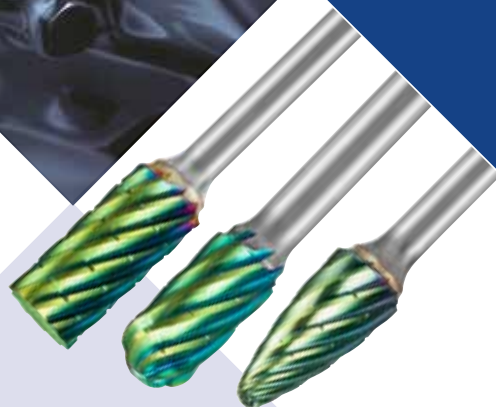




sgspro



11/2022






FRAISES ROTATIVES FRACTIONNELLES
FRACTIONAL BURRS



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MASCOUTECH

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	Coupe / Cut	Utilisation / Applications	Matériau / Material
	Double coupe - Coupe 6 (D/C) Double cut - Cut 6 (D/C)	Enlèvement efficace de la matière - ébavurage, finition, nettoyage. Efficient stock removal - deburring, finishing, cleaning.	Métaux ferreux, métaux non ferreux Ferrous metals, non-ferrous metals
	Non ferreux - Coupe 1 (NF) Non-ferrous - Cut 1 (NF)	Enlèvement important de la matière - ébavurage, fraisage, nettoyage, usinage. Heavy stock removal - deburring, milling, cleaning, machining.	Métaux non ferreux, alliages d'aluminium, plastiques Non-ferrous metal: aluminium alloys, plastics
	Coupe omega (DDC) Omega cut - (DDC)	Enlèvement important de la matière - ébavurage, fraisage. Heavy stock removal - deburring, milling.	Acier non trempé < 45 HRc, acier trempé > 45 HRc, acier inoxydable Métaux résistants - hautes températures: Nickel, Cobalt, Titane Métaux légers non ferreux: laiton, cuivre, zinc, trempé > 45 HRc, fonte Non hardened steel < 45 HRc, hardened steel > 45 HRc, stainless steel High temperature - resistant metals: Nickel, Cobalt, Titanium Non-ferrous light metals: brass, copper, zinc., hardened > 45 HRc, cast iron
	Coupe grossière - Coupe 2 (C/C) Coarse cut - Cut 2 (C/C)	Enlèvement moyen de la matière - ébavurage, fraisage, nettoyage, usinage. Medium stock removal -deburring, milling, cleaning, finishing.	Métaux légers non ferreux : laiton, cuivre, zinc, plastiques, caoutchouc dur Non-ferrous light metals: brass, copper, zinc, plastics, hard rubber
	Coupe simple - Coupe 3 (S/C) Single cut - Cut 3 (S/C)	Enlèvement moyen de la matière - ébavurage, fraisage, nettoyage, usinage. Medium stock removal -deburring, milling, cleaning, finishing.	Acier non trempé < 45 HRc, acier trempé > 45 HRc, acier inoxydable Métaux résistants - hautes températures: Nickel, Cobalt, Titane Métaux légers non ferreux: laiton, cuivre, zinc, trempé > 45 HRc, fonte Non hardened steel < 45 HRc, hardened steel > 45 HRc, stainless steel High temperature - resistant metals: Nickel, Cobalt, Titanium Non-ferrous light metals: brass, copper, zinc., hardened > 45 HRc, cast iron
	Coupe pour l'acier inoxydable Inox cut	Enlèvement important de la matière - ébavurage, fraisage. Heavy stock removal - deburring, milling.	Usinage de l'acier inoxydable < 25 HRc, acier inoxydable austénitique < 25 HRc, acier inoxydable ferritique, austénitique et martensitique < 32 HRc Free machining stainless steel < 25 HRc, austenitic stainless steel < 25 HRc, ferritic, Austenitic & Martensitic stainless steel < 32 HRc
	Coupe pour l'acier Steel cut	Enlèvement important de la matière - ébavurage, fraisage. Heavy stock removal - deburring, milling.	Acier non trempé ou traité < 38 HRc, aciers de construction, aciers de structure, aciers au carbone et aciers à outils, acier trempé ou traité > 38 HRc Non-hardened or treated steel < 38 HRc, construction steels; structural steels; carbon steels & tool steels, hardened or treated steel > 38 HRc
	NG6 «ACCELERATOR» - Double coupe NG6 ACCELERATOR - Double cut	Enlèvement important (double) de la matière Heavy stock removal (double) stock removal	Acier, acier inoxydable, acier doux, fonte Steel, stainless steel, mild steel, cast iron

Et plus! / And more!

NOUS AVONS LA FRAISE ROTATIVE AU CARBURE ADAPTÉE À VOS BESOINS!
WE HAVE THE CARBIDE BURR FOR YOUR NEEDS!

La procédure à suivre pour utiliser le guide de vitesses ci-dessous:

1. Sélectionner l'application et le groupe de matériaux
2. Identifier le style de coupe approprié. Veuillez vous référer à la page précédente pour faire correspondre votre application et le style de coupe approprié.
3. Identifier la vitesse de coupe recommandée.
4. Sélectionner le diamètre de la fraise.
5. Respecter la vitesse de rotation maximale.

The way to use the speed guide below:

1. Select application and material group
2. Identify the appropriate cut style. Please refer to previous page to match your application and the appropriate cutting style.
3. Identify recommended cutting speed.
4. Select burr diameter.
5. Follow maximum rotational speed.

Groupe de matériaux / Material group	Styles de coupe / Cut styles									
Matériaux super alliages Super alloy materials	3-5-6-4-AS									
Acier trempé >45HRC Hardened steel >45HRC	Omega - Acier/Steel - 3SP - 6 - BM									
Acier non trempé <45HRC Non hardened steel <45HRC	Omega - Acier/Steel - 3SP - 6 - BM									
Matériaux résistant aux hautes températures High temperature-resistant materials	Omega - Inox - 3 - 3SP - 6									
Métaux non ferreux Non-ferrous metals	1									
Métaux légers non ferreux Non-ferrous light metals	1 2-3SP-6									
Plastiques, caoutchouc dur Plastics, hard rubber	1-2									
Fibre de verre Fiberglass	4 (FGR)									

Vitesses de coupe recommandées / Recommended cutting speed										
Métrique / Metric (m/min)	420	480	540	600	660	720	780	840	900	
Fractionnel / Fractional (SFM)	1400	1600	1800	2000	2200	2400	2600	2800	3000	

Diamètre de la fraise / Burr diameter		Vitesse de rotation maximale (tr/min) / Maximum rotational speed (RPM)									
Fractionnel / Fractional	Métrique / Metric										
< 1/8"	< 3 mm	45,000	53,000	60,000	66,000	73,000	79,000	86,000	92,500	100,000	
3/16"	5 mm	35,000	40,000	45,000	50,000	55,000	60,000	65,000	70,000	75,000	
1/4"	6 mm	26,000	30,000	34,000	37,500	41,500	45,000	49,000	52,500	55,000	
5/16"	8 mm	21,000	24,000	27,000	30,000	33,000	36,000	39,000	42,000	45,000	
3/8"	10 mm	17,500	20,000	22,500	25,000	27,500	30,000	32,500	35,000	37,500	
1/2"	12 mm	13,000	15,000	17,000	19,000	20,500	22,500	24,500	26,000	28,000	
5/8"	15 mm	10,500	12,000	13,500	15,000	16,500	18,000	19,500	21,000	22,500	
3/4"	20 mm	9,000	10,000	11,000	12,500	14,000	15,000	16,250	17,500	19,000	
1"	25 mm	6,500	7,500	8,500	9,500	10,500	11,000	12,000	13,000	14,000	

Les vitesses recommandées sont basées sur une longueur de tige standard de 1-3/4" et un dépassement maximal de 3/8". Les vitesses maximales recommandées pour les tiges de longueur supérieure sont de 15 000 tr/min. Veuillez noter que toutes les coupes disponibles ne sont pas affichées dans ce catalogue de produits. Veuillez nous contacter (ventes@mascoustech.com) pour discuter de vos besoins spécifiques.

Recommended speeds are based on standard shank length of 1-3/4" max. overhang of 3/8". Maximum recommended speeds for extended length shanks is 15,000 RPM. Please note that all cuts available are not displayed in this product catalog. Please contact us (sales@mascoustech.com) to discuss your specific requirements.

Les fraises rotatives en carbure de tungstène **SGSPRO** sont fabriquées dans le respect des normes les plus strictes. Notre gamme complète de produits offre un large éventail de solutions fiables et éprouvées sur le marché pour chaque application. Notre savoir-faire et notre expertise nous permettent d'améliorer continuellement notre offre afin de fournir une qualité exceptionnelle et d'offrir d'excellentes performances dans un large éventail d'industries, en optimisant les processus en termes d'efficacité économique, de sécurité et d'optimisation des processus.

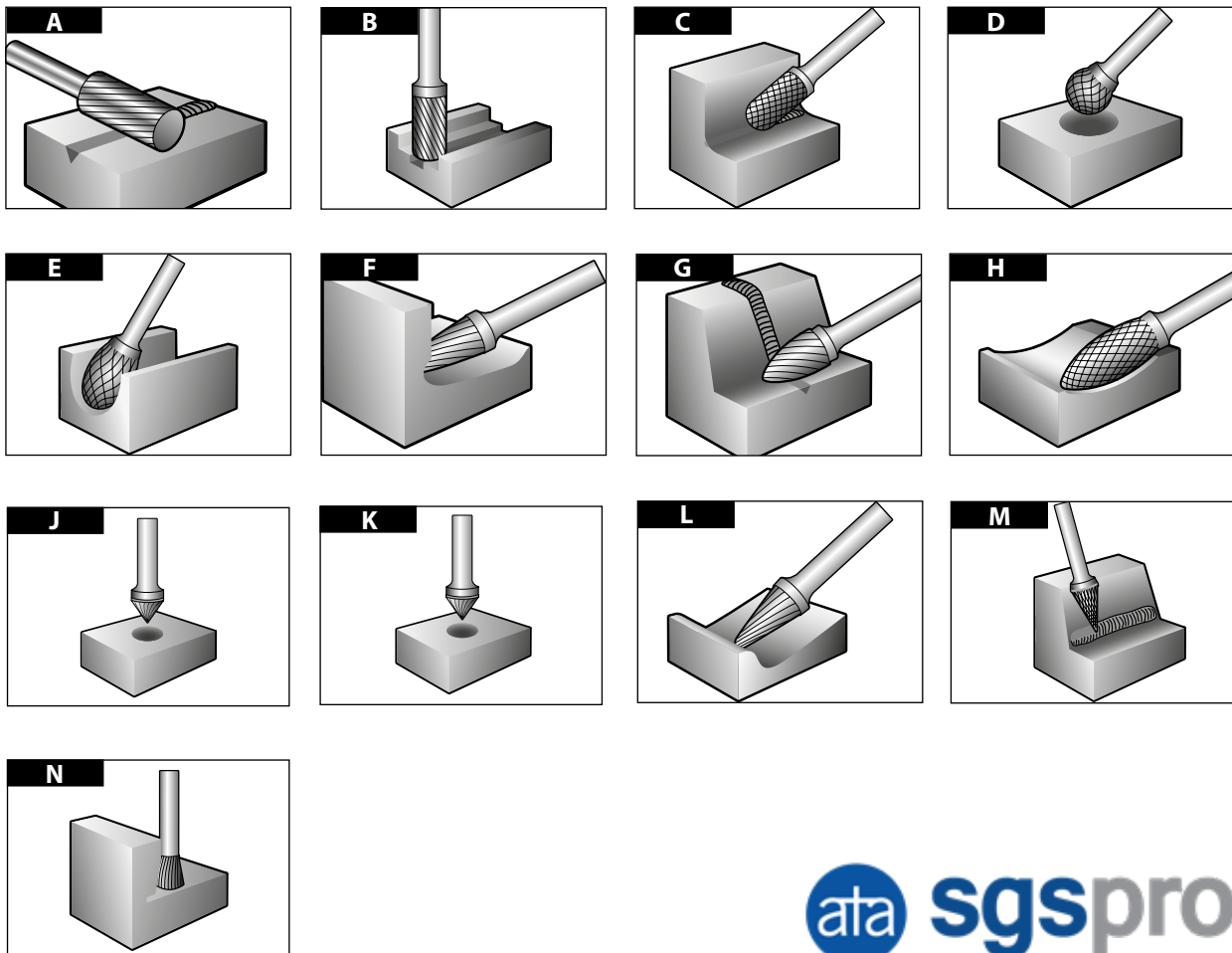
Utilisation:

- Utiliser un lubrifiant ou de la cire (**voir nos produits Mascou**) pour éviter de charger la cannelure dans les matériaux mous.
- L'utilisation de la vitesse recommandée permet d'éviter une usure prématurée et/ou des taux d'enlèvement de matière insuffisants.
- Maintenir la concentricité de la meule pour optimiser les taux d'enlèvement de matière et prolonger la durée de vie de la fraise.
- Réduire les cannelures et augmenter la vitesse dans les matériaux mous. Augmenter les cannelures et réduire la vitesse dans les matériaux durs.
- Les styles de coupe transversale (6, 3SP, 4) améliorent généralement l'enlèvement de matière, le contrôle et réduisent la taille des copeaux.

SGSPRO tungsten carbide burrs are manufactured in compliance with the highest standards. Our comprehensive product portfolio offers a broad range of reliable and market-proven solutions for every application. Our know-how and expertise allow us to continuously improve our offering to provide outstanding quality and deliver excellent performance across a wide range of industries, optimizing processes in regards to economic efficiency, safety and process optimization.

Application:

- Use lubricant or wax (**see our Mascou product**) to prevent flute loading in soft materials.
- Using the recommended speed prevents premature wear and/or insufficient material removal rates.
- Maintain grinder concentricity to optimize material removal rates and extend burr life.
- Reduce flutes and increase speed in softer materials. Increase flutes and reduce speed in hardened materials.
- Cross cut styles (6, 3SP, 4) generally improve stock removal, control, and reduce chip size.



Cette gamme exclusive de fraises rotatives multi-applications couvrira presque tous vos travaux généraux d'enlèvement de métal. Avec une conception exclusive à courbe inversée, cette gamme innovante de fraises offre une polyvalence qui permet d'utiliser ces fraises dans un large éventail de travaux et réduit le besoin de changer de consommables et d'outils, ce qui vous fait gagner du temps et de l'argent.

