30	6.00	66	24	•
A610044066024X	4.40	6.00	66	24	•
A610045066024X	4.50	6.00	66	24	•
A610046066024X	4.60	6.00	66	24	•
A610047066024X	4.70	6.00	66	24	•
A610048066028X	4.80	6.00	66	28	•
A610049066028X	4.90	6.00	66	28	•
A610050066028X	5.00	6.00	66	28	•
A610051066028X	5.10	6.00	66	28	•
A610052066028X	5.20	6.00	66	28	•
A610053066028X	5.30	6.00	66	28	•
A610054066028X	5.40	6.00	66	28	•
A610055066028X	5.50	6.00	66	28	•
A610056066028X	5.60	6.00	66	28	•
A610057066028X	5.70	6.00	66	28	•
A610058066028X	5.80	6.00	66	28	•
A610059066028X	5.90	6.00	66	28	•
A610060066028X	6.00	6.00	66	28	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A610063079034X	6.30	8.00	79	34	•
A610065079034X	6.50	8.00	79	34	•
A610068079034X	6.80	8.00	79	34	•
A610070079034X	7.00	8.00	79	34	•
A610075079041X	7.50	8.00	79	41	•
A610078079041X	7.80	8.00	79	41	•
A610080079041X	8.00	8.00	79	41	•
A610085089047X	8.50	10.00	89	47	•
A610088089047X	8.80	10.00	89	47	•
A610090089047X	9.00	10.00	89	47	•
A610092089047X	9.20	10.00	89	47	•
A610095089047X	9.50	10.00	89	47	•
A610098089047X	9.80	10.00	89	47	•
A610100089047X	10.00	10.00	89	47	•
A610102102055X	10.20	12.00	102	55	○
A610105102055X	10.50	12.00	102	55	○
A610108102055X	10.80	12.00	102	55	○
A610110102055X	11.00	12.00	102	55	○
A610115102055X	11.50	12.00	102	55	○
A610118102055X	11.80	12.00	102	55	○
A610120102055X	12.00	12.00	102	55	○
A610125107060X	12.50	14.00	107	60	○
A610128107060X	12.80	14.00	107	60	○
A610130107060X	13.00	14.00	107	60	○
A610135107060X	13.50	14.00	107	60	○
A610140107060X	14.00	14.00	107	60	○

• Disponibile a magazzino / in stock / auf Lager / en stock

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

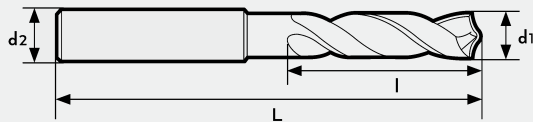
PUNTA ELICOIDALE 5XD AD ALTE PRESTAZIONI CON RIVESTIMENTO MULTIFUNZIONALE, RED-Plus, SERIE A620
SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 5XD WITH MULTIFUNCTIONAL COATING, RED-Plus, TYPE A620

CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze


Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	RED-Plus

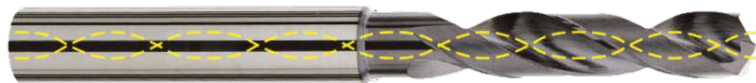
Codice	d1 mm	d2 mm	L mm	l mm	Stock
A620040074036X	4.00	6.00	74	36	•
A620042074036X	4.20	6.00	74	36	•
A620045074036X	4.50	6.00	74	36	•
A620050082044X	5.00	6.00	82	44	•
A620051082044X	5.10	6.00	82	44	•
A620055082044X	5.50	6.00	82	44	•
A620060082044X	6.00	6.00	82	44	•
A620065091053X	6.50	8.00	91	53	•
A620068091053X	6.80	8.00	91	53	•
A620070091053X	7.00	8.00	91	53	•
A620075091053X	7.50	8.00	91	53	•
A620080091053X	8.00	8.00	91	53	•
A620085103061X	8.50	10.00	103	61	•
A620088103061X	8.80	10.00	103	61	•
A620090103061X	9.00	10.00	103	61	•
A620095103061X	9.50	10.00	103	61	•
A620100103061X	10.00	10.00	103	61	•
A620105118071X	10.50	12.00	118	71	○
A620110118071X	11.00	12.00	118	71	○
A620120118071X	12.00	12.00	118	71	○

• Disponibile a magazzino / in stock / auf Lager / en stock

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE 3XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, S-TiAIN, SERIE A630

SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 3XD WITH INTERNAL COOLING, S-TiAIN, TYPE A630

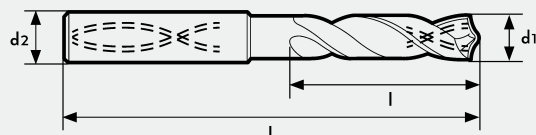


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	S-TiAIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A630030062020R	3.00	6.00	62	20	•
A630031062020R	3.10	6.00	62	20	•
A630033062020R	3.30	6.00	62	20	•
A630035062020R	3.50	6.00	62	20	•
A630037062020R	3.70	6.00	62	20	•
A630038066024R	3.80	6.00	66	24	•
A630040066024R	4.00	6.00	66	24	•
A630042066024R	4.20	6.00	66	24	•
A630045066024R	4.50	6.00	66	24	•
A630048066028R	4.80	6.00	66	28	•
A630050066028R	5.00	6.00	66	28	•
A630051066028R	5.10	6.00	66	28	•
A630052066028R	5.20	6.00	66	28	•
A630055066028R	5.50	6.00	66	28	•
A630058066028R	5.80	6.00	66	28	•
A630060066028R	6.00	6.00	66	28	•
A630063079034R	6.30	8.00	79	34	•
A630065079034R	6.50	8.00	79	34	•
A630068079034R	6.80	8.00	79	34	•
A630070079034R	7.00	8.00	79	34	•
A630075079041R	7.50	8.00	79	41	•
A630078079041R	7.80	8.00	79	41	•
A630080079041R	8.00	8.00	79	41	•
A630085089047R	8.50	10.00	89	47	•
A630088089047R	8.80	10.00	89	47	•
A630090089047R	9.00	10.00	89	47	•
A630092089047R	9.20	10.00	89	47	•
A630095089047R	9.50	10.00	89	47	•
A630098089047R	9.80	10.00	89	47	•
A630100089047R	10.00	10.00	89	47	•
A630102102055R	10.20	12.00	102	55	•
A630105102055R	10.50	12.00	102	55	•
A630108102055R	10.80	12.00	102	55	•

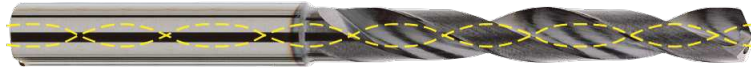
Codice	d1 mm	d2 mm	L mm	l mm	Stock
A630110102055R	11.00	12.00	102	55	•
A630115102055R	11.50	12.00	102	55	•
A630118102055R	11.80	12.00	102	55	•
A630120102055R	12.00	12.00	102	55	•
A630125107060R	12.50	14.00	107	60	•
A630128107060R	12.80	14.00	107	60	•
A630130107060R	13.00	14.00	107	60	•
A630135107060R	13.50	14.00	107	60	•
A630140107060R	14.00	14.00	107	60	•
A630145115065R	14.50	16.00	115	65	○
A630150115065R	15.00	16.00	115	65	○
A630155115065R	15.50	16.00	115	65	○
A630160115065R	16.00	16.00	115	65	○
A630165123073R	16.50	18.00	123	73	○
A630170123073R	17.00	18.00	123	73	○
A630175123073R	17.50	18.00	123	73	○
A630180123073R	18.00	18.00	123	73	○
A630200131079R	20.00	20.00	131	79	○

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE 5XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, S-TiAIN, SERIE A640

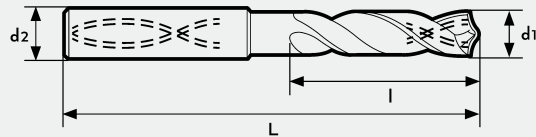
SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 5XD WITH INTERNAL COOLING, S-TiAIN, TYPE A640

**CARATTERISTICHE**

• Metallo duro integrale
• Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

• Solid carbide
• Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze

**Design and technical spec**

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	S-TiAIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A640030066028R	3.00	6.00	66	28	•
A640031066028R	3.10	6.00	66	28	•
A640033066028R	3.30	6.00	66	28	•
A640035066028R	3.50	6.00	66	28	•
A640037066028R	3.70	6.00	66	28	•
A640038074036R	3.80	6.00	74	36	•
A640040074036R	4.00	6.00	74	36	•
A640042074036R	4.20	6.00	74	36	•
A640045074036R	4.50	6.00	74	36	•
A640048082044R	4.80	6.00	82	44	•
A640050082044R	5.00	6.00	82	44	•
A640051082044R	5.10	6.00	82	44	•
A640052082044R	5.20	6.00	82	44	•
A640055082044R	5.50	6.00	82	44	•
A640058082044R	5.80	6.00	82	44	•
A640060082044R	6.00	6.00	82	44	•
A640063091053R	6.30	8.00	91	53	•
A640065091053R	6.50	8.00	91	53	•
A640068091053R	6.80	8.00	91	53	•
A640070091053R	7.00	8.00	91	53	•
A640075091053R	7.50	8.00	91	53	•
A640078091053R	7.80	8.00	91	53	•
A640080091053R	8.00	8.00	91	53	•
A640085103061R	8.50	10.00	103	61	•
A640088103061R	8.80	10.00	103	61	•
A640090103061R	9.00	10.00	103	61	•
A640092103061R	9.20	10.00	103	61	•
A640095103061R	9.50	10.00	103	61	•
A640098103061R	9.80	10.00	103	61	•
A640100103061R	10.00	10.00	103	61	•
A640102118071R	10.20	12.00	118	71	•
A640105118071R	10.50	12.00	118	71	•
A640108118071R	10.80	12.00	118	71	•

