

ADVICE AND SERVICE FROM SHIWEI



Maximum reliability and high performance, even in extreme conditions, this is hallmark of SHIWEI tools. Regular maintenance and care, combined with attentive customer service, play a vital role in guaranteeing the tools' operational efficiency and reliability well into the future.

SHIWEI dealers are happy to provide you with advice on selecting the right product to meet your needs, and they also give you useful tips on using the tools correctly and offer you professional service. This gives you the assurance that your SHIWEI machine will be a pleasure to use for many years.

Every SHIWEI product is backed by a comprehensive guarantee, the period of which varies according to model. If your tools requires servicing or repair under warranty, contact

your SHIWEI authorized dealer. The SHIWEI service organization has original SHIWEI parts in stock for you. Always use original spare parts with the logo "SHIWEI" to ensure maximum performance, reliability and service life from your SHIWEI tools.

It is very important to study the entire owner's manual prior to initial operation and to take sufficient care when using a SHIWEI product, while always adhering to the safety instructions. If used incorrectly, all products can be a source of potential danger to the user, onlookers, animals, or nearby objects. Non-compliance could result in death or serious injury.

www.shiwei.com

Your SHIWEI stockist



One Choice All Solved

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has a policy of continuous improvement

and reserves the right to change models and specifications without prior notification

CATALOG

ANNULAR HOLE CUTTERS
WELDON SHANK DRILLS
WELDON SHANK COUNTERSINKS
COMBINATION DRILL&TAPS
WELDON EXTENTION ACCESSORIES

MORE THAN 38 YEARS OF US



Time flies. More than 38 years of us, **SOLID** hardware tools Co.,Ltd is located in the beautiful ancient city of Yangzhou. Our company was established in the beginning of 1980's, specialized in the manufacture of cutting tools, hardware etc. We have constantly kept fine quality and enjoyed a good reputation among users both at home and abroad.

Through the years we always wanted to do things better."Listen properly to customers' wishes and make sure you live up to expectations"...We stick to enterprise spirit of "pursuing reality, recreating fresh, exploring and progressing",we will sincerely cooperate with customers from all over the world.

At the **SOLID** Company we are constantly upgrading our technology to provide our customers with leading edge products that perform. Not only do we provide our customers with top quality machining and tooling, we know that to keep them coming back to the **SOLID** Company we must provide superior customer care and top quality performance.

SOLID Hardware Tools Co.,Ltd was established to produce high quality products in 2009 in Yangzhou in order to meet the need of customers.**SOLID** Hardware Tools Co.,Ltd has almost 18000m² space. At now we put 6000m² for production and 1100m² for office.

Through our 35 years of experience, we have recognized that providing superior service does not end with a quality product-it takes products, service, and performance. We pride ourselves on being a value-added operation, offering you service from beginning to end and everywhere in between.



PRODUCTS

SHIWEI produce and supply our customers with products they can count on and quality.

For each single product the emphasis is on safety, diversity and quality. We provide an extensive package of expert products.



SAFETY

All SHIWEI tools are designed for the world market. Obviously all user safety regulations have been met.

SHIWEI has taken all of these requirements into account and therefore puts nothing but the safest products into the market.



QUALITY GUARANTEED

At each production phase all SHIWEI tools are subjected to the strictest quality checks. Quality inspectors study each component with the utmost care to guarantee nothing but the best quality.

Once all tested products have been packaged, they are stored in the factory warehouses. Subsequently machines are randomly taken away from stock, dismantled entirely at the test center, accurately remeasured and checked. When everything is seen to be in perfect order the products may leave the factory.



CUSTOMIZATION SOLUTION

In order to help our customers enjoy high-quality services around the world.

Our company provide the **"One Choice Solved All"** project, including new project"special solution to the problem".

- 1.Comprehensively customized non-standard tool
- 2.Improve product quality
 - Cutting performance improvement.
 - Durability and Heat Resistance improvement.



SERVICE AND SUPPORT

Not only does SHIWEI provide top quality equipment, we bring you uncompromised service as well. Our knowledgeable sales staff is on call 24 hours a day to answer your questions or provide on-site service.

SHIWEI dedicates careful attention to informing the distribution partners. By offering intensive support to our dealers/wholesalers we help them choose the right products.