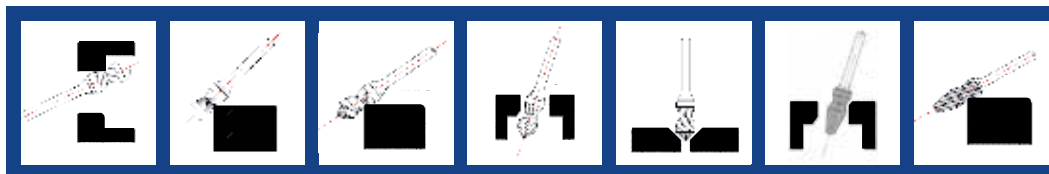
- Courbe inversée unique - Idéale pour créer un rayon lisse sur les angles aigus.
- Système de guidage unique - Facilité de contrôle sur les bords tranchants.
- Géométrie spéciale des dents - Coupe douce sur toutes les faces et enlèvement rapide de matière.
- Usinage CNC - Qualité constante élevée.
- Fabriquées en carbure de tungstène fritté de haute qualité, elles garantissent des performances et une durabilité élevées.
- Fabriquées selon des normes strictes de contrôle de la qualité.
- Polyvalent - Peuvent être utilisées sur une grande variété de matériaux, tel que: le titane, le bronze, l'acier inoxydable, la fonte, le laiton, etc.

This exclusive range of multi-application burrs will cover almost all your general metal removal work. With an exclusive inverted curve design, this innovative range of burrs provides a versatility that makes these burrs suitable for use across a wide range of jobs and reduces the need for consumable and tool changes, saving you time as well as money.

- Unique inverted curve - Ideal for creating a smooth radius on sharp corners.
- Unique guide system - Ease of control on sharp edges.
- Special tooth geometry - Smooth cutting action using all faces and rapid material removal.
- CNC machined - High consistent quality.
- Manufactured from high quality sintered tungsten carbide guaranteed high performance and durability.
- Manufactured to strict quality control standards.
- Versatile - Can be used on a wide variety of materials such as: titanium, bronze, stainless steel, cast iron, brass, etc.



No. art. Art. no.	Description Description	Diamètre de coupe Cutting diameter	Longueur de coupe Length of cut	Diamètre de la tige Shank diameter	Longueur totale Overall length	Angle Angle
11755	SA-5RA D/C	1/2"	1"	1/4"	2-3/4"	-
11756	SB-5RA D/C	1/2"	1"	1/4"	2-3/4"	-
11757	SB-5RA C	1/2"	1"	1/4"	2-3/4"	-
11758	SC-5RA C	1/2"	1"	1/4"	2-3/4"	-
11759	SC-5RA D/C	1/2"	1"	1/4"	2-3/4"	-
11760	SF-5RA D/C	1/2"	1-1/4"	1/4"	3-1/4"	-
11761	SG-5RA D/C	1/2"	1-1/4"	1/4"	3-1/4"	-
11762	SJ-5RA D/C	1/2"	1-1/4"	1/4"	3"	-
11763	SK-5RA D/C	1/2"	1-1/4"	1/4"	3"	-
11764	SL-5RA D/C	1/2"	1-1/4"	1/4"	3-1/4"	14°



ENSEMBLES DE FRAISES ROTATIVES RAYON / RADIUS BURR KITS

No. art. Art. no.	11755	SA-5RA D/C
18225	11756	SB-5RA D/C
	11757	SB-5RA C
	11758	SC-5RA C
	11759	SC-5RA D/C
	11760	SF-5RA D/C
	11761	SG-5RA D/C
	11762	SJ-5RA D/C
	11763	SK-5RA D/C
	11764	SL-5RA D/C



No. art. Art. no.	11756	SB-5RA D/C
18220	11758	SC-5RA C
	11760	SF-5RA D/C
	11763	SK-5RA D/C
	15865	SK-6CO C



La gamme de fraises rotatives combi a été développée pour réduire les temps d'arrêt et couvrir les processus multi-applications pour l'enlèvement des métaux. Ces nouvelles formes exclusives couvriront vos travaux d'ébavurage, d'ébarbage et de finition en une seule solution simple. Cette gamme est idéale pour les pièces complexes où différentes formes sont nécessaires. La fraise combi maximisera votre productivité!

- Réduction des temps d'arrêt pour l'utilisateur.
- Géométrie spéciale des dents fabriquée à l'aide de machines CNC de dernières générations.
- Le carbure de tungstène fritté de la plus haute qualité est utilisé pour assurer une performance constante.
- Une fraise polyvalente à utiliser sur une large gamme de matériaux et de procédés.
- 14 fraises combinées pour répondre à toutes vos applications complexes!

The combi burr line has been developed to reduce downtime and cover multi-application processes for metal removal. These exclusive new shapes will cover your deburring, edging and blending work in one simple burr solution. This range is ideal for complex parts where different shapes are required. The combi burr will maximize your productivity!

- Reduced downtime for the end user.
- Special tooth geometry manufactured using the latest CNC machines.
- The highest quality sintered tungsten carbide is used to ensure consistent performance.
- A versatile burr to be used on a wide range of materials and processes.
- 14 combination shaped burrs to suit all your complex applications!



No. art. Art. no.	Description Description	Diamètre de coupe Cutting diameter	Longueur de coupe Length of cut	Diamètre de la tige Shank diameter	Longueur totale Overall length	Angle Angle
15855	SA-5CO D/C	1/2"	1"	1/4"	2-3/4"	
15856	SB-5CO D/C	1/2"	1"	1/4"	2-3/4"	
15857	SD-5CO C	1/2"	3/4"	1/4"	2-1/2"	
15858	SD-5CO D/C	1/2"	3/4"	1/4"	2-1/2"	
15859	SF-5CO D/C	1/2"	1-1/4"	1/4"	3"	
15860	SG-5CO D/C	1/2"	1-1/4"	1/4"	3"	
15861	SJA-5CO D/C	1/2"	1"	1/4"	2-3/4"	60°
15862	SJN-5CO D/C	1/2"	7/8"	1/4"	2-3/4"	60°
15863	SKA-5CO D/C	1/2"	1"	1/4"	2-3/4"	90°
15864	SNA-5CO D/C	1/2"	3/4"	1/4"	2-1/2"	14°
15865	SK-6CO C	1/2"	5/8"	1/4"	2-3/8"	
15866	SL-5CO D/C	1/2"	1-1/4"	1/4"	3"	
15867	SM-5CO D/C	1/2"	1-1/4"	1/4"	3-1/4"	
15868	SN-5CO D/C	1/2"	1"	1/4"	2-3/4"	



ENSEMBLES DE FRAISES ROTATIVES COMBI / COMBI BURR KITS

No. art. Art. no.	15856	SB-5CO D/C
18235	15858	SD-5CO D/C
	15859	SF-5CO D/C
	15860	SG-5CO D/C
	15862	SJN-5CO D/C
	15863	SKA-5CO D/C
	15864	SNA-5CO D/C
	15866	SL-5CO D/C
	15867	SM-5CO D/C
	15868	SN-5CO D/C



No. art. Art. no.	15858	SD-5CO D/C
18230	15861	SJA-5CO D/C
	15864	SNA-5CO D/C
	15865	SK-6CO C
	15868	SN-5CO D/C



La gamme de fraises à rayon d'angle a été spécialement développée pour répondre aux normes de fabrication les plus strictes de l'industrie aérospatiale. La conception du rayon au sommet du cylindre permet de prolonger la durée de vie de l'outil. Cette conception unique avec sa double coupe améliorera le contrôle de l'opérateur, réduira la taille des copeaux et évitera d'endommager des pièces coûteuses.

- Rayon d'angle au sommet du cylindre.
- Offre une meilleure résistance de la cannelure à la tête de la fraise.
- Évite de creuser dans la pièce au point d'intersection.
- Produit un rayon d'angle sur la pièce à travailler.
- Réduit l'écaillage des cannelures aux points d'intersection.

The corner radius burr range has been specially developed to meet the highest manufacturing standards of the aerospace industry. The radius design at the top of the cylinder provides extended tool life. This unique design with its double cut will improve operator control, reduce the size of chips and prevent damage to expensive parts.

- Corner radius at the top of the cylinder.
- Offers improved flute strength at the head of the burr.
- Prevents digging into the work piece at the intersecting point.
- Produces a corner radius on the work piece.
- Reduces flute chipping at the intersection points.



No. art. Art. no.	Description Description	Diamètre de coupe Cutting diameter	Longueur de coupe Length of cut	Diamètre de la tige Shank diameter	Longueur totale Overall length
10155	SA-43CR D/C	1/8"	1/8"	9/16"	1-1/4"
10156	SA-1CR D/C	1/4"	1/4"	3/4"	2"
10157	SA-2CR D/C	5/16"	1/4"	3/4"	2-1/2"
10158	SA-3CR D/C	3/8"	1/4"	3/4"	2-1/2"
10159	SA-5CR D/C	1/2"	1/4"	1"	2-3/4"
10160	SA-6CR D/C	5/8"	1/4"	1"	2-3/4"



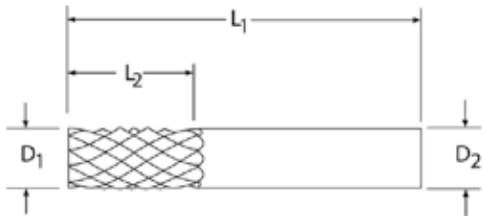
ENSEMBLE DE FRAISES ROTATIVES À RAYON D'ANGLE / CORNER RADIUS BURR KIT

No. art. Art. no. 18240	10155	SA-43CR D/C
	10156	SA-1CR D/C
	10157	SA-2CR D/C
	10158	SA-3CR D/C
	10159	SA-5CR D/C
	10160	SA-6CR D/C



- Style de coupe spécial.
- Idéale pour le travail d'ébauche et de contournement des composites.
- Peut être utilisée avec des outils manuels ou des machines CNC.
- Peut être utilisée sur divers matériaux, des grands panneaux en fibre de verre aux petites pièces en composite.

- Special cut style.
- Best for roughing and contouring composite.
- Can be used with hand-held tools or CNC machines.
- Can be used on various materials, from large fiberglass panels to small parts made of composite.



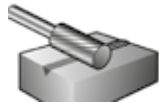
Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Sans coupe en bout No end cut	Avec coupe en bout With end cut	Fraise en bout Endmill	Pointe de perçage Drill point
FGR-1	1/16"	3/16"	1/8"	1-1/2"	73001	73015	73030	73045
FGR 1-1	3/32"	3/8"	1/8"	1-1/2"	73002	73016	73031	73046
FGR-2	1/8"	1/2"	1/8"	1-1/2"	73003	73017	73032	73047
FGR-3	3/16"	5/8"	3/16"	2"	73004	73018	73033	73048
FGR-4	3/16"	5/8"	1/4"	2"	73005	73019	73034	73049
FGR-5	1/4"	3/4"	1/4"	2"	73006	73020	73035	73050
FGR-6	1/4"	3/4"	1/4"	2-1/2"	73007	73021	73036	73051
FGR 6-1	1/4"	1"	1/4"	3"	73008	73022	73037	73052
FGR-7	5/16"	1"	5/16"	2-1/2"	73009	73023	73038	73053
FGR-8	3/8"	1"	3/8"	2-1/2"	73010	73024	73039	73054
FGR-9	1/2"	1"	1/2"	3"	73011	73025	73040	73055

Sans coupe en bout / No end cut	Pour les applications de profilés / For profile applications
Avec coupe en bout / With end cut	Pour le profilage et le rainurage / For profiling and slotting application
Fraise en bout / Endmill	Pour le forage, le rainurage et le profilage / For plunging, slotting and profiling applications
Pointe de perçage / Drill point	Pour le forage, utiliser avant le début de l'opération / For plunging into application prior to starting routing operation

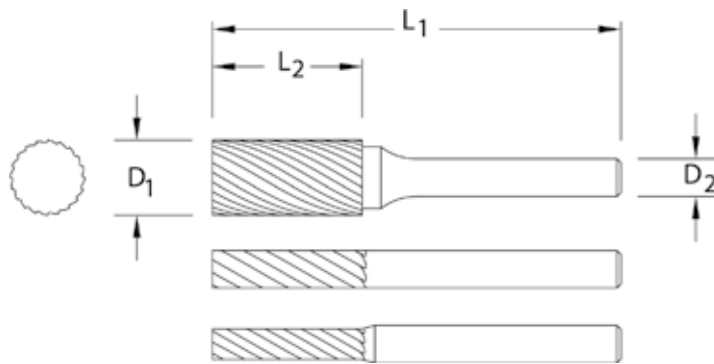


- Les fraises sont recommandées pour une utilisation sur les matériaux phénoliques, la fibre de verre et les matériaux durs non métalliques.
- Pour obtenir les meilleurs résultats, les fraises pour fibre de verre doivent être montées de manière rigide dans des mandrins à pinces précis.

- The routers are recommended for use on phenolics, fiberglass and hard non metallic materials.
- For the best results, fiberglass routers should be rigidly mounted in accurate collet chucks.