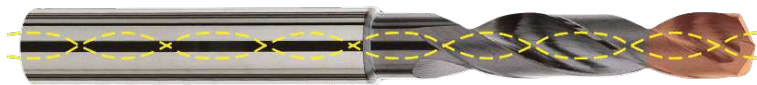
Codice	d1 mm	d2 mm	L mm	l mm	Stock
A640110118071R	11.00	12.00	118	71	•
A640115118071R	11.50	12.00	118	71	•
A640118118071R	11.80	12.00	118	71	•
A640120118071R	12.00	12.00	118	71	•
A640123124077R	12.30	14.00	124	77	•
A640125124077R	12.50	14.00	124	77	•
A640128124077R	12.80	14.00	124	77	•
A640130124077R	13.00	14.00	124	77	•
A640135124077R	13.50	14.00	124	77	•
A640140124077R	14.00	14.00	124	77	•
A640145133083R	14.50	16.00	133	83	•
A640150133083R	15.00	16.00	133	83	•
A640155133083R	15.50	16.00	133	83	•
A640160133083R	16.00	16.00	133	83	•
A640165143093R	16.50	18.00	143	93	○
A640170143093R	17.00	18.00	143	93	○
A640175143093R	17.50	18.00	143	93	○
A640180143093R	18.00	18.00	143	93	○
A640200153101R	20.00	20.00	153	101	○

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE 3XD AD ALTE PRESTAZIONI CON RIVESTIMENTO MULTIFUNZIONALE, RED-Plus, SERIE A630

SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 3XD WITH MULTIFUNCTIONAL COATING, RED-Plus, TYPE A630

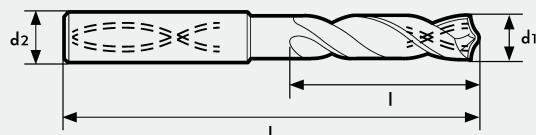


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	RED-Plus

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A630030062020X	3.00	6.00	62	20	•
A630031062020X	3.10	6.00	62	20	•
A630033062020X	3.30	6.00	62	20	•
A630035062020X	3.50	6.00	62	20	•
A630037062020X	3.70	6.00	62	20	•
A630038066024X	3.80	6.00	66	24	•
A630040066024X	4.00	6.00	66	24	•
A630042066024X	4.20	6.00	66	24	•
A630045066024X	4.50	6.00	66	24	•
A630048066028X	4.80	6.00	66	28	•
A630050066028X	5.00	6.00	66	28	•
A630051066028X	5.10	6.00	66	28	•
A630052066028X	5.20	6.00	66	28	•
A630055066028X	5.50	6.00	66	28	•
A630058066028X	5.80	6.00	66	28	•
A630060066028X	6.00	6.00	66	28	•
A630063079034X	6.30	8.00	79	34	•
A630065079034X	6.50	8.00	79	34	•
A630068079034X	6.80	8.00	79	34	•
A630070079034X	7.00	8.00	79	34	•
A630075079041X	7.50	8.00	79	41	•
A630078079041X	7.80	8.00	79	41	•
A630080079041X	8.00	8.00	79	41	•
A630085089047X	8.50	10.00	89	47	•
A630088089047X	8.80	10.00	89	47	•
A630090089047X	9.00	10.00	89	47	•
A630092089047X	9.20	10.00	89	47	•
A630095089047X	9.50	10.00	89	47	•
A630098089047X	9.80	10.00	89	47	•
A630100089047X	10.00	10.00	89	47	•
A630102102055X	10.20	12.00	102	55	•
A630105102055X	10.50	12.00	102	55	•
A630108102055X	10.80	12.00	102	55	•

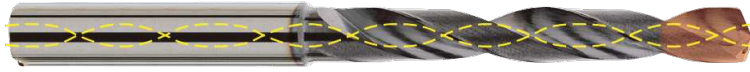
Codice	d1 mm	d2 mm	L mm	l mm	Stock
A630110102055X	11.00	12.00	102	55	•
A630115102055X	11.50	12.00	102	55	•
A630118102055X	11.80	12.00	102	55	•
A630120102055X	12.00	12.00	102	55	•
A630125107060X	12.50	14.00	107	60	•
A630128107060X	12.80	14.00	107	60	•
A630130107060X	13.00	14.00	107	60	•
A630135107060X	13.50	14.00	107	60	•
A630140107060X	14.00	14.00	107	60	•
A630145115065X	14.50	16.00	115	65	○
A630150115065X	15.00	16.00	115	65	○
A630155115065X	15.50	16.00	115	65	○
A630160115065X	16.00	16.00	115	65	○
A630165123073X	16.50	18.00	123	73	○
A630170123073X	17.00	18.00	123	73	○
A630175123073X	17.50	18.00	123	73	○
A630180123073X	18.00	18.00	123	73	○
A630200131079X	20.00	20.00	131	79	○

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE 5XD AD ALTE PRESTAZIONI CON RIVESTIMENTO MULTIFUNZIONALE, RED-Plus, SERIE A640

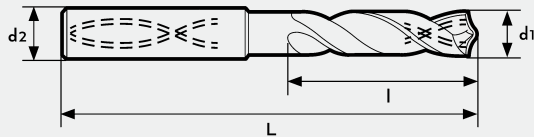
SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 5XD WITH MULTIFUNCTIONAL COATING, RED-Plus, TYPE A640

**CARATTERISTICHE**

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze

**Design and technical spec**

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	RED-Plus

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A640030066028X	3.00	6.00	66	28	•
A640031066028X	3.10	6.00	66	28	•
A640033066028X	3.30	6.00	66	28	•
A640035066028X	3.50	6.00	66	28	•
A640037066028X	3.70	6.00	66	28	•
A640038074036X	3.80	6.00	74	36	•
A640040074036X	4.00	6.00	74	36	•
A640042074036X	4.20	6.00	74	36	•
A640045074036X	4.50	6.00	74	36	•
A640048082044X	4.80	6.00	82	44	•
A640050082044X	5.00	6.00	82	44	•
A640051082044X	5.10	6.00	82	44	•
A640052082044X	5.20	6.00	82	44	•
A640055082044X	5.50	6.00	82	44	•
A640058082044X	5.80	6.00	82	44	•
A640060082044X	6.00	6.00	82	44	•
A640063091053X	6.30	8.00	91	53	•
A640065091053X	6.50	8.00	91	53	•
A640068091053X	6.80	8.00	91	53	•
A640070091053X	7.00	8.00	91	53	•
A640075091053X	7.50	8.00	91	53	•
A640078091053X	7.80	8.00	91	53	•
A640080091053X	8.00	8.00	91	53	•
A640085103061X	8.50	10.00	103	61	•
A640088103061X	8.80	10.00	103	61	•
A640090103061X	9.00	10.00	103	61	•
A640092103061X	9.20	10.00	103	61	•
A640095103061X	9.50	10.00	103	61	•
A640098103061X	9.80	10.00	103	61	•
A640100103061X	10.00	10.00	103	61	•
A640102118071X	10.20	12.00	118	71	•
A640105118071X	10.50	12.00	118	71	•
A640108118071X	10.80	12.00	118	71	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A640110118071X	11.00	12.00	118	71	•
A640115118071X	11.50	12.00	118	71	•
A640118118071X	11.80	12.00	118	71	•
A640120118071X	12.00	12.00	118	71	•
A640123124077X	12.30	14.00	124	77	•
A640125124077X	12.50	14.00	124	77	•
A640128124077X	12.80	14.00	124	77	•
A640130124077X	13.00	14.00	124	77	•
A640135124077X	13.50	14.00	124	77	•
A640140124077X	14.00	14.00	124	77	•
A640145133083X	14.50	16.00	133	83	•
A640150133083X	15.00	16.00	133	83	•
A640155133083X	15.50	16.00	133	83	•
A640160133083X	16.00	16.00	133	83	•
A640165143093X	16.50	18.00	143	93	○
A640170143093X	17.00	18.00	143	93	○
A640175143093X	17.50	18.00	143	93	○
A640180143093X	18.00	18.00	143	93	○
A640200153101X	20.00	20.00	153	101	○

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE 8XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, S-TiAIN, SERIE A650

SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 8XD WITH INTERNAL COOLING, S-TiAIN, TYPE A650