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ANNULAR HOLE CUTTERS



ANNULAR HOLE CUTTERS

Product Information

SHIWEI Annular Cutters are manufactured using superior-quality raw material. The cutters are appreciated worldwide for their optimum performance, durability and longer functional life.

Being corrosion resistant, durable and non-abrasive, **SHIWEI** Annular Cutters are widely used in the construction, oil and shipping industry as well as in different other industries.

Annular cutting

Cutting metal with **SHIWEI** Annular Cutters is an efficient way to create holes of ϕ 12 mm (7/16") up to 130 mm (5") diameter. They come in cutting depths (Doc) 30 mm (1"), 55 mm (2"), 75 mm (3") and 110 (4") mm.

Annular Hole cutters will save you costs and time:

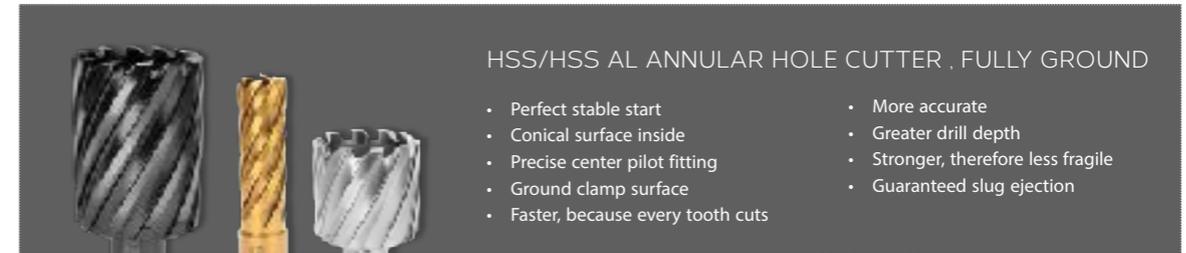
Annular Hole cutters cut up to ten times faster than twist drills . Annular Hole cutters only cut the width of the teeth. The core is ejected. Lower energy requirements and less wear result in a longer working life . Centering and pilot drilling are not necessary anymore.

Twist drills have to machine the entire diameter of the hole. This calls for considerable downward pressure and high driving power.

The most important cutting edge:

1. Increase cutting performances and reduced cutting forces.
2. For universal use in various sorts of steel.
3. U-shaped recesses improve the chips to a very great extent and reduce the thermal load on the cutter as the heat created in cutting is well removed with the long chips.
4. Optimized spiral-shaped guide chamfers reduce the friction between the cutter and the work piece.

How to understand our Article No.



HSS/HSS AL ANNULAR HOLE CUTTER , FULLY GROUND

- Perfect stable start
- Conical surface inside
- Precise center pilot fitting
- Ground clamp surface
- Faster, because every tooth cuts
- More accurate
- Greater drill depth
- Stronger, therefore less fragile
- Guaranteed slug ejection



Size ϕ	Cutting depth	Article No.			
ϕ SPECIFICATION	CUTTING DEPTH	NATURAL	TiN	TiALN	PLATING
12mm	25mm	0112025AGW	0112025ATW	0112025ALW	0112025AOW
12.5mm	25mm	0112525AGW	0112525ATW	0112525ALW	0112525AOW
13mm	25mm	0113025AGW	0113025ATW	0113025ALW	0113025AOW
13.5mm	25mm	0113525AGW	0113525ATW	0113525ALW	0113525AOW
14mm	25mm	0114025AGW	0114025ATW	0114025ALW	0114025AOW
15mm	25mm	0115025AGW	0115025ATW	0115025ALW	0115025AOW
16mm	25mm	0116025AGW	0116025ATW	0116025ALW	0116025AOW
17mm	25mm	0117025AGW	0117025ATW	0117025ALW	0117025AOW
17.5mm	25mm	0117525AGW	0117525ATW	0117525ALW	0117525AOW
18mm	25mm	0118025AGW	0118025ATW	0118025ALW	0118025AOW
19mm	25mm	0119025AGW	0119025ATW	0119025ALW	0119025AOW
20mm	25mm	0120025AGW	0120025ATW	0120025ALW	0120025AOW
21mm	25mm	0121025AGW	0121025ATW	0121025ALW	0121025AOW
22mm	25mm	0122025AGW	0122025ATW	0122025ALW	0122025AOW
23mm	25mm	0123025AGW	0123025ATW	0123025ALW	0123025AOW
24mm	25mm	0124025AGW	0124025ATW	0124025ALW	0124025AOW
25mm	25mm	0125025AGW	0125025ATW	0125025ALW	0125025AOW
26mm	25mm	0126025AGW	0126025ATW	0126025ALW	0126025AOW
27mm	25mm	0127025AGW	0127025ATW	0127025ALW	0127025AOW
28mm	25mm	0128025AGW	0128025ATW	0128025ALW	0128025AOW
29mm	25mm	0129025AGW	0129025ATW	0129025ALW	0129025AOW
30mm	25mm	0130025AGW	0130025ATW	0130025ALW	0130025AOW
31mm	25mm	0131025AGW	0131025ATW	0131025ALW	0131025AOW
32mm	25mm	0132025AGW	0132025ATW	0132025ALW	0132025AOW
33mm	25mm	0133025AGW	0133025ATW	0133025ALW	0133025AOW
34mm	25mm	0134025AGW	0134025ATW	0134025ALW	0134025AOW