SA

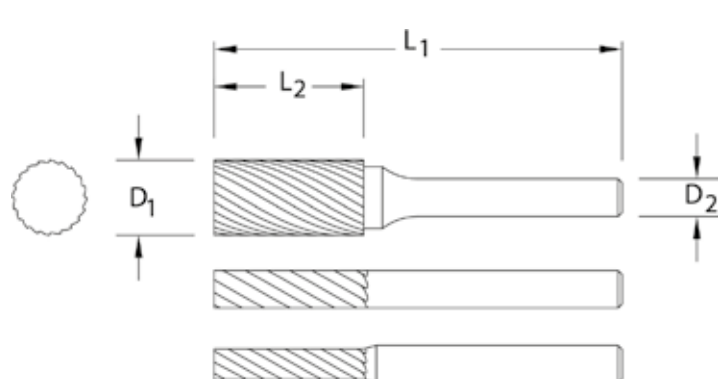


(SA) FORME CYLINDRIQUE SANS COUPE EN BOUT / CYLINDER NO END CUT SHAPE

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3	Coupe non ferreuse Non-Ferrous cut
SA-41	1/16"	1/4"	1/8"	1-1/2"	10603	10600	-
SA-41L2	1/16"	1/4"	1/8"	2"	17103	17100	-
SA-41L3	1/16"	1/4"	1/8"	3"	17128	17125	-
SA-61	1/16"	1/4"	3/32"	1-1/4"	10753	10750	-
SA-63	3/32"	3/8"	3/32"	1-1/4"	10778	10775	-
SA-42	3/32"	7/16"	1/8"	1-1/2"	10628	10625	-
SA-42L2	3/32"	7/16"	1/8"	2"	17153	17150	-
SA-42L3	3/32"	7/16"	1/8"	3"	17178	17175	-
SA-11	1/8"	1/2"	1/4"	2-1/4"	10403	10400	-
SA-43	1/8"	9/16"	1/8"	1-1/2"	10653	10650	-
SA-43L2	1/8"	9/16"	1/8"	2"	17203	17200	-
SA-43L3	1/8"	9/16"	1/8"	3"	17228	17225	-
SA-12	1/8"	5/8"	1/4"	2-3/8"	10428	10425	-
SA-52	5/32"	1/2"	1/8"	1-1/2"	10703	10700	-
SA-13	5/32"	5/8"	1/4"	2"	10453	10450	-
SA-81	3/16"	1/2"	3/16"	2"	10803	10800	-
SA-53	3/16"	1/2"	1/8"	1-1/2"	10728	10725	-
SA-14	3/16"	5/8"	1/4"	2"	10478	10475	-
SA-51	1/4"	1/2"	1/8"	2"	10678	10675	-
SA-1	1/4"	5/8"	1/4"	2"	10003	10000	-
SA-1L	1/4"	1"	1/4"	2"	10028	10025	-
SA-1L6	1/4"	5/8"	1/4"	6-1/2"	16178	16175	-



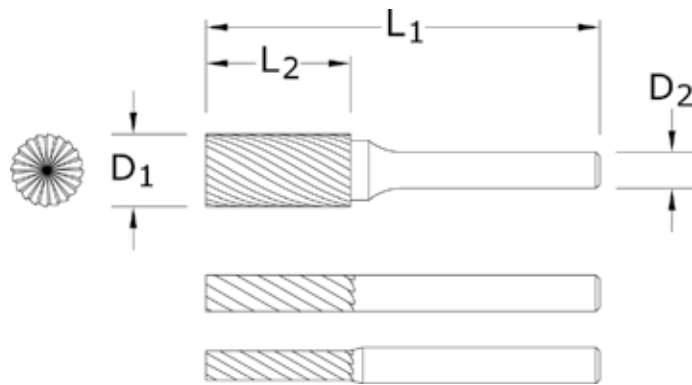
SA



(SA) FORME CYLINDRIQUE SANS COUPE EN BOUT / CYLINDER NO END CUT SHAPE

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3	Coupe non ferreuse Non-Ferrous cut
SA-1NF	1/4"	3/4"	1/4"	2"	-	-	19000
SA-2	5/16"	3/4"	1/4"	2-1/2"	10053	10050	-
SA-3	3/8"	3/4"	1/4"	2-1/2"	10078	10075	-
SA-3L	3/8"	1"	1/4"	2-3/4"	10103	10100	-
SA-3L6	3/8"	3/4"	1/4"	6-3/4"	16203	16200	-
SA-3NF	3/8"	3/4"	1/4"	2-1/2"	-	-	19002
SA-3X	3/8"	1-1/2"	1/4"	3-1/4"	10128	10125	-
SA-4	7/16"	1"	1/4"	2-3/4"	10153	10150	-
SA-5	1/2"	1"	1/4"	2-3/4"	10178	10175	-
SA-5L6	1/2"	1"	1/4"	7"	16228	16225	-
SA-5NF	1/2"	1"	1/4"	2-3/4"	-	-	19004
*SA-6	5/8"	1"	1/4"	2-3/4"	10203	10200	-
*SA-6NF	5/8"	1"	1/4"	2-3/4"	-	-	19006
*SA-15	3/4"	1/2"	1/4"	2-1/4"	10503	10500	-
*SA-16	3/4"	3/4"	1/4"	2-1/2"	10553	10550	-
*SA-7	3/4"	1"	1/4"	2-3/4"	10253	10250	-
SA-7NF	3/4"	1"	1/4"	2-3/4"	-	-	19008
SA-7NF3/8	3/4"	1"	3/8"	3"	-	-	19010
*SA-8	7/8"	1"	1/4"	2-3/4"	10303	10300	-
*SA-9	1"	1"	1/4"	2-3/4"	10353	10350	-

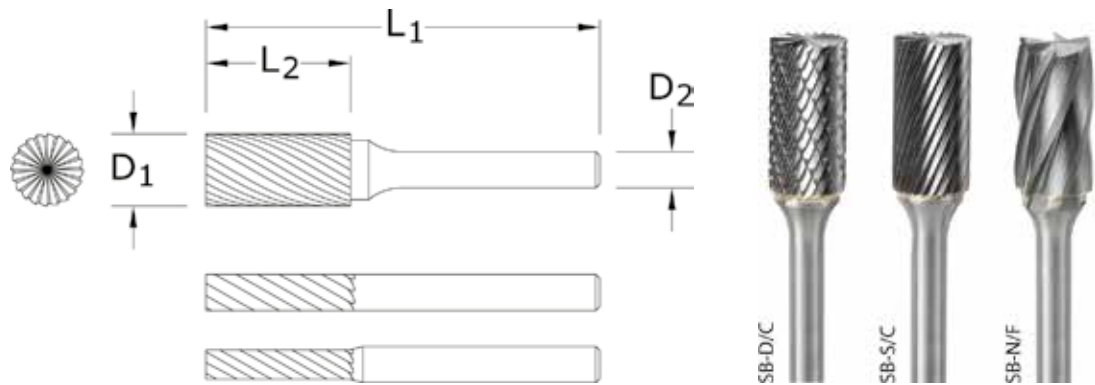
*Tige 3/8" optionnelle / *3/8" shank optional


SB

(SB) FORME CYLINDRIQUE AVEC COUPE EN BOUT / CYLINDER SHAPE WITH END CUT

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3	Coupe non ferreuse Non-Ferrous cut
SB-41	1/16"	1/4"	1/8"	1-1/2"	11453	11450	-
SB-41L2	1/16"	1/4"	1/8"	2"	17253	17250	-
SB-41L3	1/16"	1/4"	1/8"	3"	17278	17275	-
SB-42	3/32"	7/16"	1/8"	1-1/2"	11478	11475	-
SB-42L2	3/32"	7/16"	1/8"	2"	17303	17300	-
SB-42L3	3/32"	7/16"	1/8"	1-1/2"	17328	17325	-
SB-ECO	1/8"	-	1/8"	1-1/2"	-	11525	-
SB-11	1/8"	1/2"	1/4"	2-1/4"	11253	11250	-
SB-12	1/8"	5/8"	1/4"	2-3/8"	11278	11275	-
SB-43	1/8"	9/16"	1/8"	1-1/2"	11503	11500	-
SB-43L2	1/8"	9/16"	1/8"	2"	17353	17350	-
SB-43L3	1/8"	9/16"	1/8"	3"	17378	17375	-
SB-13	5/32"	5/8"	1/4"	2"	11303	11300	-
SB-14	3/16"	5/8"	1/4"	2"	10328	10825	-
SB-51	1/4"	3/16"	1/8"	1-3/4"	11550	11553	-
SB-1	1/4"	5/8"	1/4"	2"	10853	10850	-
SB-1L	1/4"	1"	1/4"	2"	10878	10875	-
SB-1NF	1/4"	3/4"	1/4"	2"	-	-	19012



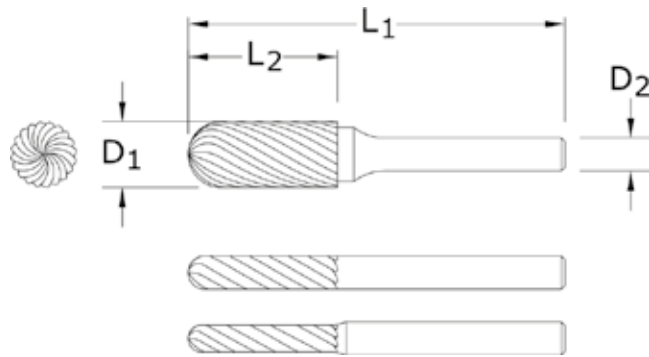
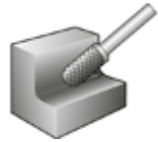
SB



(SB) FORME CYLINDRIQUE AVEC COUPE EN BOUT / CYLINDER SHAPE WITH END CUT

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3	Coupe non ferreuse Non-Ferrous cut
SB-2	5/16"	3/4"	1/4"	2-1/2"	10903	10900	-
SB-3	3/8"	3/4"	1/4"	2-1/2"	10928	10925	-
SB-3L	3/8"	1"	1/4"	2-3/4"	10953	10950	-
SB-3NF	3/8"	3/4"	1/4"	2-1/2"	-	-	19014
SB-3X	3/8"	1-1/2"	1/4"	3-1/4"	10978	10975	-
SB-4	7/16"	1"	1/4"	2-3/4"	11003	11000	-
SB-5	1/2"	1"	1/4"	2-3/4"	11028	11025	-
SB-5NF	1/2"	1"	1/4"	2-3/4"	-	-	19016
*SB-6	5/8"	1"	1/4"	2-3/4"	11053	11050	-
*SB-6NF	5/8"	1"	1/4"	2-3/4"	-	-	19018
*SB-15	3/4"	1/2"	1/4"	2-1/4"	11353	11350	-
*SB-16	3/4"	3/4"	1/4"	2-1/2"	11403	11400	-
*SB-7	3/4"	1"	1/4"	2-3/4"	11103	11100	-
SB-7NF	3/4"	1"	1/4"	2-3/4"	-	-	19020
SB-7NF3/8	3/4"	1"	3/8"	3"	-	-	19022
*SB-8	7/8"	1"	1/4"	2-3/4"	11153	11150	-
*SB-9	1"	1"	1/4"	2-3/4"	11203	11200	-

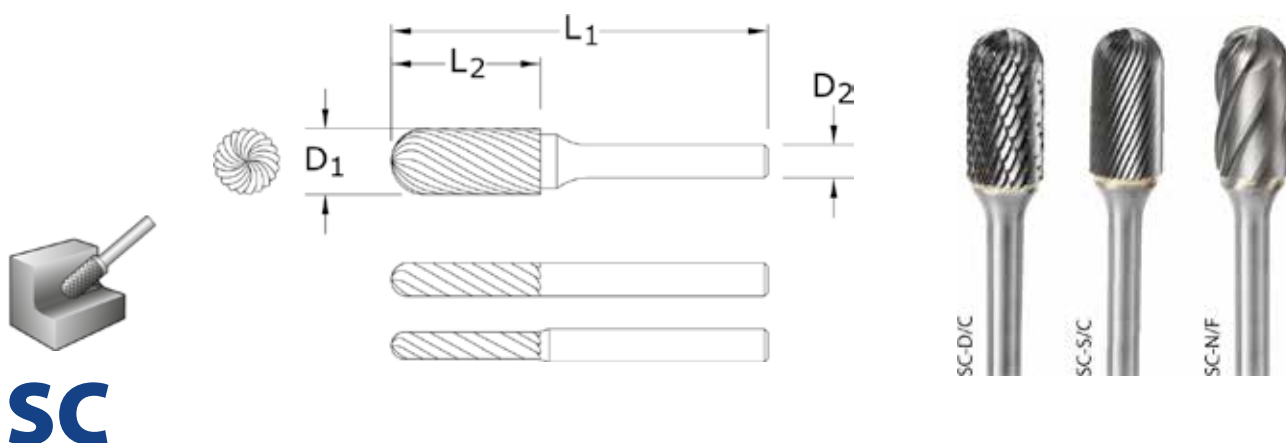
*Tige 3/8" optionnelle / *3/8" shank optional



SC

(SC) FORME CYLINDRIQUE BOUT ROND / CYLINDER SHAPE BALL NOSED

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3	Coupe non ferreuse Non-Ferrous cut
SC-61	3/32"	3/8"	3/32"	1-1/4"	12378	12375	-
SC-41	3/32"	7/16"	1/8"	1-1/2"	12253	12250	-
SC-11	1/8"	1/2"	1/4"	2-1/4"	12053	12050	-
SC-42	1/8"	9/16"	1/8"	1-1/2"	12278	12275	-
SC-42L2	1/8"	9/16"	1/8"	2"	17453	17450	-
SC-42L3	1/8"	9/16"	1/8"	3"	17478	17475	-
SC-12	1/8"	5/8"	1/4"	2-3/8"	12078	12075	-
SC-52	5/32"	1/2"	1/8"	1-1/2"	12328	12325	-
SC-13	5/32"	5/8"	1/4"	2"	12103	12100	-
SC-81	3/16"	1/2"	3/16"	2"	12403	12400	-
SC-53	3/16"	1/2"	1/8"	1-1/2"	12353	12350	-
SC-14	3/16"	5/8"	1/4"	2"	12128	12125	-
SC-51	1/4"	1/2"	1/8"	2"	12303	12300	-
SC-1	1/4"	5/8"	1/4"	2"	11703	11700	-
SC-1L	1/4"	1"	1/4"	2"	11728	11725	-
SC-1L6	1/4"	5/8"	1/4"	6-1/2"	16328	16325	-
SC-1NF	1/4"	3/4"	1/4"	2"	-	-	19024
SC-2	5/16"	3/4"	1/4"	2-1/2"	11753	11750	-