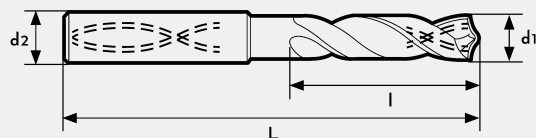


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	S-TiAIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A650035072034R	3.50	6.00	72	34	•
A650037072034R	3.70	6.00	72	34	•
A650038081043R	3.80	6.00	81	43	•
A650040081043R	4.00	6.00	81	43	•
A650042081043R	4.20	6.00	81	43	•
A650045081043R	4.50	6.00	81	43	•
A650048095057R	4.80	6.00	95	57	•
A650050095057R	5.00	6.00	95	57	•
A650051095057R	5.10	6.00	95	57	•
A650052095057R	5.20	6.00	95	57	•
A650055095057R	5.50	6.00	95	57	•
A650058095057R	5.80	6.00	95	57	•
A650060095057R	6.00	6.00	95	57	•
A650063114076R	6.30	8.00	114	76	•
A650065114076R	6.50	8.00	114	76	•
A650068114076R	6.80	8.00	114	76	•
A650070114076R	7.00	8.00	114	76	•
A650075114076R	7.50	8.00	114	76	•
A650078114076R	7.80	8.00	114	76	•
A650080114076R	8.00	8.00	114	76	•
A650085142095R	8.50	10.00	142	95	•
A650088142095R	8.80	10.00	142	95	•
A650090142095R	9.00	10.00	142	95	•
A650092142095R	9.20	10.00	142	95	•
A650095142095R	9.50	10.00	142	95	•
A650098142095R	9.80	10.00	142	95	•
A650100142095R	10.00	10.00	142	95	•
A650102162114R	10.20	12.00	162	114	•
A650105162114R	10.50	12.00	162	114	•
A650108162114R	10.80	12.00	162	114	•
A650110162114R	11.00	12.00	162	114	•
A650115162114R	11.50	12.00	162	114	•
A650118162114R	11.80	12.00	162	114	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A650120162114R	12.00	12.00	162	114	•

• **Disponibile a magazzino / in stock / auf Lager / en stock**

◦ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

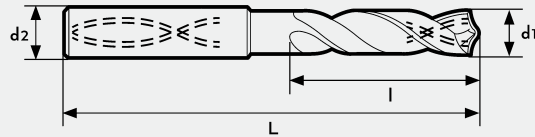
PUNTA ELICOIDALE 8XD AD ALTE PRESTAZIONI CON RIVESTIMENTO MULTIFUNZIONALE, RED-Plus, SERIE A650
SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 8XD WITH MULTIFUNCTIONAL COATING, RED-Plus, TYPE A650

CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze


Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	RED-Plus

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A650035072034X	3.50	6.00	72	34	•
A650037072034X	3.70	6.00	72	34	•
A650038081043X	3.80	6.00	81	43	•
A650040081043X	4.00	6.00	81	43	•
A650042081043X	4.20	6.00	81	43	•
A650045081043X	4.50	6.00	81	43	•
A650048095057X	4.80	6.00	95	57	•
A650050095057X	5.00	6.00	95	57	•
A650051095057X	5.10	6.00	95	57	•
A650052095057X	5.20	6.00	95	57	•
A650055095057X	5.50	6.00	95	57	•
A650058095057X	5.80	6.00	95	57	•
A650060095057X	6.00	6.00	95	57	•
A650063114076X	6.30	8.00	114	76	•
A650065114076X	6.50	8.00	114	76	•
A650068114076X	6.80	8.00	114	76	•
A650070114076X	7.00	8.00	114	76	•
A650075114076X	7.50	8.00	114	76	•
A650078114076X	7.80	8.00	114	76	•
A650080114076X	8.00	8.00	114	76	•
A650085142095X	8.50	10.00	142	95	•
A650088142095X	8.80	10.00	142	95	•
A650090142095X	9.00	10.00	142	95	•
A650092142095X	9.20	10.00	142	95	•
A650095142095X	9.50	10.00	142	95	•
A650098142095X	9.80	10.00	142	95	•
A650100142095X	10.00	10.00	142	95	•
A650102162114X	10.20	12.00	162	114	•
A650105162114X	10.50	12.00	162	114	•
A650108162114X	10.80	12.00	162	114	•
A650110162114X	11.00	12.00	162	114	•
A650115162114X	11.50	12.00	162	114	•
A650118162114X	11.80	12.00	162	114	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A650120162114X	12.00	12.00	162	114	•

• Disponibile a magazzino / in stock / auf Lager / en stock

• Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE 15XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, S-TIAIN, SERIE A670

SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 15XD WITH INTERNAL COOLING, S-TIAIN, TYPE A670

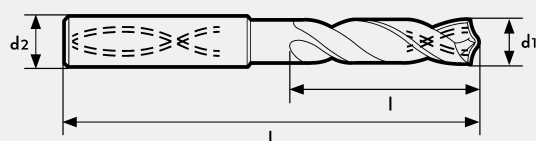


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	h7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	S-TIAIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A670040108068R	4.00	6.00	108	68	•
A670045115078R	4.50	6.00	115	78	•
A670050125084R	5.00	6.00	125	84	•
A670055130092R	5.50	6.00	130	92	•
A670060140100R	6.00	6.00	140	100	•
A670065145108R	6.50	8.00	145	108	•
A670070170130R	7.00	8.00	170	130	•
A670075170130R	7.50	8.00	170	130	•
A670080170130R	8.00	8.00	170	130	•
A670085208163R	8.50	10.00	208	163	•
A670090208163R	9.00	10.00	208	163	•
A670095208163R	9.50	10.00	208	163	•
A670100208163R	10.00	10.00	208	163	•
A670105245195R	10.50	12.00	245	195	•
A670110245195R	11.00	12.00	245	195	•
A670115245195R	11.50	12.00	245	195	•
A670120245195R	12.00	12.00	245	195	•

• Disponibile a magazzino / in stock / auf Lager / en stock

- Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE 20XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, S-TIAIN, SERIE A680

SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 20XD WITH INTERNAL COOLING, S-TIAIN, TYPE A680

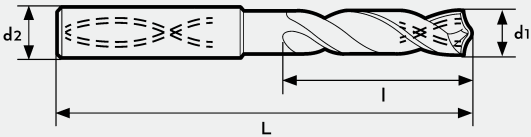


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	h7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	S-TIAIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A680050155116R	5.00	6.00	155	116	•
A680060172135R	6.00	6.00	172	135	•
A680065186145R	6.50	8.00	186	145	•
A680070201160R	7.00	8.00	201	160	•
A680075211170R	7.50	8.00	211	170	•
A680080221181R	8.00	8.00	221	181	•
A680085236192R	8.50	10.00	236	192	•
A680090247203R	9.00	10.00	247	203	•
A680095259214R	9.50	10.00	259	214	•
A680100267225R	10.00	10.00	267	225	•

- Disponibile a magazzino / in stock / auf Lager / en stock
 - Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE 5XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, ZrN, SERIE A622

SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 5XD WITH INTERNAL COOLING, ZrN, TYPE A622

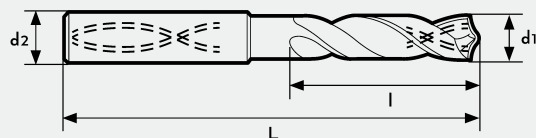


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di alluminio, leghe, rame, ottone, bronzo, materie plastiche

FEATURES

- Solid carbide
- Suitable to aluminium, alloys, copper, brass, bronze, plastic materials



Design and technical spec

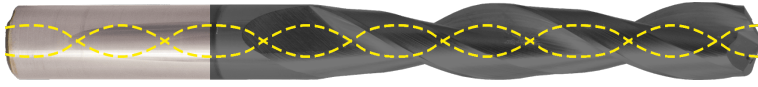
Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	ZrN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A622030066028Z	3.00	6.00	66	28	•
A622031066028Z	3.10	6.00	66	28	•
A622033066028Z	3.30	6.00	66	28	•
A622035066028Z	3.50	6.00	66	28	•
A622037066028Z	3.70	6.00	66	28	•
A622038074036Z	3.80	6.00	74	36	•
A622040074036Z	4.00	6.00	74	36	•
A622042074036Z	4.20	6.00	74	36	•
A622045074036Z	4.50	6.00	74	36	•
A622048082044Z	4.80	6.00	82	44	•
A622050082044Z	5.00	6.00	82	44	•
A622051082044Z	5.10	6.00	82	44	•
A622052082044Z	5.20	6.00	82	44	•
A622055082044Z	5.50	6.00	82	44	•
A622058082044Z	5.80	6.00	82	44	•
A622060082044Z	6.00	6.00	82	44	•
A622063091053Z	6.30	8.00	91	53	•
A622065091053Z	6.50	8.00	91	53	•
A622068091053Z	6.80	8.00	91	53	•
A622070091053Z	7.00	8.00	91	53	•
A622075091053Z	7.50	8.00	91	53	•
A622078091053Z	7.80	8.00	91	53	•
A622080091053Z	8.00	8.00	91	53	•
A622085103061Z	8.50	10.00	103	61	•
A622088103061Z	8.80	10.00	103	61	•
A622090103061Z	9.00	10.00	103	61	•
A622092103061Z	9.20	10.00	103	61	•
A622095103061Z	9.50	10.00	103	61	•
A622098103061Z	9.80	10.00	103	61	•
A622100103061Z	10.00	10.00	103	61	•
A622102118071Z	10.20	12.00	118	71	•
A622105118071Z	10.50	12.00	118	71	•
A622108118071Z	10.80	12.00	118	71	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A622110118071Z	11.00	12.00	118	71	•
A622115118071Z	11.50	12.00	118	71	•
A622118118071Z	11.80	12.00	118	71	•
A622120118071Z	12.00	12.00	118	71	•

• **Disponibile a magazzino / in stock / auf Lager / en stock**

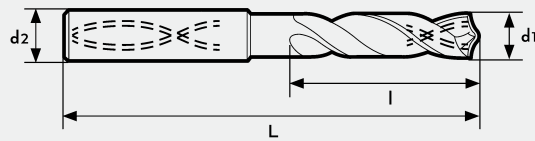
◦ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE 5XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, DLC, SERIE A622
SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 5XD WITH INTERNAL COOLING, DLC, TYPE A622

CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di alluminio, leghe, rame, ottone, bronzo, materie plastiche

FEATURES

- Solid carbide
- Suitable to aluminium, alloys, copper, brass, bronze, plastic materials


Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	DLC

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A622030066028D	3.00	6.00	66	28	•
A622031066028D	3.10	6.00	66	28	•
A622033066028D	3.30	6.00	66	28	•
A622035066028D	3.50	6.00	66	28	•
A622037066028D	3.70	6.00	66	28	•
A622038074036D	3.80	6.00	74	36	•
A622040074036D	4.00	6.00	74	36	•
A622042074036D	4.20	6.00	74	36	•
A622045074036D	4.50	6.00	74	36	•
A622048082044D	4.80	6.00	82	44	•
A622050082044D	5.00	6.00	82	44	•
A622051082044D	5.10	6.00	82	44	•
A622052082044D	5.20	6.00	82	44	•
A622055082044D	5.50	6.00	82	44	•
A622058082044D	5.80	6.00	82	44	•
A622060082044D	6.00	6.00	82	44	•
A622063091053D	6.30	8.00	91	53	•
A622065091053D	6.50	8.00	91	53	•
A622068091053D	6.80	8.00	91	53	•
A622070091053D	7.00	8.00	91	53	•
A622075091053D	7.50	8.00	91	53	•
A622078091053D	7.80	8.00	91	53	•
A622080091053D	8.00	8.00	91	53	•
A622085103061D	8.50	10.00	103	61	•
A622088103061D	8.80	10.00	103	61	•
A622090103061D	9.00	10.00	103	61	•
A622092103061D	9.20	10.00	103	61	•
A622095103061D	9.50	10.00	103	61	•
A622098103061D	9.80	10.00	103	61	•
A622100103061D	10.00	10.00	103	61	•
A622102118071D	10.20	12.00	118	71	•
A622105118071D	10.50	12.00	118	71	•
A622108118071D	10.80	12.00	118	71	•

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A622110118071D	11.00	12.00	118	71	•
A622115118071D	11.50	12.00	118	71	•
A622118118071D	11.80	12.00	118	71	•
A622120118071D	12.00	12.00	118	71	•

• Disponibile a magazzino / in stock / auf Lager / en stock

• Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE 8XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, ZrN, SERIE A651

SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 8XD WITH INTERNAL COOLING, ZrN, TYPE A651

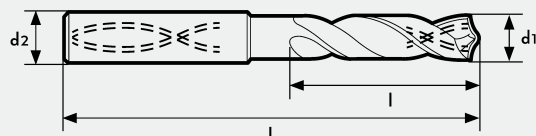


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di alluminio, leghe, rame, ottone, bronzo, materie plastiche

FEATURES

- Solid carbide
- Suitable to aluminium, alloys, copper, brass, bronze, plastic materials



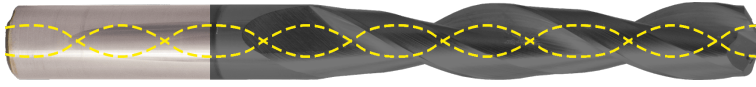
Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	ZrN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A651040081043Z	4.00	6.00	81	43	•
A651042081043Z	4.20	6.00	81	43	•
A651045081043Z	4.50	6.00	81	43	•
A651048095057Z	4.80	6.00	95	57	•
A651050095057Z	5.00	6.00	95	57	•
A651051095057Z	5.10	6.00	95	57	•
A651052095057Z	5.20	6.00	95	57	•
A651055095057Z	5.50	6.00	95	57	•
A651058095057Z	5.80	6.00	95	57	•
A651060095057Z	6.00	6.00	95	57	•
A651063114076Z	6.30	8.00	114	76	•
A651065114076Z	6.50	8.00	114	76	•
A651068114076Z	6.80	8.00	114	76	•
A651070114076Z	7.00	8.00	114	76	•
A651075114076Z	7.50	8.00	114	76	•
A651078114076Z	7.80	8.00	114	76	•
A651080114076Z	8.00	8.00	114	76	•
A651085142095Z	8.50	10.00	142	95	•
A651088142095Z	8.80	10.00	142	95	•
A651090142095Z	9.00	10.00	142	95	•
A651092142095Z	9.20	10.00	142	95	•
A651095142095Z	9.50	10.00	142	95	•
A651098142095Z	9.80	10.00	142	95	•
A651100142095Z	10.00	10.00	142	95	•
A651102162114Z	10.20	12.00	162	114	•
A651105162114Z	10.50	12.00	162	114	•
A651108162114Z	10.80	12.00	162	114	•
A651110162114Z	11.00	12.00	162	114	•
A651115162114Z	11.50	12.00	162	114	•
A651118162114Z	11.80	12.00	162	114	•
A651120162114Z	12.00	12.00	162	114	•

• Disponibile a magazzino / in stock / auf Lager / en stock

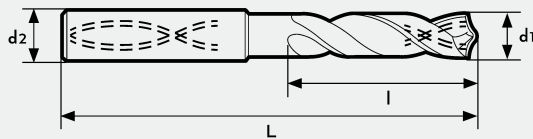
○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA ELICOIDALE 8XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, DLC, SERIE A651
SOLID CARBIDE HIGH PERFORMANCE TWIST DRILL 8XD WITH INTERNAL COOLING, DLC, TYPE A651

CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di alluminio, leghe, rame, ottone, bronzo, materie plastiche

FEATURES

- Solid carbide
- Suitable to aluminium, alloys, copper, brass, bronze, plastic materials


Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	DLC

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A651040081043D	4.00	6.00	81	43	•
A651042081043D	4.20	6.00	81	43	•
A651045081043D	4.50	6.00	81	43	•
A651048095057D	4.80	6.00	95	57	•
A651050095057D	5.00	6.00	95	57	•
A651051095057D	5.10	6.00	95	57	•
A651052095057D	5.20	6.00	95	57	•
A651055095057D	5.50	6.00	95	57	•
A651058095057D	5.80	6.00	95	57	•
A651060095057D	6.00	6.00	95	57	•
A651063114076D	6.30	8.00	114	76	•
A651065114076D	6.50	8.00	114	76	•
A651068114076D	6.80	8.00	114	76	•
A651070114076D	7.00	8.00	114	76	•
A651075114076D	7.50	8.00	114	76	•
A651078114076D	7.80	8.00	114	76	•
A651080114076D	8.00	8.00	114	76	•
A651085142095D	8.50	10.00	142	95	•
A651088142095D	8.80	10.00	142	95	•
A651090142095D	9.00	10.00	142	95	•
A651092142095D	9.20	10.00	142	95	•
A651095142095D	9.50	10.00	142	95	•
A651098142095D	9.80	10.00	142	95	•
A651100142095D	10.00	10.00	142	95	•
A651102162114D	10.20	12.00	162	114	•
A651105162114D	10.50	12.00	162	114	•
A651108162114D	10.80	12.00	162	114	•
A651110162114D	11.00	12.00	162	114	•
A651115162114D	11.50	12.00	162	114	•
A651118162114D	11.80	12.00	162	114	•
A651120162114D	12.00	12.00	162	114	•

• Disponibile a magazzino / in stock / auf Lager / en stock

• Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA MD 5XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE PER GHISA, S-TiAIN, SERIE A621

SOLID CARBIDE HIGH PERFORMANCE DRILL 5XD WITH INTERNAL COOLING FOR IRON MATERIALS, S-TiAIN, TYPE A621

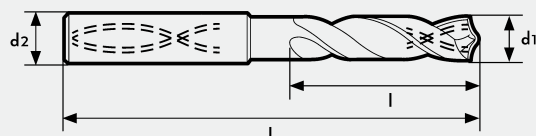


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di ghisa, ghisa grigia, ghisa malleabile

FEATURES

- Solid carbide
- Suitable to cast iron, grey iron, malleable iron



Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	S-TiAIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A621060082044R	6.00	6.00	82	44	•
A621065091053R	6.50	8.00	91	53	•
A621068091053R	6.80	8.00	91	53	•
A621070091053R	7.00	8.00	91	53	•
A621075091053R	7.50	8.00	91	53	•
A621078091053R	7.80	8.00	91	53	•
A621080091053R	8.00	8.00	91	53	•
A621085103061R	8.50	10.00	103	61	•
A621088103061R	8.80	10.00	103	61	•
A621090103061R	9.00	10.00	103	61	•
A621095103061R	9.50	10.00	103	61	•
A621098103061R	9.80	10.00	103	61	•
A621100103061R	10.00	10.00	103	61	•
A621102118071R	10.20	12.00	118	71	•
A621105118071R	10.50	12.00	118	71	•
A621108118071R	10.80	12.00	118	71	•
A621110118071R	11.00	12.00	118	71	•
A621115118071R	11.50	12.00	118	71	•
A621118118071R	11.80	12.00	118	71	•
A621120118071R	12.00	12.00	118	71	•

• Disponibile a magazzino / in stock / auf Lager / en stock

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

MICRO PUNTA ELICOIDALE 5XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, S-TiAIN, SERIE A623

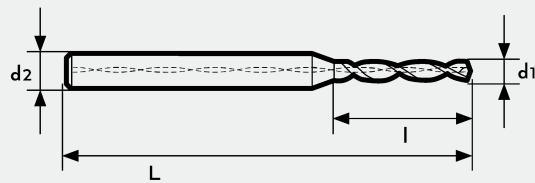
SOLID CARBIDE HIGH PERFORMANCE TWIST MICRO DRILL 5XD WITH INTERNAL COOLING, S-TiAIN, TYPE A623