ANNULAR HOLE CUTTERS

Size ϕ Cutting depth		Article No.			
35mm	25mm	0135025AGW	0135025ATW	0135025ALW	0135025AOW
36mm	25mm	0136025AGW	0136025ATW	0136025ALW	0136025AOW
37mm	25mm	0137025AGW	0137025ATW	0137025ALW	0137025AOW
38mm	25mm	0138025AGW	0138025ATW	0138025ALW	0138025AOW
39mm	25mm	0139025AGW	0139025ATW	0139025ALW	0139025AOW
40mm	25mm	0140025AGW	0140025ATW	0140025ALW	0140025AOW
41mm	25mm	0141025AGW	0141025ATW	0141025ALW	0141025AOW
42mm	25mm	0142025AGW	0142025ATW	0142025ALW	0142025AOW
43mm	25mm	0143025AGW	0143025ATW	0143025ALW	0143025AOW
44mm	25mm	0144025AGW	0144025ATW	0144025ALW	0144025AOW
45mm	25mm	0145025AGW	0145025ATW	0145025ALW	0145025AOW
46mm	25mm	0146025AGW	0146025ATW	0146025ALW	0146025AOW
47mm	25mm	0147025AGW	0147025ATW	0147025ALW	0147025AOW
48mm	25mm	0148025AGW	0148025ATW	0148025ALW	0148025AOW
49mm	25mm	0149025AGW	0149025ATW	0149025ALW	0149025AOW
50mm	25mm	0150025AGW	0150025ATW	0150025ALW	0150025AOW
51mm	25mm	0151025AGW	0151025ATW	0151025ALW	0151025AOW
52mm	25mm	0152025AGW	0152025ATW	0152025ALW	0152025AOW
53mm	25mm	0153025AGW	0153025ATW	0153025ALW	0153025AOW
54mm	25mm	0154025AGW	0154025ATW	0154025ALW	0154025AOW
55mm	25mm	0155025AGW	0155025ATW	0155025ALW	0155025AOW
56mm	25mm	0156025AGW	0156025ATW	0156025ALW	0156025AOW
57mm	25mm	0157025AGW	0157025ATW	0157025ALW	0157025AOW
58mm	25mm	0158025AGW	0158025ATW	0158025ALW	0158025AOW
59mm	25mm	0159025AGW	0159025ATW	0159025ALW	0159025AOW
60mm	25mm	0160025AGW	0160025ATW	0160025ALW	0160025AOW
65mm	25mm	0165025AGW	0165025ATW	0165025ALW	0165025AOW
70mm	25mm	0170025AGW	0170025ATW	0170025ALW	0170025AOW
75mm	25mm	0175025AGW	0175025ATW	0175025ALW	0175025AOW
80mm	25mm	0180025AGW	0180025ATW	0180025ALW	0180025AOW
85mm	25mm	0185025AGW	0185025ATW	0185025ALW	0185025AOW
90mm	25mm	0190025AGW	0190025ATW	0190025ALW	0190025AOW
95mm	25mm	0195025AGW	0195025ATW	0195025ALW	0195025AOW