SC

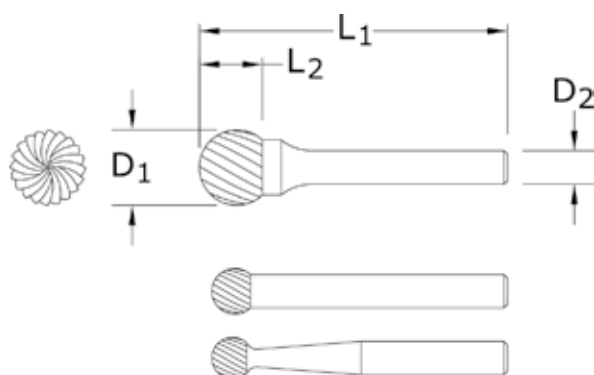
(SC) FORME CYLINDRIQUE BOUT ROND / CYLINDER SHAPE BALL NOSED

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3	Coupe non ferreuse Non-Ferrous cut
SC-3	3/8"	3/4"	1/4"	2-1/2"	11778	11775	-
SC-3L	3/8"	1"	1/4"	2-3/4"	11803	11800	-
SC-3L6	3/8"	3/4"	1/4"	6-3/4"	16353	16350	-
SC-3NF	3/8"	3/4"	1/4"	2-1/2"	-	-	19026
SC-3X	3/8"	1-1/2"	1/4"	3-1/4"	11828	11825	-
SC-4	7/16"	1"	1/4"	2-3/4"	11853	11850	-
SC-5	1/2"	1"	1/4"	2-3/4"	11878	11875	-
SC-5L6	1/2"	1"	1/4"	7"	16378	16375	-
SC-5NF	1/2"	1"	1/4"	2-3/4"	-	-	19028
*SC-6	5/8"	1"	1/4"	2-3/4"	11903	11900	-
*SC-6NF	5/8"	1"	1/4"	2-3/4"	-	-	19030
*SC-15	3/4"	1/2"	1/4"	2-1/4"	12153	12150	-
*SC-16	3/4"	3/4"	1/4"	2-1/2"	12203	12200	-
*SC-7	3/4"	1"	1/4"	2-3/4"	11953	11950	-
SC-7NF	3/4"	1"	1/4"	2-3/4"	-	-	19032
SC-7NF3/8	3/4"	1"	3/8"	3"	-	-	19034
*SC-9	1"	1"	1/4"	2-3/4"	12003	12000	-

*Tige 3/8" optionnelle / *3/8" shank optional



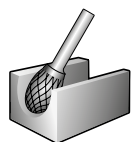
SD



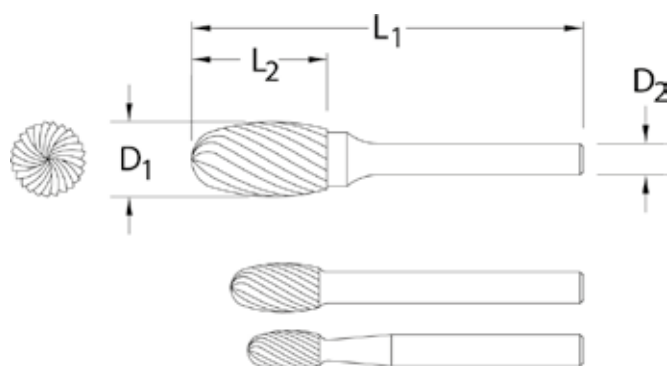
(SD) FORME SPHÉRIQUE (BOULE) / BALL SHAPE

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3	Coupe non ferreuse Non-Ferrous cut
SD-41	3/32"	3/32"	1/8"	1-1/2"	12778	12775	-
SD-61	3/32"	3/32"	3/32"	1-1/4"	12878	12875	-
SD-11	1/8"	3/32"	1/4"	2"	12728	12725	-
SD-42	1/8"	1/8"	1/8"	1-1/2"	12803	12800	-
SD-42L2	1/8"	1/8"	1/8"	2"	17553	17550	-
SD-42L3	1/8"	1/8"	1/8"	3"	17578	17575	-
SD-52	5/32"	5/32"	1/8"	1-1/2"	12840	12837	-
SD-14	3/16"	1/8"	1/4"	2"	12753	12750	-
SD-81	3/16"	5/32"	3/16"	2"	12903	12900	-
SD-53	3/16"	5/32"	1/8"	1-1/2"	12853	12850	-
SD-1	1/4"	7/32"	1/4"	2"	12453	12450	-
SD-1L6	1/4"	7/32"	1/4"	6-3/16"	16403	16400	-
SD-1NF	1/4"	7/32"	1/4"	2"	-	-	19036
SD-51	1/4"	7/32"	1/8"	1-3/4"	12828	12825	-
SD-2	5/16"	1/4"	1/4"	2"	12478	12475	-
SD-3	3/8"	5/16"	1/4"	2-1/16"	12503	12500	-
SD-3L6	3/8"	5/16"	1/4"	6-5/16"	16428	16425	-
SD-3NF	3/8"	5/16"	1/4"	2-1/16"	-	-	19038
SD-4	7/16"	3/8"	1/4"	2-1/8"	12528	12525	-
SD-5	1/2"	7/16"	1/4"	2-1/8"	12553	12550	-
SD-5L6	1/2"	7/16"	1/4"	6-7/16"	16453	16450	-
SD-5NF	1/2"	7/16"	1/4"	2-1/8"	-	-	19040
*SD-6	5/8"	9/16"	1/4"	2-1/4"	12578	12575	-
*SD-6NF	5/8"	9/16"	1/4"	2-1/4"	-	-	19042
*SD-7	3/4"	11/16"	1/4"	2-1/2"	12628	12625	-
SD-7NF	3/4"	11/16"	1/4"	2-1/2"	-	-	19044
SD-7NF3/8	3/4"	11/16"	3/8"	2-11/16"	-	-	19046
*SD-9	1"	15/16"	1/4"	2-7/8"	12678	12675	-

*Tige 3/8" optionnelle / *3/8" shank optional



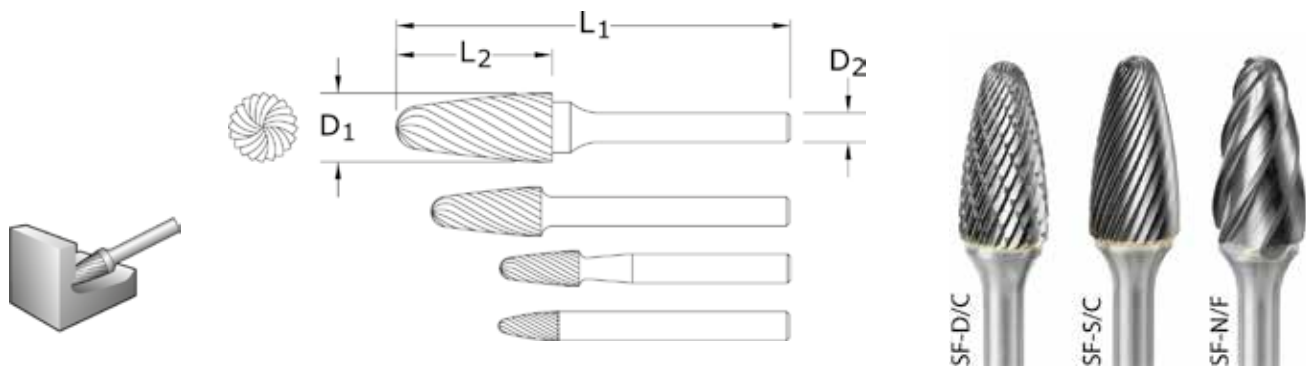
SE



(SE) FORME OVALE / OVAL SHAPE

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3	Coupe non ferreuse Non-Ferrous cut
SE-61	3/32"	1/8"	3/32"	1-1/4"	13228	13225	-
SE-41	1/8"	7/32"	1/8"	1-1/2"	13153	13150	-
SE-41L2	1/8"	7/32"	1/8"	2"	17603	17600	-
SE-41L3	1/8"	7/32"	1/8"	3"	17628	17625	-
SE-81	3/16"	9/32"	3/16"	2"	13253	13250	-
SE-53	3/16"	9/32"	1/8"	1-1/2"	13203	13200	-
SE-11	3/16"	5/16"	1/4"	2"	13128	13125	-
SE-1	1/4"	3/8"	1/4"	2"	12953	12950	-
SE-1L6	1/4"	3/8"	1/4"	6-3/8"	16478	16475	-
SE-51	1/4"	3/8"	1/8"	1-7/8"	13178	13175	-
SE-3	3/8"	5/8"	1/4"	2-3/8"	12978	12975	-
SE-3L6	3/8"	5/8"	1/4"	6-5/8"	16503	16500	-
SE-3NF	3/8"	5/8"	1/4"	2-3/8"	-	-	19048
SE-5	1/2"	7/8"	1/4"	2-5/8"	13003	13000	-
SE-5L6	1/2"	7/8"	1/4"	6-7/8"	16528	16525	-
SE-5NF	1/2"	7/8"	1/4"	2-5/8"	-	-	19050
*SE-6	5/8"	1"	1/4"	2-3/4"	13028	13025	-
*SE-6NF	5/8"	1"	1/4"	2-3/4"	-	-	19052
*SE-7	3/4"	1"	1/4"	2-3/4"	13078	13075	-
SE-7NF	3/4"	1"	1/4"	2-3/4"	-	-	19054
SE-7NF3/8	3/4"	1"	3/8"	2-3/4"	-	-	19056

*Tige 3/8" optionnelle / *3/8" shank optional

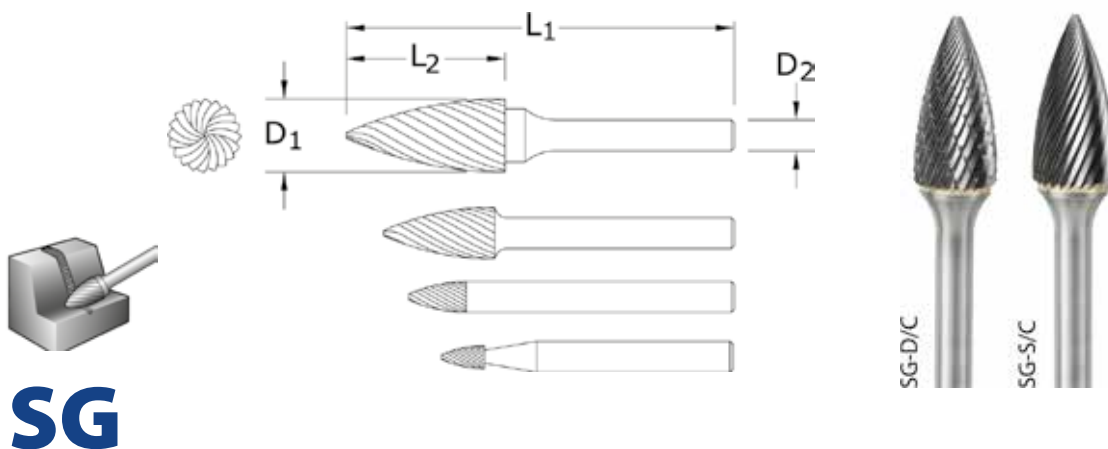


SF

(SF) FORME OGIVE BOUT ROND / BALL NOSED TREE SHAPE

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3	Coupe non ferreuse Non-Ferrous cut
SF-61	3/32"	1/4"	3/32"	1-1/4"	13778	13775	-
SF-41	1/8"	1/4"	1/8"	1-1/2"	13678	13675	-
SF-11	1/8"	1/2"	1/4"	2-1/4"	13503	13500	-
SF-42	1/8"	1/2"	1/8"	1-1/2"	13703	13700	-
SF-42L2	1/8"	1/2"	1/8"	2"	17653	17650	-
SF-42L3	1/8"	1/2"	1/8"	3"	17678	17675	-
SF-81	3/16"	1/2"	3/16"	2"	13803	13800	-
SF-53	3/16"	1/2"	1/8"	1-1/2"	13753	13750	-
SF-51	1/4"	1/2"	1/8"	2"	13728	13725	-
SF-1	1/4"	5/8"	1/4"	2"	13303	13300	-
SF-1L6	1/4"	5/8"	1/4"	6-1/2"	16553	16550	-
SF-1NF	1/4"	3/4"	1/4"	2"	-	-	19058
SF-3	3/8"	3/4"	1/4"	2-1/2"	13328	13325	-
SF-3L6	3/8"	3/4"	1/4"	6-3/4"	16578	16575	-
SF-3NF	3/8"	3/4"	1/4"	2-1/2"	-	-	19060
SF-4	7/16"	1"	1/4"	2-3/4"	13353	13350	-
SF-13	1/2"	3/4"	1/4"	2-1/2"	13528	13525	-
SF-5	1/2"	1"	1/4"	2-3/4"	13378	13375	-
SF-5L6	1/2"	1"	1/4"	7"	16603	16600	-
SF-5NF	1/2"	1"	1/4"	2-3/4"	-	-	19062
*SF-6	5/8"	1"	1/4"	2-3/4"	13403	13400	-
*SF-6NF	5/8"	1"	1/4"	2-3/4"	-	-	19064
*SF-7	3/4"	1"	1/4"	2-3/4"	13453	13450	-
*SF-14	3/4"	1-1/4"	1/4"	3"	13578	13575	-
SF-14NF	3/4"	1-1/4"	1/4"	3"	-	-	19066
SF-14NF3/8	3/4"	1-1/4"	3/8"	3-1/4"	-	-	19068
*SF-15	3/4"	1-1/4"	1/4"	3-1/4"	13628	13625	-