**CARATTERISTICHE**

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze

**Design and technical spec**

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	S-TiAIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A623010055008R	1.00	3.00	55	8	•
A623011055012R	1.10	3.00	55	12	•
A623012055012R	1.20	3.00	55	12	•
A623013055012R	1.30	3.00	55	12	•
A623014055012R	1.40	3.00	55	12	•
A623015055012R	1.50	3.00	55	12	•
A623016065016R	1.60	3.00	65	16	•
A623017065016R	1.70	3.00	65	16	•
A623018065016R	1.80	3.00	65	16	•
A623019065016R	1.90	3.00	65	16	•
A623020065016R	2.00	3.00	65	16	•
A623021074020R	2.10	3.00	74	20	•
A623022074020R	2.20	3.00	74	20	•
A623023074020R	2.30	3.00	74	20	•
A623024074020R	2.40	3.00	74	20	•
A623025074020R	2.50	3.00	74	20	•
A623026081023R	2.60	3.00	81	23	•
A623027081023R	2.70	3.00	81	23	•
A623028081023R	2.80	3.00	81	23	•
A623029081023R	2.90	3.00	81	23	•

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

MICRO PUNTA ELICOIDALE 8XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, S-TiAIN, SERIE A652

SOLID CARBIDE HIGH PERFORMANCE TWIST MICRO DRILL 8XD WITH INTERNAL COOLING, S-TiAIN, TYPE A652

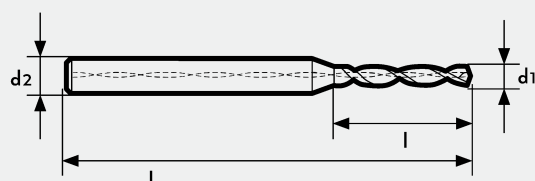


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	S-TiAIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A652010055011R	1.00	3.00	55	11	•
A652011055017R	1.10	3.00	55	17	•
A652012055017R	1.20	3.00	55	17	•
A652013055017R	1.30	3.00	55	17	•
A652014055017R	1.40	3.00	55	17	•
A652015055017R	1.50	3.00	55	17	•
A652016065022R	1.60	3.00	65	22	•
A652017065022R	1.70	3.00	65	22	•
A652018065022R	1.80	3.00	65	22	•
A652019065022R	1.90	3.00	65	22	•
A652020065022R	2.00	3.00	65	22	•
A652021074028R	2.10	3.00	74	28	•
A652022074028R	2.20	3.00	74	28	•
A652023074028R	2.30	3.00	74	28	•
A652024074028R	2.40	3.00	74	28	•
A652025074028R	2.50	3.00	74	28	•
A652026081032R	2.60	3.00	81	32	•
A652027081032R	2.70	3.00	81	32	•
A652028081032R	2.80	3.00	81	32	•
A652029081032R	2.90	3.00	81	32	•

• Disponibile a magazzino / in stock / auf Lager / en stock

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

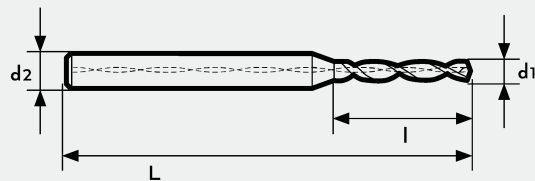
MICRO PUNTA ELICOIDALE 12XD AD ALTE PRESTAZIONI CON FORI DI LUBRIFICAZIONE, S-TiAIN, SERIE A661
SOLID CARBIDE HIGH PERFORMANCE TWIST MICRO DRILL 12XD WITH INTERNAL COOLING, S-TiAIN, TYPE A661

CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, inossidabili, ghisa, ghisa grigia, ghisa malleabile, leghe di Cr-Ni, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, stainless steels, cast iron, grey iron, malleable iron, Cr-Ni alloys, aluminium, alloys, copper, brass, bronze


Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	S-TiAIN

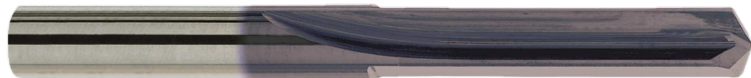
Codice	d1 mm	d2 mm	L mm	l mm	Stock
A661010055015R	1.00	3.00	55	15	•
A661011055023R	1.10	3.00	55	23	•
A661012055023R	1.20	3.00	55	23	•
A661013055023R	1.30	3.00	55	23	•
A661014055023R	1.40	3.00	55	23	•
A661015055023R	1.50	3.00	55	23	•
A661016065030R	1.60	3.00	65	30	•
A661017065030R	1.70	3.00	65	30	•
A661018065030R	1.80	3.00	65	30	•
A661019065030R	1.90	3.00	65	30	•
A661020065030R	2.00	3.00	65	30	•
A661021074038R	2.10	3.00	74	38	•
A661022074038R	2.20	3.00	74	38	•
A661023074038R	2.30	3.00	74	38	•
A661024074038R	2.40	3.00	74	38	•
A661025074038R	2.50	3.00	74	38	•
A661026081044R	2.60	3.00	81	44	•
A661027081044R	2.70	3.00	81	44	•
A661028081044R	2.80	3.00	81	44	•
A661029081044R	2.90	3.00	81	44	•

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA 3XD AD ALTE PRESTAZIONI DENTI DRITTI, S-TiAIN, SERIE A710

HIGH SPEED STRAIGHT FLUTE DRILL 3XD, S-TiAIN, TYPE A710

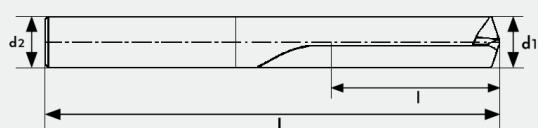


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, resistenti alle temperature

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, heat resistant steels



Design and technical spec

Helix angle	0°
Point angle	135°
Tolerance d1	m7 (d2:h6)
Other specifications	DIN 6539 - DIN 6535 HA
Finish	Lapped
Coating	S-TiAIN

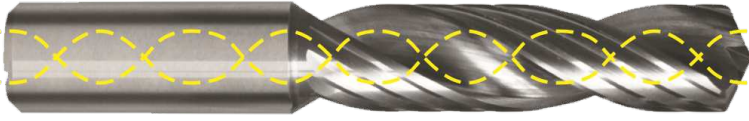
Codice	d1 mm	d2 mm	L mm	l mm	Stock
A710020038012R	2.00	2.00	38	7	•
A710025043014R	2.50	2.50	43	8	•
A710030046016R	3.00	3.00	46	10	•
A710033046016R	3.30	3.30	46	10	•
A710035052020R	3.50	3.50	52	12	•
A710040055022R	4.00	4.00	55	14	•
A710042055022R	4.20	4.20	55	14	•
A710050062026R	5.00	5.00	62	18	•
A710060066028R	6.00	6.00	66	20	•
A710068074034R	6.80	6.80	74	22	•
A710070074034R	7.00	7.00	74	22	•
A710080079037R	8.00	8.00	79	26	•
A710085079037R	8.50	8.50	79	26	•
A710100089043R	10.00	10.00	89	32	•
A710120102051R	12.00	12.00	102	38	•

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA 5XD PER FORATURA E ALESATURA ELICOIDALE CON FORI DI LUBRIFICAZIONE, S-TiAIN, SERIE A624

DRILLING AND REAMING DRILL 5XD WITH INTERNAL COOLING, S-TiAIN, TYPE A624

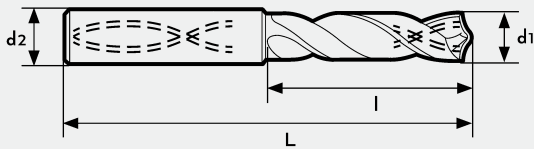


CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di acciai non legati, alto legati, resistenti alle temperature, leghe di Cr-Ni, leghe di titanio, alluminio, leghe, rame, ottone, bronzo

FEATURES

- Solid carbide
- Suitable to non-alloyed steels, alloyed steels, heat resistant steels, Cr-Ni alloys, titan alloys, aluminium, alloys, copper, brass, bronze



Design and technical spec

Helix angle	30°
Point angle	140°
Tolerance d1	H7 (d2:h6)
Other specifications	DIN 6537 - DIN 6535 HA
Finish	Lapped
Coating	S-TiAIN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A624030066028R	3.00	6.00	66	28	•
A624040074036R	4.00	6.00	74	36	•
A624050082044R	5.00	6.00	82	44	•
A624060082044R	6.00	6.00	82	44	•
A624070091053R	7.00	8.00	91	53	•
A624080091053R	8.00	8.00	91	53	•
A624090103061R	9.00	10.00	103	61	•
A624100103061R	10.00	10.00	103	61	•
A624110118071R	11.00	12.00	118	71	•
A624120118071R	12.00	12.00	118	71	•

• Disponibile a magazzino / in stock / auf Lager / en stock

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA PER FORATURA E ALESATURA, NEUTRA, SERIE A810

DRILLING AND REAMING DRILL, UNCOATING, TYPE A810



CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di materiali compositi, fibra di carbonio, CFRP, materie plastiche

FEATURES

- Solid carbide
- Suitable to composite materials, carbon fibre, CFRP, plastic materials