Size ϕ Cutting depth		Article No.			
12mm	35mm	0112035AGW	0112035ATW	0112035ALW	0112035AOW
12.5mm	35mm	0112535AGW	0112535ATW	0112535ALW	0112535AOW
13mm	35mm	0113035AGW	0113035ATW	0113035ALW	0113035AOW
13.5mm	35mm	0113535AGW	0113535ATW	0113535ALW	0113535AOW
14mm	35mm	0114035AGW	0114035ATW	0114035ALW	0114035AOW
15mm	35mm	0115035AGW	0115035ATW	0115035ALW	0115035AOW
16mm	35mm	0116035AGW	0116035ATW	0116035ALW	0116035AOW
17mm	35mm	0117035AGW	0117035ATW	0117035ALW	0117035AOW
17.5mm	35mm	0117535AGW	0117535ATW	0117535ALW	0117535AOW
18mm	35mm	0118035AGW	0118035ATW	0118035ALW	0118035AOW
19mm	35mm	0119035AGW	0119035ATW	0119035ALW	0119035AOW
20mm	35mm	0120035AGW	0120035ATW	0120035ALW	0120035AOW
21mm	35mm	0121035AGW	0121035ATW	0121035ALW	0121035AOW
22mm	35mm	0122035AGW	0122035ATW	0122035ALW	0122035AOW
23mm	35mm	0123035AGW	0123035ATW	0123035ALW	0123035AOW
24mm	35mm	0124035AGW	0124035ATW	0124035ALW	0124035AOW
25mm	35mm	0125035AGW	0125035ATW	0125035ALW	0125035AOW
26mm	35mm	0126035AGW	0126035ATW	0126035ALW	0126035AOW
27mm	35mm	0127035AGW	0127035ATW	0127035ALW	0127035AOW
28mm	35mm	0128035AGW	0128035ATW	0128035ALW	0128035AOW
29mm	35mm	0129035AGW	0129035ATW	0129035ALW	0129035AOW
30mm	35mm	0130035AGW	0130035ATW	0130035ALW	0130035AOW
31mm	35mm	0131035AGW	0131035ATW	0131035ALW	0131035AOW
32mm	35mm	0132035AGW	0132035ATW	0132035ALW	0132035AOW
33mm	35mm	0133035AGW	0133035ATW	0133035ALW	0133035AOW
34mm	35mm	0134035AGW	0134035ATW	0134035ALW	0134035AOW
35mm	35mm	0135035AGW	0135035ATW	0135035ALW	0135035AOW
36mm	35mm	0136035AGW	0136035ATW	0136035ALW	0136035AOW
37mm	35mm	0137035AGW	0137035ATW	0137035ALW	0137035AOW
38mm	35mm	0138035AGW	0138035ATW	0138035ALW	0138035AOW
39mm	35mm	0139035AGW	0139035ATW	0139035ALW	0139035AOW
40mm	35mm	0140035AGW	0140035ATW	0140035ALW	0140035AOW
41mm	35mm	0141035AGW	0141035ATW	0141035ALW	0141035AOW
42mm	35mm	0142035AGW	0142035ATW	0142035ALW	0142035AOW