*Tige 3/8" optionnelle / *3/8" shank optional

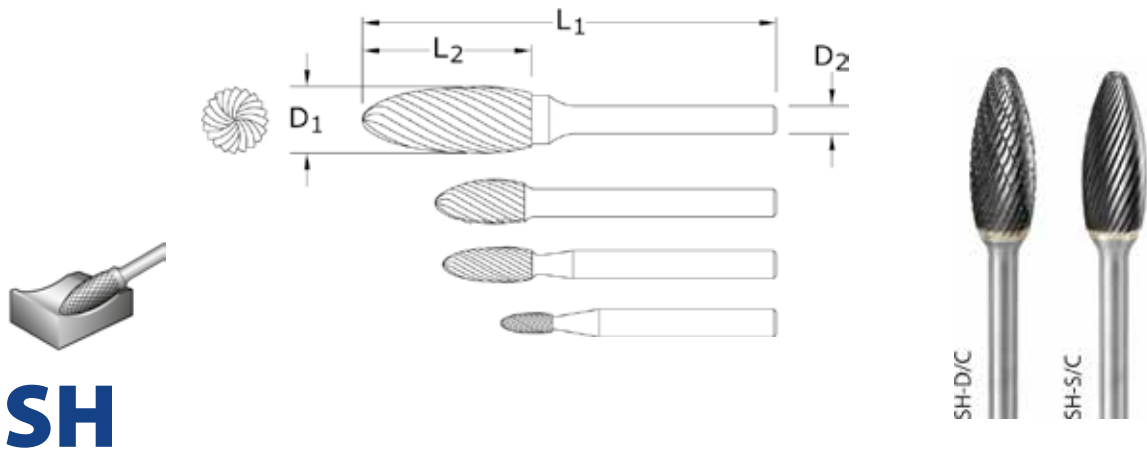


SG

(SG) FORME OGIVE POINTUE / TREE SHAPE POINTED END

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3
SG-61	3/32"	1/4"	3/32"	1-1/4"	14303	14300
SG-41	1/8"	1/4"	1/8"	1-1/2"	14153	14150
SG-42	1/8"	5/16"	1/8"	1-1/2"	14178	14175
SG-43	1/8"	3/8"	1/8"	1-1/2"	14203	14200
SG-44	1/8"	1/2"	1/8"	1-1/2"	14228	14225
SG-44L2	1/8"	1/2"	1/8"	2"	17853	17850
SG-44L3	1/8"	1/2"	1/8"	3"	17878	17875
SG-81	3/16"	1/2"	3/16"	2"	14328	14325
SG-53	3/16"	1/2"	1/8"	1-1/2"	14278	14275
SG-1	1/4"	5/8"	1/4"	2"	13853	13850
SG-1L6	1/4"	1/2"	1/4"	6-1/2"	16628	16625
SG-51	1/4"	1/2"	1/8"	2"	14253	14250
SG-2	5/16"	3/4"	1/4"	2-1/2"	13878	13875
SG-3	3/8"	3/4"	1/4"	2-1/2"	13903	13900
SG-3L6	3/8"	3/4"	1/4"	6-3/4"	16653	16650
SG-13	1/2"	3/4"	1/4"	2-1/2"	14053	14050
SG-5	1/2"	1"	1/4"	2-3/4"	13928	13925
SG-5L6	1/2"	1"	1/4"	7"	16678	16675
*SG-6	5/8"	1"	1/4"	2-3/4"	13953	13950
*SG-7	3/4"	1"	1/4"	2-3/4"	14003	14000
*SG-15	3/4"	1-1/2"	1/4"	3-1/4"	14103	14100

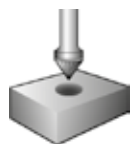
*Tige 3/8" optionnelle / *3/8" shank optional



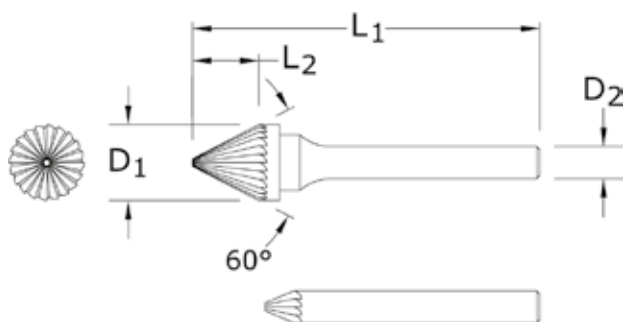
SH

(SH) FORME FLAMME / FLAME SHAPE						
Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3
SH-41	1/8"	1/4"	1/8"	1-1/2"	14553	14550
SH-41L2	1/8"	1/4"	1/8"	2"	17903	17900
SH-41L3	1/8"	1/4"	1/8"	3"	17928	17925
SH-53	3/16"	3/8"	1/8"	1-1/2"	14603	14600
SH-1	1/4"	5/8"	1/4"	2"	14378	14375
SH-2	5/16"	3/4"	1/4"	2-1/2"	14403	14400
SH-2L6	5/16"	3/4"	1/4"	6-3/4"	16703	16700
SH-5	1/2"	1-1/4"	1/4"	3"	14428	14425
SH-5L6	1/2"	1-1/4"	1/4"	7-1/4"	16728	16725
*SH-6	5/8"	1-7/16"	1/4"	3-1/8"	14453	14450
*SH-7	3/4"	1-5/8"	1/4"	3-3/8"	14503	14500

*Tige 3/8" optionnelle / *3/8" shank optional



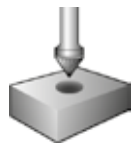
SJ



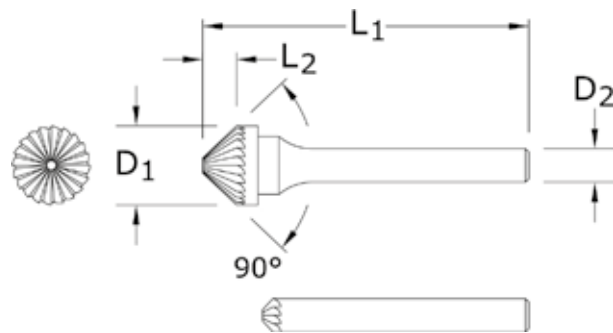
(SJ) FORME CONIQUE 60° / 60° COUNTERSINK

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3
SJ-42	1/8"	3/32"	1/8"	1-1/2"	14903	14900
SJ-1	1/4"	3/16"	1/4"	2"	14678	14675
SJ-3	3/8"	5/16"	1/4"	2-1/8"	14703	14700
SJ-5	1/2"	7/16"	1/4"	2-5/16"	14728	14725
*SJ-6	5/8"	9/16"	1/4"	2-3/8"	14753	14750
*SJ-7	3/4"	11/16"	1/4"	2-9/16"	14803	14800
*SJ-9	1"	15/16"	1/4"	2-5/8"	14853	14850

*Tige 3/8" optionnelle / *3/8" shank optional



SK



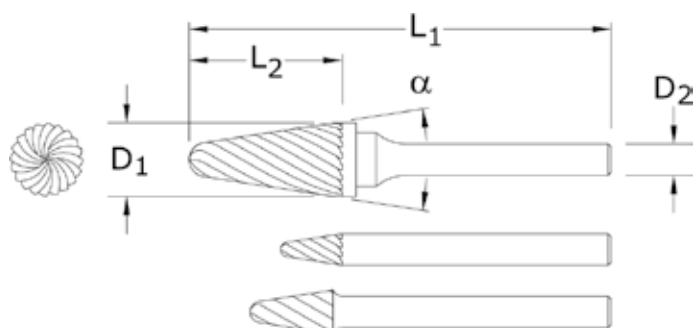
(SK) FORME CONIQUE 90° / 90° COUNTERSINK

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3
SK-42	1/8"	1/16"	1/8"	1-1/2"	15153	15150
SK-1	1/4"	1/8"	1/4"	2"	14928	14925
SK-3	3/8"	3/16"	1/4"	2-1/16"	14953	14950
SK-5	1/2"	1/4"	1/4"	2-1/8"	14978	14975
*SK-6	5/8"	5/16"	1/4"	2-1/4"	15003	15000
*SK-7	3/4"	3/8"	1/4"	2-5/16"	15053	15050
*SK-9	1"	1/2"	1/4"	2-3/8"	15103	15100

*Tige 3/8" optionnelle / *3/8" shank optional



SL



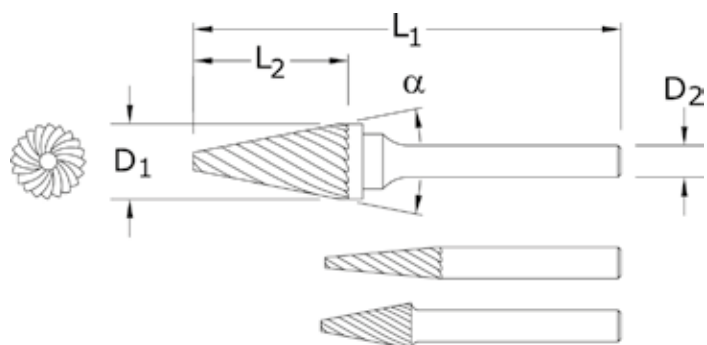
(SL) FORME CONIQUE AVEC BOUT RAYON / RADIUS END TAPER SHAPE

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Angle Angle	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3	Coupe non ferreuse Non-Ferrous cut
SL-41	1/8"	3/8"	1/8"	1-1/2"	8°	15403	15400	-
SL-42	1/8"	1/2"	1/8"	1-1/2"	8°	15428	15425	-
SL-42L2	1/8"	1/2"	1/8"	2"	8°	17953	17950	-
SL-42L3	1/8"	1/2"	1/8"	3"	8°	17978	17975	-
SL-81	3/16"	7/16"	3/16"	2"	14°	15478	15475	-
SL-53	3/16"	1/2"	1/8"	1-1/2"	14°	15453	15450	-
SL-1	1/4"	5/8"	1/4"	2"	14°	15178	15175	-
SL-1L6	1/4"	5/8"	1/4"	6-3/4"	14°	16753	16750	-
SL-2	5/16"	7/8"	1/4"	2-3/4"	14°	15203	15200	-
SL-3	3/8"	1-1/16"	1/4"	3"	14°	15228	15225	-
SL-3L6	3/8"	1-1/16"	1/4"	7-1/16"	14°	16778	16775	-
SL-3NF	3/8"	1-1/16"	1/4"	3"	14°	-	-	19070
SL-4	1/2"	1-1/8"	1/4"	3"	14°	15253	15250	-
SL-4L6	1/2"	1-1/8"	1/4"	7-1/16"	14°	16803	16800	-
SL-4NF	1/2"	1-1/8"	1/4"	3"	14°	-	-	19072
SL-5	5/8"	1-3/16"	1/4"	3-1/16"	14°	15278	15275	-
*SL-5NF	5/8"	1-3/16"	1/4"	3"	14°	-	-	19074
*SL-6	5/8"	1-5/16"	1/4"	3-3/16"	14°	15303	15300	-
*SL-6NF	5/8"	1-5/16"	1/4"	3-3/16"	14°	-	-	19076
*SL-7	3/4"	1-1/2"	1/4"	3-3/8"	14°	15353	15350	-
SL-7NF	3/4"	1-1/2"	1/4"	3-3/8"	14°	-	-	19078
SL-7NF3/8	3/4"	1-1/2"	3/8"	3-5/8"	14°	-	-	19080

*Tige 3/8" optionnelle / *3/8" shank optional



SM



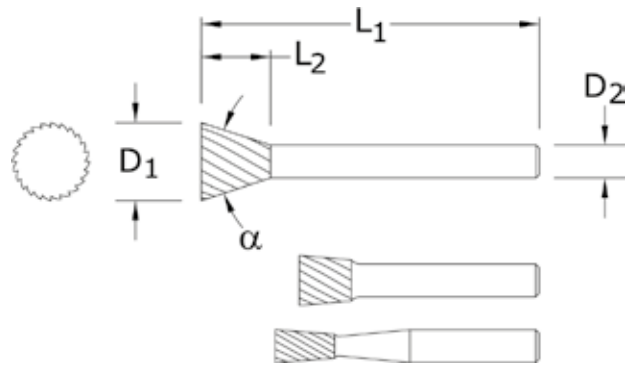
(SM) FORME CONIQUE / CONE SHAPE

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Angle Angle	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3
SM-61	3/32"	1/4"	3/32"	1-1/4"	10°	15803	15800
SM-41	1/8"	11/32"	1/8"	1-1/2"	12°	15678	15675
SM-42	1/8"	7/16"	1/8"	1-1/2"	14°	15703	15700
SM-42L2	1/8"	7/16"	1/8"	2"	14°	18053	18050
SM-42L3	1/8"	7/16"	1/8"	3"	14°	18078	18075
SM-43	1/8"	5/8"	1/8"	1-1/2"	7°	15728	15725
SM-53	3/16"	1/2"	1/8"	1-1/2"	16°	15778	15775
SM-1	1/4"	1/2"	1/4"	2"	22°	15503	15500
SM-51	1/4"	1/2"	1/8"	2-3/32"	22°	15753	15750
SM-2	1/4"	3/4"	1/4"	2"	14°	15528	15525
SM-3	1/4"	1"	1/4"	2"	10°	15553	15550
SM-4	3/8"	5/8"	1/4"	2-1/2"	28°	15578	15575
SM-5	1/2"	7/8"	1/4"	2-3/4"	28°	15603	15600
*SM-6	5/8"	1"	1/4"	2-7/8"	31°	15628	15625

*Tige 3/8" optionnelle / *3/8" shank optional



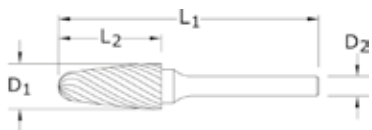
SN



(SN) FORME CONIQUE INVERSÉE / INVERTED CONE SHAPE

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Angle Angle	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3
SN-41	3/32"	1/8"	1/8"	1-1/2"	10°	16028	16025
SN-61	3/32"	1/8"	3/32"	1-1/4"	10°	16128	16125
SN-42	1/8"	3/16"	1/8"	1-1/2"	10°	16053	16050
SN-81	3/16"	1/4"	3/16"	2"	10°	16153	16150
SN-53	3/16"	1/4"	1/8"	1-1/2"	10°	16103	16100
SN-51	1/4"	1/4"	1/8"	1-3/4"	10°	16078	16075
SN-1	1/4"	5/16"	1/4"	2"	10°	15853	15850
SN-2	3/8"	3/8"	1/4"	2-3/32"	13°	15878	15875
SN-4	1/2"	1/2"	1/4"	2-1/4"	28°	15903	15900
*SN-6	5/8"	3/4"	1/4"	2-1/2"	18°	15928	15925
*SN-7	3/4"	5/8"	1/4"	2-3/8"	30°	15978	15975