Design and technical spec

Helix angle	0°
Point angle	
Tolerance d1	H7 (d2:h6)
Other specifications	Company standard
Finish	Bright finished
Coating	uncoated

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A810200100050	2.00	2.00	100	50	•
A810248100050	2.48	2.48	100	50	•
A810300100050	3.00	3.00	100	50	•
A810317100050	3.17	3.17	100	50	•
A810400100050	4.00	4.00	100	50	•
A810421100050	4.21	4.21	100	50	•
A810482100050	4.82	4.82	100	50	•
A810505100050	5.05	5.05	100	50	•
A810553100050	5.53	5.53	100	50	•
A810600100050	6.00	6.00	100	50	•
A810633100050	6.33	6.33	100	50	•
A810660100050	6.60	6.60	100	50	•
A810700100050	7.00	7.00	100	50	•
A810792100050	7.92	7.92	100	50	•
A810800100050	8.00	8.00	100	50	•
A810863100050	8.63	8.63	100	50	•
A810900100050	9.00	9.00	100	50	•
A810100100050	10.00	10.00	100	50	•
A810120100050	12.00	12.00	100	50	•

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA PER FORATURA E ALESATURA, AlCrN, SERIE A810

DRILLING AND REAMING DRILL, AlCrN, TYPE A810

**CARATTERISTICHE**

- Metallo duro integrale
- Adatta per lavorazione di materiali compositi, fibra di carbonio, CFRP, materie plastiche

FEATURES

- Solid carbide
- Suitable to composite materials, carbon fibre, CFRP, plastic materials

Design and technical spec

Helix angle	0°
Point angle	
Tolerance d1	H7 (d2:h6)
Other specifications	Company standard
Finish	Coating
Coating	AlCrN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A810200100050T	2.00	2.00	100	50	•
A810248100050T	2.48	2.48	100	50	•
A810300100050T	3.00	3.00	100	50	•
A810317100050T	3.17	3.17	100	50	•
A810400100050T	4.00	4.00	100	50	•
A810421100050T	4.21	4.21	100	50	•
A810482100050T	4.82	4.82	100	50	•
A810505100050T	5.05	5.05	100	50	•
A810553100050T	5.53	5.53	100	50	•
A810600100050T	6.00	6.00	100	50	•
A810633100050T	6.33	6.33	100	50	•
A810660100050T	6.60	6.60	100	50	•
A810700100050T	7.00	7.00	100	50	•
A810792100050T	7.92	7.92	100	50	•
A810800100050T	8.00	8.00	100	50	•
A810863100050T	8.63	8.63	100	50	•
A810900100050T	9.00	9.00	100	50	•
A810100100050T	10.00	10.00	100	50	•
A810120100050T	12.00	12.00	100	50	•

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA PER FORATURA E ALESATURA, NEUTRA, SERIE A820

DRILLING AND REAMING DRILL, UNCOATING, TYPE A820



CARATTERISTICHE

- Metallo duro integrale
- Adatta per lavorazione di alluminio, leghe, rame, ottone, bronzo, materiali compositi, fibra di carbonio, CFRP, materie plastiche

FEATURES

- Solid carbide
- Suitable to aluminium, alloys, copper, brass, bronze, plastic materials, composite materials, carbon fibre, CFRP, plastic materials

Design and technical spec

Helix angle	0°
Point angle	
Tolerance d1	H7 (d2:h6)
Other specifications	Company standard
Finish	Bright finished
Coating	uncoated

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A820200100050	2.00	2.00	100	50	•
A820248100050	2.48	2.48	100	50	•
A820300100050	3.00	3.00	100	50	•
A820317100050	3.17	3.17	100	50	•
A820400100050	4.00	4.00	100	50	•
A820421100050	4.21	4.21	100	50	•
A820482100050	4.82	4.82	100	50	•
A820505100050	5.05	5.05	100	50	•
A820553100050	5.53	5.53	100	50	•
A820600100050	6.00	6.00	100	50	•
A820633100050	6.33	6.33	100	50	•
A820660100050	6.60	6.60	100	50	•
A820700100050	7.00	7.00	100	50	•
A820792100050	7.92	7.92	100	50	•
A820800100050	8.00	8.00	100	50	•
A820863100050	8.63	8.63	100	50	•
A820900100050	9.00	9.00	100	50	•
A820100100050	10.00	10.00	100	50	•
A820120100050	12.00	12.00	100	50	•

• Disponibile a magazzino / in stock / auf Lager / en stock

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

PUNTA PER FORATURA E ALESATURA, AICrN, SERIE A820

DRILLING AND REAMING DRILL, AICrN, TYPE A820

**CARATTERISTICHE**

- Metallo duro integrale
- Adatta per lavorazione di alluminio, leghe, rame, ottone, bronzo, materiali compositi, fibra di carbonio, CFRP, materie plastiche

FEATURES

- Solid carbide
- Suitable to aluminium, alloys, copper, brass, bronze, plastic materials, composite materials, carbon fibre, CFRP, plastic materials

Design and technical spec

Helix angle	0°
Point angle	
Tolerance d1	H7 (d2:h6)
Other specifications	Company standard
Finish	Coating
Coating	AICrN

Codice	d1 mm	d2 mm	L mm	l mm	Stock
A820200100050T	2.00	2.00	100	50	•
A820248100050T	2.48	2.48	100	50	•
A820300100050T	3.00	3.00	100	50	•
A820317100050T	3.17	3.17	100	50	•
A820400100050T	4.00	4.00	100	50	•
A820421100050T	4.21	4.21	100	50	•
A820482100050T	4.82	4.82	100	50	•
A820505100050T	5.05	5.05	100	50	•
A820553100050T	5.53	5.53	100	50	•
A820600100050T	6.00	6.00	100	50	•
A820633100050T	6.33	6.33	100	50	•
A820660100050T	6.60	6.60	100	50	•
A820700100050T	7.00	7.00	100	50	•
A820792100050T	7.92	7.92	100	50	•
A820800100050T	8.00	8.00	100	50	•
A820863100050T	8.63	8.63	100	50	•
A820900100050T	9.00	9.00	100	50	•
A820100100050T	10.00	10.00	100	50	•
A820120100050T	12.00	12.00	100	50	•

• **Disponibile a magazzino / in stock / auf Lager / en stock**

○ Consegna: 12 giorni lavorativi / Delivery: 12 working day / Lieferung: von 12 Arbeitstagen / Livraison: 12

DIAMETRI DI FORATURA PRIMA DELLA FILETTATURA

DRILLING DIAMETERS BEFORE THREADING

M		
M	P	Ø
1	0,25	0,75
1,1	0,25	0,85
1,2	0,25	0,95
1,4	0,30	1,10
1,6	0,35	1,25
1,7	0,35	1,30
1,8	0,35	1,45
2	0,40	1,60
2,2	0,45	1,75
2,3	0,40	1,90
2,5	0,45	2,05
2,6	0,45	2,10
3	0,50	2,50
3,5	0,60	2,90
4	0,70	3,30
4,5	0,75	3,70
5	0,80	4,20
6	1,00	5,00
7	1,00	6,00
8	1,25	6,80
9	1,25	7,80
10	1,50	8,50
11	1,50	9,50
12	1,75	10,20
14	2,00	12,00
16	2,00	14,00
18	2,50	15,50
20	2,50	17,50
22	2,50	19,50
24	3,00	21,00
27	3,00	24,00
30	3,50	26,50
33	3,50	29,50
36	4,00	32,00
39	4,00	35,00
42	4,50	37,50
45	4,50	40,50
48	5,00	43,00
52	5,00	47,00
56	5,50	50,50
60	5,50	54,50
64	6,00	58,00
68	6,00	62,00

M		
M	P	Ø
2,5	0,35	2,15
3	0,35	2,65
3,5	0,35	3,15
4	0,35	3,65
4	0,50	3,50
4,5	0,50	4,00
5	0,50	4,50
5,5	0,50	5,00
6	0,50	5,50
6	0,75	5,20
7	0,75	6,20
8	0,50	7,50
8	0,75	7,20
8	1,00	7,00
9	0,75	8,20
9	1,00	8,00
10	0,50	9,50
10	0,75	9,20
10	1,00	9,00
10	1,25	8,80
11	0,75	10,20
11	1,00	10,00
12	0,75	11,25
12	1,00	11,00
12	1,25	10,80
12	1,50	10,50
13	1,00	12,00
13	1,50	11,50

MF		
M	P	Ø
13	1,75	11,25
14	1,00	13,00
14	1,25	12,80
14	1,50	12,50
15	1,00	14,00
15	2,00	13,00
16	1,00	15,00
16	1,50	14,50
17	1,00	16,00
17	1,50	15,50
18	1,00	17,00
18	1,50	16,50
18	2,00	16,00
20	1,00	19,00
20	1,50	18,50
20	2,00	18,00
22	1,00	21,00
22	1,50	20,50
22	2,00	20,00
24	1,00	23,00
24	1,50	22,50
24	2,00	22,00
25	1,00	24,00
25	1,50	23,50
25	2,00	23,00
26	1,00	25,00
26	1,50	24,50
27	1,00	26,00
27	1,50	25,50
27	2,00	25,00
28	1,00	27,00
28	1,50	26,50
28	2,00	26,00
30	1,00	29,00
30	1,50	28,50
30	2,00	28,00
30	3,00	27,00
32	1,50	30,50
32	2,00	30,00
33	1,50	31,50
33	2,00	31,00
33	3,00	30,00
34	1,50	32,50
35	1,50	33,50
36	1,50	34,50
36	2,00	34,00
36	3,00	33,00