*Tige 3/8" optionnelle / *3/8" shank optional


UNIVERSEL TIGE ALLONGÉE / UNIVERSAL LONG SHANK

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Double coupe 6 Double cut 6	Coupe simple 3 Single cut 3
Cylindrique / Cylinder						
SA-1L6	1/4"	1/2"	1/4"	6-1/2"	16178	16175
SA-3L6	3/8"	3/4"	1/4"	6-3/4"	16203	16200
SA-5L6	1/2"	1"	1/4"	7"	16228	16225
Cylindrique + rayon / Cylinder + radius						
SC-1L6	1/4"	1/2"	1/4"	6-1/2"	16328	16325
SC-3L6	3/8"	3/4"	1/4"	6-3/4"	16353	16350
SC-5L6	1/2"	1"	1/4"	7"	16378	16375
Sphérique (boule) / Ball						
SD-1L6	1/4"	7/32"	1/4"	6-3/16"	16403	16400
SD-3L6	3/8"	5/16"	1/4"	6-5/16"	16428	16425
SD-5L6	1/2"	7/16"	1/4"	6-7/16"	16453	16450
Ovale / Oval						
SE-1L6	1/4"	3/8"	1/4"	6-3/8"	16478	16475
SE-3L6	3/8"	5/8"	1/4"	6-5/8"	16503	16500
SE-5L6	1/2"	7/8"	1/4"	6-7/8"	16528	16525
Ogive + rayon / Tree radius end						
SF-1L6	1/4"	1/2"	1/4"	6-1/2"	16553	16550
SF-3L6	3/8"	3/4"	1/4"	6-3/4"	16578	16575
SF-5L6	1/2"	1"	1/4"	7"	16603	16600
Ogive bout pointue / Tree pointed end						
SG-1L6	1/4"	1/2"	1/4"	6-1/2"	16628	16625
SG-3L6	3/8"	3/4"	1/4"	6-3/4"	16653	16650
SG-5L6	1/2"	1"	1/4"	7"	16678	16675
Flamme / Flame						
SH-2L6	5/16"	3/4"	1/4"	6-3/4"	16703	16700
SH-5L6	1/2"	1-1/4"	1/4"	7-1/4"	16728	16725
Conique + rayon 14° / 14° taper radius end						
SL-1L6	1/4"	5/8"	1/4"	6-5/8"	16753	16750
SL-3L6	3/8"	1-1/16"	1/4"	7-1/16"	16778	16775
SL-4L6	1/2"	1-1/8"	1/4"	7-1/16"	16803	16800

**La vitesse maximale recommandée pour les tiges allongées est de 15 000 tr/min
Maximum recommended speeds for extended length shanks is 15,000 RPM**



NG6 - présente une géométrie innovante, en attente de brevet, avec une combinaison unique de cannelures profilées conçues avec de faibles coupes transversales et des angles de relief primaires, qui, associée à la dernière technologie de revêtement, donne des résultats:

- Élimination significativement plus élevée des matières.
- Réduction du temps de rectification.
- Meilleure performance de coupe.
- Diminution du temps d'usinage.

En prenant en compte les points ci-dessus, NG6 réduit les coûts globaux de fabrication.

NG6 enlève plus de 75% de matière supplémentaire sur l'acier que les fraises à double coupe dès les 5 premières minutes de meulage! Avec le revêtement **Accelerator** unique, le taux d'enlèvement de matière est DOUBLE à celui d'une fraise à double tranchant. Le NG6 avec revêtement **Accelerator** en option, surpasse toutes les fraises en carbure comparables sur l'acier, l'acier inoxydable, l'acier doux et la fonte.

NG6 - introducing an innovative, patent-pending geometry with a unique combination of profiled fluting designed with low cross cuts and primary relief angles, which when combined with the latest in coating technology, delivers:

- Significantly higher levels of metal removal.
- Reduced operator grinding time.
- Improved cutting performance.
- Decreased component machine time.

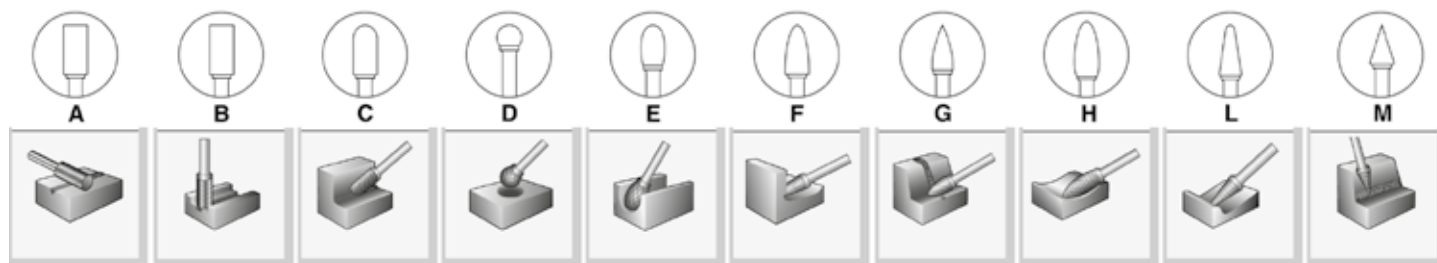
When factoring the points above, NG6 lowers overall manufacturing costs.

NG6 removes over 75% more stock on mild steel than double cut burrs during the first 5 minutes of grinding! With the unique **Accelerator** coating, the rate of stock removal is DOUBLE that of a double cut burr. The NG6 along with the coated **Accelerator** option, outperforms all comparable carbide burrs on steel, stainless steel, mild steel and cast iron.

FORMES DE FRAISES ET APPLICATIONS DE COUPE DISPONIBLES / AVAILABLE BURR SHAPES AND CUT APPLICATIONS

La Next Generation 6 est disponible en 10 formes, développées uniquement avec la géométrie de coupe NG6 pour fournir jusqu'à 100 % d'enlèvement de matière supplémentaire.

Next Generation 6 is available in 10 shapes, uniquely developed with the NG6 cut geometry to provide up to 100% more stock removal.



Vitesses de fonctionnement recommandées

Les vitesses de fonctionnement suivantes constituent un guide recommandé pour l'utilisation des fraises en carbure de tungstène, en fonction du diamètre de la tête de la fraise.

Recommended operating speeds

The following operating speeds are a recommended guide for the usage of tungsten carbide burrs, based on the burr head diameter.

Tête de fraise Burr head	Vitesse max. Max. speed	Fonte Cast iron		Acier non trempé Unhardened steel		Acier trempé, acier inoxydable Hardened steel, stainless steel	
		Plage de vitesses Speed range	Point de départ recommandé Recommended start point	Plage de vitesses Speed range	Point de départ recommandé Recommended start point	Plage de vitesses Speed range	Point de départ recommandé Recommended start point
1/4" (6 mm)	65	22-60	45	45-60	50	30-45	40
3/8" (10 mm)	55	15-40	30	30-40	30	19-30	25
1/2" (12 mm)	35	11-30	25	22-30	25	15-22	20
5/8" (16 mm)	25	9-20	20	18-20	20	12-18	15
3/4" (20 mm)	20	8-17	12	15-17	15	10-15	10
1" (25 mm)	15	6-13	10	10-13	10	7-11	8

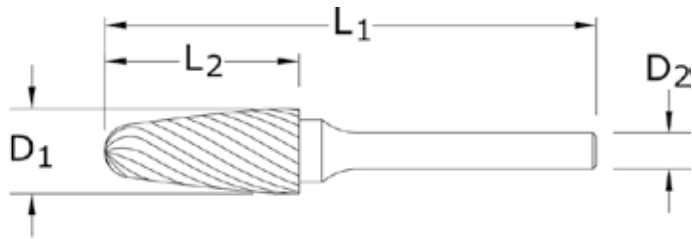
Toutes les vitesses dans le tableau ci-dessus sont X 1 000 tr/min.

AVERTISSEMENT: Il s'agit des vitesses recommandées pour les fraises de longueur standard, basées sur une longueur de tige de 1-3/4" et un dépassement maximal de 1/2".

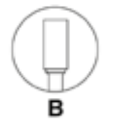
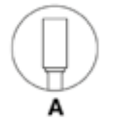
All speeds in the table above are X 1,000 RPM.

WARNING: These are recommended speeds for Standard Length Burrs based on 1-3/4" shank length and 1/2" maximum overhang.

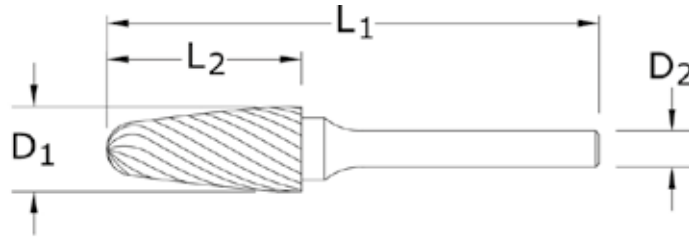



NG6 AVEC REVÊTEMENT ACCELERATOR / NG6 WITH ACCELERATOR COATING

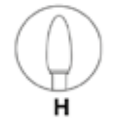
Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	No. Produit Product no.
NG6 A - Cylindrique sans coupe en bout / Cylinder without endcut					
SA-1	1/4"	5/8"	1/4"	2"	19750
SA-2	5/16"	3/4"	1/4"	2-1/2"	19751
SA-3	3/8"	3/4"	1/4"	2-1/2"	19752
SA-5	1/2"	1"	1/4"	2-3/4"	19753
SA-6	5/8"	1"	1/4"	2-3/4"	19754
NG6 B - Cylindrique avec coupe en bout / Cylinder with endcut					
SB-1	1/4"	5/8"	1/4"	2"	19755
SB-2	5/16"	3/4"	1/4"	2-1/2"	19756
SB-3	3/8"	3/4"	1/4"	2-1/2"	19757
SB-5	1/2"	1"	1/4"	2-3/4"	19758
SB-6	5/8"	1"	1/4"	2-3/4"	19759
NG6 C - Cylindrique bout rond / Ball nosed cylinder					
SC-1	1/4"	5/8"	1/4"	2"	19760
SC-2	5/16"	3/4"	1/4"	2-1/2"	19761
SC-3	3/8"	3/4"	1/4"	2-1/2"	19762
SC-5	1/2"	1"	1/4"	2-3/4"	19763
SC-6	5/8"	1"	1/4"	2-3/4"	19764
NG6 D - Sphérique (boule) / Ball					
SD-1	1/4"	7/32"	1/4"	2"	19765
SD-2	5/16"	1/4"	1/4"	2"	19766
SD-3	3/8"	5/16"	1/4"	2-1/16"	19767
SD-5	1/2"	7/16"	1/4"	2-1/8"	19768
SD-6	5/8"	9/16"	1/4"	2-1/4"	19769
NG6 E - Ovale / Oval					
SE-1	1/4"	3/8"	1/4"	2"	19770
SE-2	5/16"	5/8"	1/4"	2-3/8"	19771
SE-3	3/8"	5/8"	1/4"	2-3/8"	19772
SE-5	1/2"	7/8"	1/4"	2-5/8"	19773
SE-6	5/8"	1"	1/4"	2-3/4"	19774



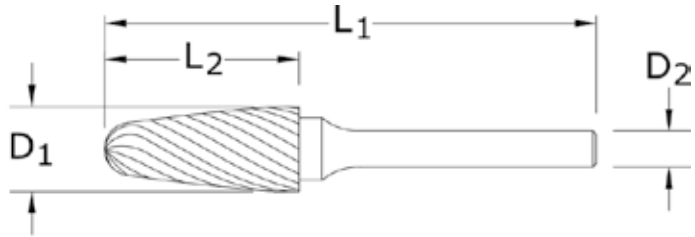
ACCELERATOR


NG6 AVEC REVÊTEMENT ACCELERATOR / NG6 WITH ACCELERATOR COATING

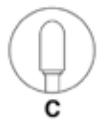
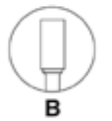
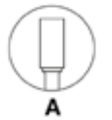
Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	No. Produit Product no.
NG6 F - Ogive bout rond / Ball nosed tree					
SF-1	1/4"	5/8"	1/4"	2"	19775
SF-2	5/16"	3/4"	1/4"	2-1/2"	19776
SF-3	3/8"	3/4"	1/4"	2-1/2"	19777
SF-5	1/2"	1"	1/4"	2-3/4"	19778
SF-6	5/8"	1"	1/4"	2-3/4"	19779
NG6 G - Ogive pointue / Pointed tree					
SG-1	1/4"	5/8"	1/4"	2"	19780
SG-2	5/16"	3/4"	1/4"	2-1/2"	19781
SG-3	3/8"	3/4"	1/4"	2-1/2"	19782
SG-5	1/2"	1"	1/4"	2-3/4"	19783
SG-6	5/8"	1"	1/4"	2-3/4"	19784
NG6 H - Flamme / Flame					
SH-1	1/4"	5/8"	1/4"	2"	19785
SH-2	5/16"	3/4"	1/4"	2-1/2"	19786
	3/8"	3/4"	1/4"	2-1/2"	19787
SH-5	1/2"	1-1/4"	1/4"	3"	19788
SH-6	5/8"	1-7/16"	1/4"	3-1/8"	19789
NG6 L - Conique bout arrondi / Ball nosed cone					
SL-1	1/4"	5/8"	1/4"	2"	19790
SL-2	5/16"	1"	1/4"	2-3/4"	19791
	3/8"	3/4"	1/4"	2-1/2"	19792
SL-4	1/2"	1-1/8"	1/4"	3"	19793
SL-5	5/8"	1-3/16"	1/4"	3-1/16"	19794
NG6 M - Conique / Cone					
SM-2	1/4"	3/4"	1/4"	2"	19795
	5/16"	3/4"	1/4"	2-1/2"	19796
SM-4	3/8"	3/4"	1/4"	2-1/2"	19797
SM-5	1/2"	7/8"	1/4"	2-3/4"	19798
SM-6	5/8"	1"	1/4"	2-7/8"	19799

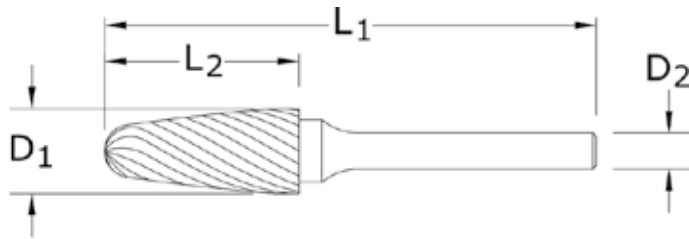


ACCELERATOR

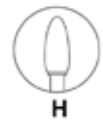


NG6 SANS REVÊTEMENT / NG6 WITHOUT COATING					
Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	No. Produit Product no.
NG6 A - Cylindrique sans coupe en bout / Cylinder without endcut					
SA-1	1/4"	5/8"	1/4"	2"	19600
SA-2	5/16"	3/4"	1/4"	2-1/2"	19601
SA-3	3/8"	3/4"	1/4"	2-1/2"	19602
SA-5	1/2"	1"	1/4"	2-3/4"	19603
SA-6	5/8"	1"	1/4"	2-3/4"	19604
NG6 B - Cylindrique avec coupe en bout / Cylinder with endcut					
SB-1	1/4"	5/8"	1/4"	2"	19605
SB-2	5/16"	3/4"	1/4"	2-1/2"	19606
SB-3	3/8"	3/4"	1/4"	2-1/2"	19607
SB-5	1/2"	1"	1/4"	2-3/4"	19608
SB-6	5/8"	1"	1/4"	2-3/4"	19609
NG6 C - Cylindrique bout rond / Ball nosed cylinder					
SC-1	1/4"	5/8"	1/4"	2"	19610
SC-2	5/16"	3/4"	1/4"	2-1/2"	19611
SC-3	3/8"	3/4"	1/4"	2-1/2"	19612
SC-5	1/2"	1"	1/4"	2-3/4"	19613
SC-6	5/8"	1"	1/4"	2-3/4"	19614
NG6 D - Sphérique (boule) / Ball					
SD-1	1/4"	7/32"	1/4"	2"	19615
SD-2	5/16"	1/4"	1/4"	2"	19616
SD-3	3/8"	5/16"	1/4"	2-1/16"	19617
SD-5	1/2"	7/16"	1/4"	2-1/8"	19618
SD-6	5/8"	9/16"	1/4"	2-1/4"	19619
NG6 E - Ovale / Oval					
SE-1	1/4"	3/8"	1/4"	2"	19620
SE-2	5/16"	5/8"	1/4"	2-3/8"	19621
SE-3	3/8"	5/8"	1/4"	2-3/8"	19622
SE-5	1/2"	7/8"	1/4"	2-5/8"	19623
SE-6	5/8"	1"	1/4"	2-3/4"	19624




NG6 SANS REVÊTEMENT / NG6 WITHOUT COATING

Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	No. Produit Product no.
NG6 F - Ogive bout rond / Ball nosed tree					
SF-1	1/4"	5/8"	1/4"	2"	19625
SF-2	5/16"	3/4"	1/4"	2-1/2"	19626
SF-3	3/8"	3/4"	1/4"	2-1/2"	19627
SF-5	1/2"	1"	1/4"	2-3/4"	19628
SF-6	5/8"	1"	1/4"	2-3/4"	19629
NG6 G - Ogive pointue / Pointed tree					
SG-1	1/4"	5/8"	1/4"	2"	19630
SG-2	5/16"	3/4"	1/4"	2-1/2"	19631
SG-3	3/8"	3/4"	1/4"	2-1/2"	19632
SG-5	1/2"	1"	1/4"	2-3/4"	19633
SG-6	5/8"	1"	1/4"	2-3/4"	19634
NG6 H - Flamme / Flame					
SH-1	1/4"	5/8"	1/4"	2"	19635
SH-2	5/16"	3/4"	1/4"	2-1/2"	19636
	3/8"	3/4"	1/4"	2-1/2"	19637
SH-5	1/2"	1-1/4"	1/4"	3"	19638
SH-6	5/8"	1-7/16"	1/4"	3-1/8"	19639
NG6 L - Conique bout arrondi / Ball nosed cone					
SL-1	1/4"	5/8"	1/4"	2"	19640
SL-2	5/16"	1"	1/4"	2-3/4"	19641
	3/8"	3/4"	1/4"	2-1/2"	19642
SL-4	1/2"	1-1/8"	1/4"	3"	19643
SL-5	5/8"	1-3/16"	1/4"	3-1/16"	19644
NG6 M - Conique / Cone					
SM-2	1/4"	3/4"	1/4"	2"	19645
	5/16"	3/4"	1/4"	2-1/2"	19646
SM-4	3/8"	3/4"	1/4"	2-1/2"	19647
SM-5	1/2"	7/8"	1/4"	2-3/4"	19648
SM-6	5/8"	1"	1/4"	2-7/8"	19649



ATA a sélectionné un assortiment des fraises les plus populaires pour une utilisation en application générale. Ces assortiments sont livrés dans un emballage robuste qui est facile à transporter, compact et recyclable.

ATA has selected an assortment of the most popular burrs for use in general application. These sets comes in robust packaging that is easy to carry, compact and recyclable.

No. art.
Art. no.

18260

5 pcs

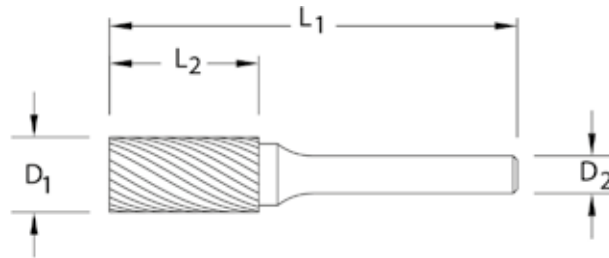


COMPREND:

- Sélection de 5 fraises rotatives de forme standard
- Diamètres de coupe de 3/8" et 1/2"
- Tige 1/4"
- Sans revêtement

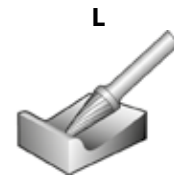
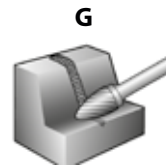
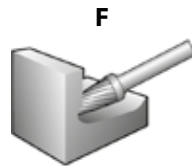
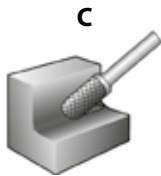
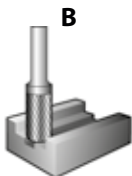
CONTENTS:

- 5-piece selection of standard shaped burrs
- 3/8" and 1/2" cut diameters
- 1/4" shank
- Uncoated



DOUBLE COUPE - ENSEMBLE DE 5 PIÈCES / DOUBLE CUT - 5-PIECE SET

No. outil Tool no.	Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Angle Angle	No. Produit Product no.
SB-3	Cylindrique avec coupe en bout Cylinder with endcut	3/8"	3/4"	1/4"	2-1/2"		10928
SC-5	Cylindrique bout rond Ball nosed cylinder	1/2"	1"	1/4"	2-3/4"		11878
SF-5	Ogive bout rond Ball nosed tree	1/2"	1"	1/4"	2-3/4"		13378
SG-3	Ogive pointue Pointed tree	3/8"	3/4"	1/4"	2-1/2"		13903
SL-4	Conique bout arrondi Ball nosed cone	1/2"	1-1/8"	1/4"	3"	14°	15253



No. art.
Art. no.

18266

5 pcs

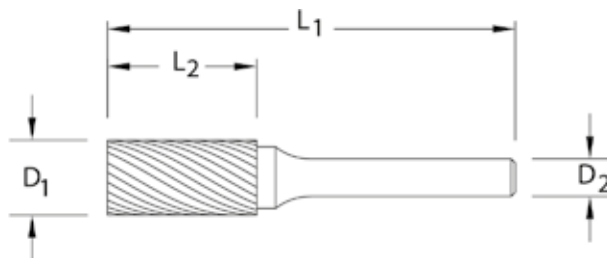


COMPREND:

- Sélection de 5 fraises rotatives revêtues standard
- Diamètres de coupe de 3/8" et 1/2"
- Tige 1/4"
- Revêtement nitrure de titane

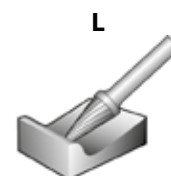
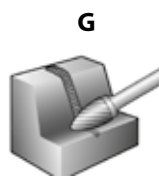
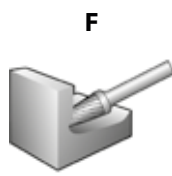
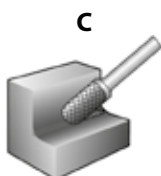
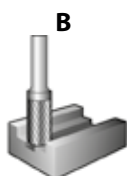
CONTENTS:

- 5-piece selection of standard coated burrs
- 3/8" and 1/2" cut diameters
- 1/4" shank
- Titanium nitride coated



DOUBLE COUPE - ENSEMBLE DE 5 PIÈCES / DOUBLE CUT - 5-PIECE SET

No. outil Tool no.	Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Angle Angle	No. Produit Product no.
SB-3	Cylindrique avec coupe en bout Cylinder with endcut	3/8"	3/4"	1/4"	2-1/2"		11795
SC-5	Cylindrique bout rond Ball nosed cylinder	1/2"	1"	1/4"	2-3/4"		11895
SF-5	Ogive bout rond Ball nosed tree	1/2"	1"	1/4"	2-3/4"		13385
SG-3	Ogive pointue Pointed tree	3/8"	3/4"	1/4"	2-1/2"		13915
SL-4	Conique bout arrondi Ball nosed cone	1/2"	1-1/8"	1/4"	3"	14°	15265



No. art.
Art. no.

18261

10 pcs

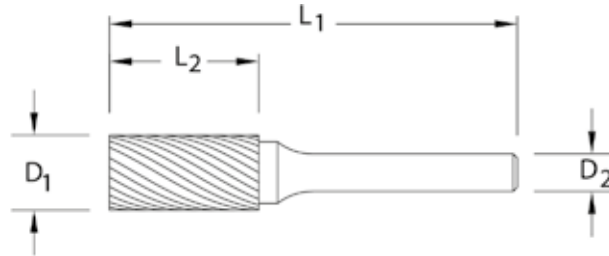


COMPRED:

- Sélection de 10 fraises rotatives de forme standard
- Diamètres de coupe de 3/8" et 1/2"
- Tige 1/4"
- Sans revêtement

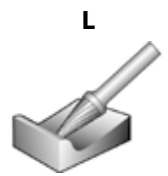
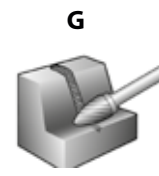
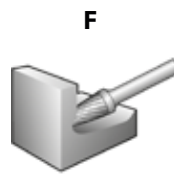
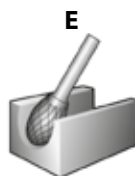
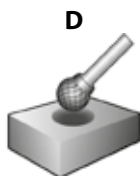
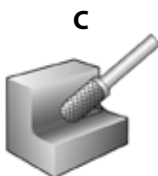
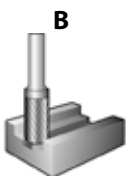
CONTENTS:

- 10 -piece selection of standard shaped burrs
- 3/8" and 1/2" cut diameters
- 1/4" shank
- Uncoated



DOUBLE COUPE - ENSEMBLE DE 10 PIÈCES / DOUBLE CUT - 10-PIECE SET

No. outil Tool no.	Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Angle Angle	No. Produit Product no.
SB-3	Cylindrique avec coupe en bout Cylinder with endcut	3/8"	3/4"	1/4"	2-1/2"		10928
SB-5	Cylindrique avec coupe en bout Cylinder with endcut	1/2"	1"	1/4"	2-3/4"		11028
SC-3	Cylindrique bout rond Ball nosed cylinder	3/8"	3/4"	1/4"	2-1/2"		11778
SC-5	Cylindrique bout rond Ball nosed cylinder	1/2"	1"	1/4"	2-3/4"		11878
SD-5	Sphérique (boule) Ball	1/2"	7/16"	1/4"	2-1/8"		12553
SE-3	Ovale Oval	3/8"	5/8"	1/4"	2-3/8"		12978
SF-5	Ogive bout rond Ball nosed tree	1/2"	1"	1/4"	2-3/4"		13378
SG-3	Ogive Tree	3/8"	3/4"	1/4"	2-1/2"		13903
SG-5	Ogive Tree	1/2"	1"	1/4"	2-3/4"		13928
SL-4	Conique bout arrondi Ball nosed cone	1/2"	1-1/8"	1/4"	3"	14°	15253



No. art.
Art. no.

18262

5 pcs

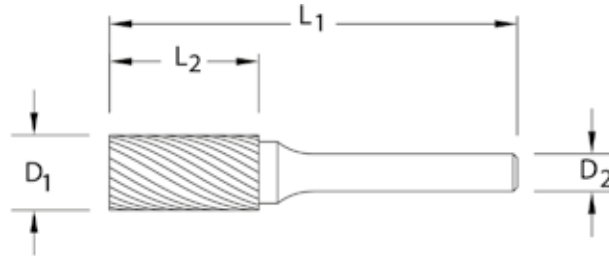


COMPREND:

- Sélection de 5 fraises rotatives de forme établie
- Diamètre de coupe de 1/2"
- Tige 1/4"
- Sans revêtement

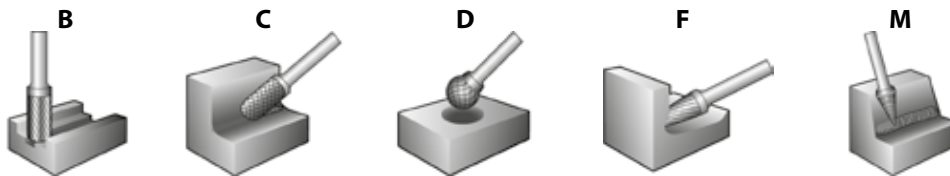
CONTENTS:

- 5-piece selection of established shaped burrs
- 1/2" cut diameter
- 1/4" shank
- Uncoated



DOUBLE COUPE - ENSEMBLE DE 5 PIÈCES / DOUBLE CUT - 5-PIECE SET

No. outil Tool no.	Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Angle Angle	No. Produit Product no.
SB-5	Cylindrique avec coupe en bout Cylinder with endcut	1/2"	1"	1/4"	2-3/4"		11028
SC-5	Cylindrique bout rond Ball nosed cylinder	1/2"	1"	1/4"	2-3/4"		11878
SD-5	Sphérique (boule) Ball	1/2"	7/16"	1/4"	2-1/8"		12553
SF-5	Ogive bout rond Ball nosed tree	1/2"	1"	1/4"	2-3/4"		13378
SM5	Conique Cone	1/2"	7/8"	1/4"	2-3/4"	28°	15603



No. art.
Art. no.