38	1,50	36,50
39	1,50	37,50
39	2,00	37,00
39	3,00	36,00
40	1,50	38,50
40	2,00	38,00
40	3,00	37,00
42	1,50	40,50
42	2,00	40,00
42	3,00	39,00
45	1,50	43,50
45	2,00	43,00
45	3,00	42,00
48	1,50	46,50
48	2,00	46,00
48	3,00	45,00
50	1,50	48,50
50	2,00	48,00
50	3,00	47,00
52	1,50	50,50
52	2,00	50,00
52	3,00	49,00

COLD FORMING		
M	P	Ø
3	0,50	2,75
4	0,70	3,65
4,5	0,75	4,15
5	0,80	4,60
5	0,90	4,55
6	1,00	5,50
7	1,00	6,50
8	1,25	7,40
10	1,50	9,30
12	1,75	11,20
14	2,00	13,10
16	2,00	15,10
18	2,50	16,90
20	2,50	18,90
22	2,50	20,90
24	3,00	22,65

W		
M	P	Ø
3/32	48	1,80
1/8	40	2,50
5/32	32	3,10
3/16	24	3,60
7/32	24	4,40
1/4	20	5,10
5/16	18	6,50
3/8	16	7,90
7/16	14	9,30
1/2	12	10,50
9/16	12	12,00
5/8	11	13,50
3/4	10	16,50
7/8	9	19,25
1	8	22,00
11/8	7	24,75
11/4	7	27,75
13/8	6	30,50
11/2	6	33,50
15/8	5	35,50
13/4	5	39,00
17/8	4,5	41,50
2	4,5	44,50
21/4	4	50,00
21/2	4	56,00
23/4	3,5	62,00
3	3,5	68,50

UNIC		
M	P	Ø
N°1	64	1,50
N°2	56	1,80
N°3	48	2,10
N°4	40	2,30
N°5	40	2,60
N°6	32	2,85
N°8	32	3,50
N°10	24	3,90
N°12	24	4,50
1/4	20	5,20
5/16	18	6,60
3/8	16	8,00
7/16	14	9,40
1/2	13	10,75
9/16	12	12,25
5/8	11	13,50
3/4	10	16,50
7/8	9	19,50
1	8	22,25
11/8	7	25,00
11/4	7	28,25
13/8	6	30,75
11/2	6	34,00
13/4	5	39,50
2	4,5	45,25
21/4	4,5	51,20
21/2	4	57,25
23/4	4	63,50
3	4	70,00

UNF-SAE		
M	P	Ø
N°0	80	1,30
N°1	72	1,60
N°2	64	1,90
N°3	56	2,10
N°4	48	2,40
N°5	44	2,70
N°6	40	3,00
N°8	36	3,50
N°10	32	4,10
N°12	28	4,70
1/4	28	5,50
5/16	24	6,90
3/8	24	8,50
7/16	20	9,90
1/2	20	11,50
9/16	18	12,90
5/8	18	14,50
3/4	16	17,50
7/8	14	20,40
1	12	23,30
11/8	12	26,50
11/4	12	29,50
13/8	12	32,70
11/2	12	36,50

GAS (BSP)		
M	P	Ø
1/8	28	8,80
1/4	19	11,80
3/8	19	15,25
1/2	14	19,00
5/8	14	21,00
3/4	14	24,50
7/8	14	28,25
1	11	30,75
11/8	11	35,50
11/4	11	39,50
13/8	11	42,00
11/2	11	45,20
13/4	11	51,40
2	11	57,20
21/4	11	63,30
23/8	11	67,00
21/2	11	72,80
23/4	11	79,10
3	11	85,50

BSPT (RC)		
M	P	Ø
1/16	28	
1/8	28	
1/4	19	
3/8	19	
1/2	14	
3/4	14	
1	11	
11/4	11	
11/2	11	
2	11	

UNEF		
M	P	Ø
N°12	32	4,70
1/4	32	5,55
5/16	32	7,15
3/8	32	8,70
7/16	28	10,20
1/2	28	11,80
9/16	24	13,20
5/8	24	14,80
3/4	20	17,80
7/8	20	20,95
1	20	24,10
11/8	18	27,15
11/4	18	30,35
13/8	18	33,60
11/2	18	36,70

BA		
M	P	Ø
8	2,50x0,43	1,80
7	2,50x0,48	2,00
6	2,80x0,53	2,30
5	3,20x0,59	2,60
4	3,60x0,66	3,00
3	4,10x0,73	3,40
2	4,70x0,81	4,00
1	5,30x0,90	4,50
0	6,00x1,00	5,10
7/8	20	20,95
1	20	24,10
11/8	18	27,15
11/4	18	30,35
13/8	18	33,60
11/2	18	36,70

PG		
M	P	Ø
7	20	11,40
9	18	14,00
11	18	17,25
13,5	18	19,00
16	18	21,25
21	16	26,75
29	16	35,50
36	16	45,50
42	16	52,50
48	16	58,00

NPT		
M	P	Ø
1/16	27	6,20
1/8	27	8,50
1/4	18	11,00
3/8	18	14,50
1/2	14	17,80
3/4	14	23,00
1	11,5	29,00
11/4	11,5	37,50
11/2	11,5	44,00
2	11,5	56,00

CONDIZIONI DI FORATURA

CUTTING CONDITION

				3XD			
				610.63 TiAlN	630.63 I.C. TiAlN		
MATERIAL GROUP	Material examples, new description (old description in brackets) Figures in bold = material no. to DIN EN	Tensile strenght Hardness Mpa (N/mm2)	Vc m/ min	Feed col. no.	Vc m/ min	Feed col. no.	
Common structural steels	1.0035 S185(St33), 1.0486 P275N(StE285), 1.0345 P235GH(H1), 1.0425 P265GH(H2) 1.0050 E295 (St50-2), 1.0070 E360 (St70-2), 1.8937 P500NH (WStE500)	<500 >500-850	130 110	7 6	145 120	7 6	
Free-cutting steels	1.0718 11SMnPb30 (9SMnPb28), 1.0736 11SMn37 (9SMn36) 1.0727 46S20 (45S20), 1.0728 (60S20), 1.0757 46SPb20 (45SPb20)	<850 850-1000	145 110	8 7	170 145	8 8	
Unalloyed heat-treatable steels	1.0402 C22, 1.1178 C30E (Ck30) 1.0503 C45, 1.1191 C45E (Ck45) 1.0601 C60, 1.1221 C60E (Ck60)	<700 700-850 850-1000	120 110 105	7 7 7	130 125 120	8 7 7	
Alloyed heat-treatable steels	1.5131 50 MnSi4, 1.7003 38Cr2, 1.7030 28Cr4 1.5710 36NiCr6, 1.7035 41Cr4, 1.7225 42CrMo4	850-<1000 1000-1200	105 100	7 6	120 105	7 7	
Unalloyed case hard. Steels	1.0301 (C10), 1.1121 C10E (Ck10)	<750	130	8	145	8	
Alloyed case hardened steels	1.7043 38Cr4 1.5752 15NiCr13 (15NiCr13), 1.7131 16MnCr5, 1.7264 20CrMo5	850-<1000 1000-1200	120 85	7 5	120 85	7 5	
Nitriding steels	1.8504 34CrAl6 1.8519 31CrMoV9, 1.8550 34CrAlNi7	>850-<1000 1000-1200	100 90	6 5	110 105	7 5	
Tool steels	1.1750 C75W, 1.2067 102Cr6, 1.2307 29CrMoV9 1.2080 X210Cr12, 1.2083 X42Cr13, 1.2419 105WCr6, 1.2767 X45NiCrMo4	<850-<1000 >1000-1200	65 55	6 5	80 65	6 5	
High speed steels	1.3243 S 6-5-2-5, 1.3343 S 6-5-2, 1.3344 S 6-5-3	>650-1000					
Spring steels	1.5026 55Si7, 1.7176 55Cr3, 1.8159 51CrV4 (51CrV4)	<330 HB	45	3	60	3	
Stainless steels, sulphured austenitic martensitic	1.4005 X12CrS13, 1.4104 X14CrMoS17, 1.4105 X6CrMoS17, 1.4305 X8CrNiS18-9 1.4301 X5CrNi 18-10 (V2A), 1.4541 X6CrNiTi18-10, 1.4571 X6CrNiMoTi 17-12-2 (V4A) 1.4057 X20CrNi 17 2 (X17CrNi16-2), 1.4122 X39CrMo17-1, 1.4521 X2CrMoTi18-2	<850 <850 <850	55 45 45	4 4 3	60 55 45	5 5 5	
Hardened steels	-	<40-48 HRC >48-60 HRC	45 25	3 2	55 35	3 2	
Special alloys	Nimonic, Inconel, Monel, Hastelloy	<1200	25	4	35	4	
Cast iron	0.6010 EN-GJL-100 (GG10), 0.6020 EN-GJL-200(GG20) 0.6025 EN-GJL-250 (GG25), 0.6035 EN-GJL-350(GG35)	<240 HB <300 HB	210 155	8 8	195 160	9 9	
Spheroidal graphite iron and malleable cast iron	0.7050 EN-GJS-500-7(GGG50), 0.8035 EN-GJMW-350-4(GTW35) 0.7070 EN-GJS-700-2(GGG70), 0.8170 EN-GJMB-700-2(GTS70)	<240 HB <300 HB	155 125	7 7	140 130	9 8	
Chilled cast iron	-	<350 HB	35	3	40	3	
Ti and Ti-alloys	3.7024 Ti99,5, 3.7114 TiAl5Sn2,5, 3.7124 TiCu2 3.7154 TiAl6Zr5, 3.7165 TiAl6V4, 3.7184 TiAl4Mo4Sn2,5, - TiAl8Mo1V1	<850- >850-1200	40 35	4 3	45 40	4 3	
Aluminium and Al-alloys	3.0255 Al99,5, 3.2315 AlMgSi1, 3.3515 AlMg1	<400	260	9	310	9	
Al wrought alloys	3.0615 AlMgSiPb, 3.1325 AlCuMg1, 3.3245 AlMg3Si, 3.4365 AlZnMgCu1,5	<450	260	9	310	9	
All cast alloys < 10 % Siù > 10 % Si	3.2131 G-AlSi5Cu1, 3.2153 G-AlSi7Cu3, 3.2573 G-AlSi9 3.2581 G-AlSi12, 3.2583 G-AlSi12Cu, - G-Alsi12CuNiMg	<600 <600	220 180	9 8	260 220	9 9	
Magnesium alloys	3.5200 MgMn2, 3.5812.05 G-MgAl8Zn1, 3.5612.05 G-MgAl6Zn1	<450	260	8	280	8	
Copper, low-alloyed	2.0070 SE-Cu, 2.1020 CuSn6, 2.1096 G-CuSn5ZnPb	<400	105	7	125	7	
Brass, short-chipping long-chipping	2.0380 CuZn39Pb2, 2.0401 CuZn39Pb3, 2.0410 CuZn43Pb2 2.0250 CuZn20, 2.0280 CuZn33, 2.0332 CuZn37Pb0,5	<600 <600	270 180	8 7	325 220	8 7	
Bronze, short-chipping	2.1090 CuSn7ZnPb, 2.1170 CuPb5Sn5, 2.1176 CuPb10Sn 2.0790 CuNi18Zn19Pb	<600 >600-850	105 85	6 6	125 105	7 6	
Bronze, long-chipping	2.0916 CuAl5, 2.0960 CuAl9Mn, 2.1050 CuSn10 2.0980 CuAl11Ni, 2.1247 CuBe2	<850 >850-1000	80 60	5 5	90 80	6 6	