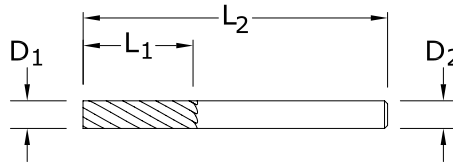
18263

COMPREND:

- Sélection de 10 fraises rotatives de forme établie
- Diamètre de coupe de 1/8"
- Tige 1/8"
- Sans revêtement

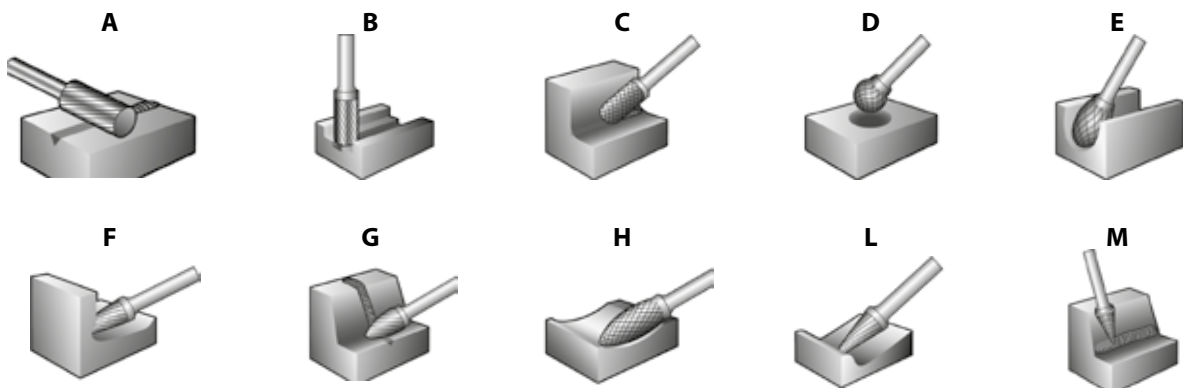
CONTENTS:

- 10-piece selection of established shaped burrs
- 1/8" cut diameter
- 1/8" shank
- Uncoated



DOUBLE COUPE MINIATURE - ENSEMBLE DE 10 PIÈCES / DOUBLE CUT MINIATURE - 10-PIECE SET

No. outil Tool no.	Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Angle Angle	No. Produit Product no.
SA-43	Cylindrique sans coupe en bout Cylinder without endcut	1/8	9/16	1/8	1-1/2		10653
SB-43	Cylindrique avec coupe en bout Cylinder with endcut	1/8	9/16	1/8	1-1/2		11503
SC-42	Cylindrique bout rond Ball nosed cylinder	1/8	9/16	1/8	1-1/2		12278
SD-42	Sphérique (boule) Ball	1/8	1/8	1/8	1-1/2		12803
SE-41	Ovale Oval	1/8	7/32	1/8	1-1/2		13153
SF-42	Ogive bout rond Ball nosed tree	1/8	1/2	1/8	1-1/2		13703
SG-44	Ogive Tree	1/8	1/2	1/8	1-1/2		14228
SH-41	Flamme Flame	1/8	1/4	1/8	1-1/2		14553
SL-41	Conique bout arrondi Ball nosed cone	1/8	3/8	1/8	1-1/2	8°	15403
SM-42	Conique Cone	1/8	7/16	1/8	1-1/2	14°	15703



No. art.
Art. no.

19800

ACCELERATOR

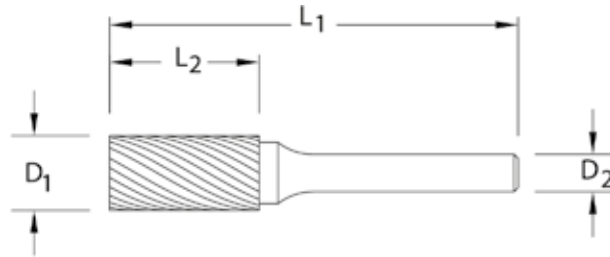
COMPREND:

- Sélection de 5 fraises rotatives NG6
- Diamètre de coupe de 3/8"
- Tige 1/4"
- Revêtement NG6 Accelerator

CONTENTS:

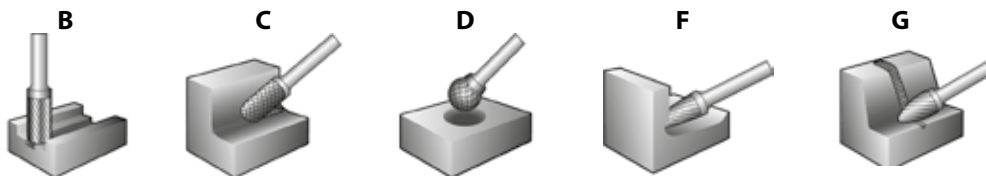
- 5-piece selection of NG6 burrs
- 3/8" cut diameter
- 1/4" shank
- NG6 Accelerator coating

5 pcs



ENSEMBLE DE 5 PIÈCES NG6 AVEC REVÊTEMENT ACCELERATOR / NG6 WITH ACCELERATOR COATING - 5-PIECE SET

No. outil Tool no.	Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	No. Produit Product no.
SB-3	Cylindrique avec coupe en bout Cylinder with endcut	3/8"	3/4"	1/4"	2-1/2"	19757
SC-3	Cylindrique bout rond Ball nosed cylinder	3/8"	3/4"	1/4"	2-1/2"	19762
SD-3	Sphérique (boule) Ball	3/8"	5/16"	1/4"	2-1/16"	19767
SF-3	Ogive bout rond Ball nosed tree	3/8"	3/4"	1/4"	2-1/2"	19777
SG-3	Ogive pointue Pointed tree	3/8"	3/4"	1/4"	2-1/2"	19782



No. art.
Art. no.

19801

ACCELERATOR

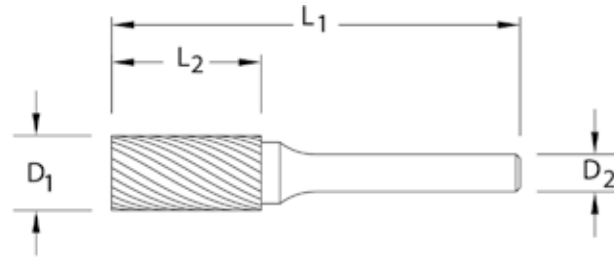
COMPREND:

- Sélection de 5 fraises rotatives NG6
- Diamètre de coupe de 1/2"
- Tige 1/4"
- Revêtement NG6 Accelerator

CONTENTS:

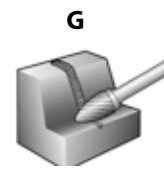
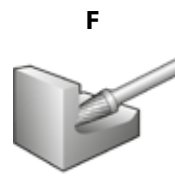
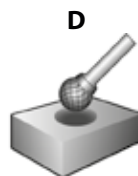
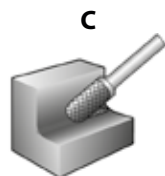
- 5-piece selection of NG6 burrs
- 1/2" cut diameter
- 1/4" shank
- NG6 Accelerator coating

5 pcs



ENSEMBLE DE 5 PIÈCES NG6 AVEC REVÊTEMENT ACCELERATOR / NG6 WITH ACCELERATOR COATING - 5-PIECE SET

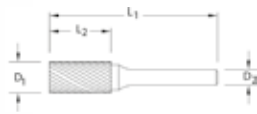
No. outil Tool no.	Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	No. Produit Product no.
SB-5	Cylindrique avec coupe en bout Cylinder with endcut	1/2	1	1/4	2-3/4	19758
SC-5	Cylindrique bout rond Ball nosed cylinder	1/2	1	1/4	2-3/4	19763
SD-5	Sphérique (boule) Ball	1/2	7/16	1/4	2-1/8	19768
SF-5	Ogive bout rond Ball nosed tree	1/2	1	1/4	2-3/4	19778
SG-5	Ogive pointue Pointed tree	1/2	1	1/4	2-3/4	19783



No. art.
Art. no.

18264

40 pcs



- Entretien réduit
- Emballage résistant
- Produit sécurisé
- 100% recyclable

- Low maintenance
- Heavy duty packaging
- Secure product
- 100% recyclable

COMPREND:

- Fraises universelles à double coupe
- Diamètres 1/4", 5/16", 3/8" & 1/2"
- Tige 1/4"
- Configuration de 5 formes (2 de chaque)

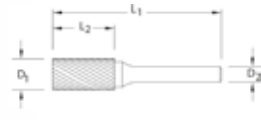
CONTENTS:

- Universal double cut burrs
- 1/4", 5/16", 3/8" & 1/2" diameters
- 1/4" shank
- 5 shapes configurations (2 of each)

DOUBLE COUPE - PRÉSENTOIR DE 40 PIÈCES / DOUBLE CUT - 40-PIECE DISPLAY

No. outil Tool no.	Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Angle Angle	No. Produit Product no.
SB-1	Cylindrique avec coupe en bout Cylinder with endcut	1/4"	5/8"	1/4"	2"		10853
SB-2	Cylindrique avec coupe en bout Cylinder with endcut	5/16"	3/4"	1/4"	2-1/2"		10903
SB-3	Cylindrique bout rond Ball nosed cylinder	3/8"	3/4"	1/4"	2-1/2"		10928
SB-5	Cylindrique bout rond Ball nosed cylinder	1/2"	1"	1/4"	2-3/4"		11028
SC-1	Cylindrique bout rond Ball nosed cylinder	1/4"	5/8"	1/4"	2"		11703
SC-2	Cylindrique bout rond Ball nosed cylinder	5/16"	3/4"	1/4"	2-1/2"		11753
SC-3	Cylindrique bout rond Ball nosed cylinder	3/8"	3/4"	1/4"	2-1/2"		11778
SC-5	Cylindrique bout rond Ball nosed cylinder	1/2"	1"	1/4"	2-3/4"		11878
SF-1	Ogive bout rond Ball nosed tree	1/4"	5/8"	1/4"	2"		13303
SF-2	Ogive bout rond Ball nosed tree	5/16"	3/4"	1/4"	2-1/2"		18060
SF-3	Ogive bout rond Ball nosed tree	3/8"	3/4"	1/4"	2-1/2"		13328
SF-5	Ogive bout rond Ball nosed tree	1/2"	1"	1/4"	2-3/4"		13378
SG-1	Ogive pointue Pointed tree	1/4"	5/8"	1/4"	2"		13853
SG-2	Ogive pointue Pointed tree	5/16"	3/4"	1/4"	2-1/2"		13878
SG-3	Ogive pointue Pointed tree	3/8"	3/4"	1/4"	2-1/2"		13903
SG-5	Ogive pointue Pointed tree	1/2"	1"	1/4"	2-3/4"		13928
SL-1	Conique bout arrondi Ball nosed cone	1/4"	5/8"	1/4"	2"	14°	15178
SL-2	Conique bout arrondi Ball nosed cone	5/16"	7/8"	1/4"	2-3/4"	14°	15203
SL-3	Conique bout arrondi Ball nosed cone	3/8"	1-1/16"	1/4"	3"	14°	15228
SL-4	Conique bout arrondi Ball nosed cone	1/2"	1-1/8"	1/4"	3"	14°	15253

No. art.
Art. no.
19802-EX



ACCELERATOR

- Entretien réduit
- Emballage résistant
- Produit sécurisé
- 100% recyclable

- Low maintenance
- Heavy duty packaging
- Secure product
- 100% recyclable

40 pcs



COMPREND:

- Fraise revêtue NG6 «ACCELERATOR»
- Diamètres 1/4", 5/16", 3/8" & 1/2"
- Tige 1/4"
- Configuration de 5 formes (2 de chaque)

CONTENTS:

- NG6 ACCELERATOR coated burrs
- 1/4", 5/16", 3/8" & 1/2" diameters
- 1/4" shank
- 5 shapes configurations (2 of each)

PRÉSENTOIR DE 40 PIÈCES NG6 AVEC REVÊTEMENT ACCELERATOR / 40-PIECE DISPLAY NG6 WITH ACCELERATOR COATING

No. outil Tool no.	Description Description	Diamètre de coupe Cutting diameter D1	Longueur de coupe Length of cut L2	Diamètre de la tige Shank diameter D2	Longueur totale Overall length L1	Angle Angle	No. Produit Product no.
SB-1	Cylindrique avec coupe en bout Cylinder with endcut	1/4"	5/8"	1/4"	2"		19755
SB-3	Cylindrique avec coupe en bout Cylinder with endcut	3/8"	3/4"	1/4"	2-1/2"		19757
SB-5	Cylindrique bout rond Ball nosed cylinder	1/2"	1"	1/4"	2-3/4"		19758
SB-6	Cylindrique bout rond Ball nosed cylinder	5/8"	1"	1/4"	2-3/4"		19759
SC-1	Cylindrique bout rond Ball nosed cylinder	1/4"	5/8"	1/4"	2"		19760
SC-3	Cylindrique bout rond Ball nosed cylinder	3/8"	3/4"	1/4"	2-1/2"		19762
SC-5	Cylindrique bout rond Ball nosed cylinder	1/2"	1"	1/4"	2-3/4"		19763
SC-6	Cylindrique bout rond Ball nosed cylinder	5/8"	1"	1/4"	2-3/4"		19764
SF-1	Ogive bout rond Ball nosed tree	1/4"	5/8"	1/4"	2"		19775
SF-3	Ogive bout rond Ball nosed tree	3/8"	3/4"	1/4"	2-1/2"		19777
SF-5	Ogive bout rond Ball nosed tree	1/2"	1"	1/4"	2-3/4"		19778
SF-6	Ogive bout rond Ball nosed tree	5/8"	1"	1/4"	2-3/4"		19779
SG-1	Ogive pointue Pointed tree	1/4"	5/8"	1/4"	2"		19780
SG-3	Ogive pointue Pointed tree	3/8"	3/4"	1/4"	2-1/2"		19782
SG-5	Ogive pointue Pointed tree	1/2"	1"	1/4"	2-3/4"		19783
SG-6	Ogive pointue Pointed tree	5/8"	1"	1/4"	2-3/4"		19784
SL-1	Conique bout arrondi Ball nosed cone	1/4"	5/8"	1/4"	2"	14°	19790
SL-2	Conique bout arrondi Ball nosed cone	5/16"	1"	1/4"	2-3/4"	14°	19791
SL-4	Conique bout arrondi Ball nosed cone	1/2"	1-1/8"	1/4"	3"	14°	19793
SL-5	Conique bout arrondi Ball nosed cone	5/8"	1-3/16"	1/4"	3-1/16"	14°	19794

NOTES



NOTES



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