Feed column no.									
Drill ø mm	1	2	3	4	5	6	7	8	9
f (mm/rev.)									
0:50	0.004	0.006	0.007	0.008	0.010	0.012	0.014	0.016	0.019
1:00	0.006	0.008	0.012	0.014	0.016	0.018	0.020	0.023	0.025
2:00	0.020	0.025	0.032	0.040	0.050	0.063	0.080	0.100	0.125
2:50	0.025	0.032	0.040	0.050	0.063	0.080	0.100	0.125	0.160
3:15	0.032	0.040	0.050	0.063	0.080	0.100	0.125	0.160	0.160
4:00	0.040	0.050	0.063	0.080	0.100	0.125	0.160	0.200	0.200
5:00	0.040	0.050	0.063	0.080	0.100	0.125	0.160	0.200	0.250
6:30	0.050	0.063	0.080	0.100	0.125	0.160	0.200	0.250	0.315
8:00	0.063	0.080	0.100	0.125	0.160	0.200	0.250	0.315	0.315
10:00	0.080	0.100	0.125	0.160	0.200	0.250	0.315	0.400	0.400
12:50	0.080	0.100	0.125	0.160	0.200	0.250	0.315	0.400	0.500

5XD				7XD				12XD				20XD				30XD				MICRO Drill				Gun Drill 10XD				3XD				5XD			
620.63 TiAIN		640.63 I.C. TiAIN		650.63 I.C. TiAIN		660.63 I.C. TiAIN		680.63 I.C. TiAIN		690.63 I.C. TiAIN		691.63 TiAIN		692.63 I.C.		693.63		694.63																	
Vc m/min	Feed col. no.	Vc m/min	Feed col. no.	Vc m/min	Feed col. no.	Vc m/min	Feed col. no.	Vc m/min	Feed col. no.	Vc m/min	Feed col. no.	Vc m/min	Feed col. no.	Vc m/min	Feed col. no.	Vc m/min	Feed col. no.	Vc m/min	Feed col. no.	Vc m/min	Feed col. no.	Vc m/min	Feed col. no.	Vc m/min	Feed col. no.	Vc m/min	Feed col. no.								
130	7	130	7	130	7	130	7	130	7	130	7	130	7					7		130	7														
110	6	110	6	110	6	110	6	110	6	110	6	110	6					6		110	6														
145	8	145	8	145	8	145	8	145	8	145	8	145	8					8		145	8														
110	7	110	7	110	7	110	7	110	7	110	7	110	7					7		110	7														
120	7	120	7	120	7	120	7	120	7	120	7	120	7					7		120	7														
110	7	110	7	110	7	110	7	110	7	110	7	110	7					7		110	7														
105	7	105	7	105	7	105	7	105	7	105	7	105	7					7		105	7														
105	7	105	7	105	7	105	7	105	7	105	7	105	7					7		105	7														
100	6	100	6	100	6	100	6	100	6	100	6	100	6					6		100	6														
130	8	130	8	130	8	130	8	130	8	130	8	130	8					8		130	8														
120	7	120	7	120	7	120	7	120	7	120	7	120	7					7		120	7														
85	5	85	5	85	5	85	5	85	5	85	5	85	5					5		85	5														
100	6	100	6	100	6	100	6	100	6	100	6	100	6					6		100	6														
90	5	90	5	90	5	90	5	90	5	90	5	90	5					5		90	5														
65	6	65	6	65	6	65	6	65	6	65	6	65	6					6		65	6														
55	5	55	5	55	5	55	5	55	5	55	5	55	5					5		55	5														
				45	3	45	3	45	3	45	3																								
45	3	45	3	45	3	45	3	45	3	45	3									45	3														
55	4	55	4	55	4	55	4	55	4	55	4							55	4	55	4														
45	4	45	4	45	4	45	4	45	4	45	4							45	4	45	4														
45	3	45	3	45	3	45	3	45	3	45	3							45	3	45	3														
45	3	45	3	45	3	45	3	45	3	45	3							3		45	3														
25	2	25	2	25	2	25	2	25	2	25	2							2		25	2														
25	4	25	4	25	4	25	4	25	4	25	4	25	4	25	4					25	4														
195	8	195	8	195	8	195	8	195	8	195	8	195	8	195	8	195	8			195	8														
155	8	155	8	155	8	155	8	155	8	155	8	155	8	155	8	155	8			155	8														
145	7	145	7	145	7	145	7	145	7	145	7	145	7	145	7	145	7			145	7														
125	7	125	7	125	7	125	7	125	7	125	7	125	7	125	7	125	7			125	7														
35	3	35	3	35	3											35	3																		
40	4	40	4	40	4											40	4	40	4	40	4														
35	3	35	3	35	3											35	3	35	3	35	3														
260	9	260	9	260	9											260	9			260	9														
260	9	260	9	260	9											260	9			260	9														
220	8	220	8	220	8	220	8									220	8			220	8														
170	8	170	8	170	8	170	8									170	8			170	8														
260	8	260	8	260	8													8		260	8														
105	7	105	7	105	7	105	7	105	7	105	7							7		105	7														
270	8	270	8	270	8	270	8	270	8	270	8					270	8			270	8														
180	7	180	7	180	7	180	7	180	7	180	7					180	7			180	7														
105	6	105	6	105	6											105	6			105	6														
85	6	85	6	85	6											85	6			85	6														
80	5	80	5	80	5													5		80	5														
60	5	60	5	60	5													5		60	5														

Feed column no.									
Drill ø mm	1	2	3	4	5	6	7	8	9
f (mm/rev.)									
16:00	0.100	0.125	0.160	0.200	0.250	0.315	0.400	0.500	0.630
20:00	0.125	0.160	0.200	0.250	0.315	0.400	0.500	0.630	0.800
25:00	0.160	0.200	0.250	0.315	0.400	0.500	0.630	0.800	1.000
31:50	0.160	0.200	0.250	0.315	0.400	0.500	0.630	0.800	1.000
40:00	0.200	0.250	0.315	0.400	0.500	0.630	0.800	1.000	1.250
50:00	0.250	0.310	0.400	0.500	0.630	0.800	1.000	1.250	1.600
63:00	0.315	0.400	0.500	0.630	0.800	1.000	1.250	1.600	2.000
80:00	0.400	0.500	0.630	0.800	1.000	1.250	1.600	2.000	

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info@absutensili.com

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SERBIA

A.B.S TOOLS SRB D.O.O.
Karadjordjeva 101
15306 m. Prnjavor Sabac - RS
Tel.00381[0]15283325 -
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Vuka Karadzica Dijelovi, br. 35,
Dvorovi – 76311 Bijeljina - BH
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A.B.S ALATI D.O.O.
UL STJEPANA RADICA, 14
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www.abstools.hr
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ABS Szerszámok HU k.f.t
Zsolnay V. u. 47/C
7628 Pécs - HU
Tel. 0036 72955328
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www.abstools.hu
info@abstools.hu

SLOVENIA

A.B.S UTENSILI s.r.l
Mednarodni Prehod,1
5290 Šempeter Pri Gorici - SLO
Tel.+386 (0) 69784280
www.abssorodja.si
info@absutensili.com