ANNULAR HOLE CUTTERS

Size ϕ Cutting depth		Article No.			
SPECIFICATION	CUTTING DEPTH	WELDON			
		NATURAL	TiN	TiALN	PLATING
43mm	35mm	0143035AGW	0143035ATW	0143035ALW	0143035AOW
44mm	35mm	0144035AGW	0144035ATW	0144035ALW	0144035AOW
45mm	35mm	0145035AGW	0145035ATW	0145035ALW	0145035AOW
46mm	35mm	0146035AGW	0146035ATW	0146035ALW	0146035AOW
47mm	35mm	0147035AGW	0147035ATW	0147035ALW	0147035AOW
48mm	35mm	0148035AGW	0148035ATW	0148035ALW	0148035AOW
49mm	35mm	0149035AGW	0149035ATW	0149035ALW	0149035AOW
50mm	35mm	0150035AGW	0150035ATW	0150035ALW	0150035AOW
51mm	35mm	0151035AGW	0151035ATW	0151035ALW	0151035AOW
52mm	35mm	0152035AGW	0152035ATW	0152035ALW	0152035AOW
53mm	35mm	0153035AGW	0153035ATW	0153035ALW	0153035AOW
54mm	35mm	0154035AGW	0154035ATW	0154035ALW	0154035AOW
55mm	35mm	0155035AGW	0155035ATW	0155035ALW	0155035AOW
56mm	35mm	0156035AGW	0156035ATW	0156035ALW	0156035AOW
57mm	35mm	0157035AGW	0157035ATW	0157035ALW	0157035AOW
58mm	35mm	0158035AGW	0158035ATW	0158035ALW	0158035AOW
59mm	35mm	0159035AGW	0159035ATW	0159035ALW	0159035AOW
60mm	35mm	0160035AGW	0160035ATW	0160035ALW	0160035AOW
65mm	35mm	0165035AGW	0165035ATW	0165035ALW	0165035AOW
70mm	35mm	0170035AGW	0170035ATW	0170035ALW	0170035AOW
75mm	35mm	0175035AGW	0175035ATW	0175035ALW	0175035AOW
80mm	35mm	0180035AGW	0180035ATW	0180035ALW	0180035AOW
85mm	35mm	0185035AGW	0185035ATW	0185035ALW	0185035AOW
90mm	35mm	0190035AGW	0190035ATW	0190035ALW	0190035AOW
95mm	35mm	0195035AGW	0195035ATW	0195035ALW	0195035AOW



Features:

- Perfect stable start
- Conical surface inside
- Precise center pilot fitting
- Ground clamp surface
- Faster, because every tooth cuts
- More accurate
- Greater drill depth
- Stronger, therefore less fragile
- Guaranteed slug ejection

Size ϕ Cutting depth		Article No.			
SPECIFICATION	CUTTING DEPTH	WELDON			
		NATURAL	TiN	TiALN	PLATING
12mm	50mm	0112050AGW	0112050ATW	0112050ALW	0112050AOW
12.5mm	50mm	0112550AGW	0112550ATW	0112550ALW	0112550AOW
13mm	50mm	0113050AGW	0113050ATW	0113050ALW	0113050AOW
13.5mm	50mm	0113550AGW	0113550ATW	0113550ALW	0113550AOW
14mm	50mm	0114050AGW	0114050ATW	0114050ALW	0114050AOW
15mm	50mm	0115050AGW	0115050ATW	0115050ALW	0115050AOW
16mm	50mm	0116050AGW	0116050ATW	0116050ALW	0116050AOW
17mm	50mm	0117050AGW	0117050ATW	0117050ALW	0117050AOW
17.5mm	50mm	0117550AGW	0117550ATW	0117550ALW	0117550AOW
18mm	50mm	0118050AGW	0118050ATW	0118050ALW	0118050AOW
19mm	50mm	0119050AGW	0119050ATW	0119050ALW	0119050AOW
20mm	50mm	0120050AGW	0120050ATW	0120050ALW	0120050AOW
21mm	50mm	0121050AGW	0121050ATW	0121050ALW	0121050AOW
22mm	50mm	0122050AGW	0122050ATW	0122050ALW	0122050AOW
23mm	50mm	0123050AGW	0123050ATW	0123050ALW	0123050AOW
24mm	50mm	0124050AGW	0124050ATW	0124050ALW	0124050AOW
25mm	50mm	0125050AGW	0125050ATW	0125050ALW	0125050AOW
26mm	50mm	0126050AGW	0126050ATW	0126050ALW	0126050AOW
27mm	50mm	0127050AGW	0127050ATW	0127050ALW	0127050AOW
28mm	50mm	0128050AGW	0128050ATW	0128050ALW	0128050AOW
29mm	50mm	0129050AGW	0129050ATW	0129050ALW	0129050AOW
30mm	50mm	0130050AGW	0130050ATW	0130050ALW	0130050AOW
31mm	50mm	0131050AGW	0131050ATW	0131050ALW	0131050AOW
32mm	50mm	0132050AGW	0132050ATW	0132050ALW	0132050AOW
33mm	50mm	0133050AGW	0133050ATW	0133050ALW	0133050AOW
34mm	50mm	0134050AGW	0134050ATW	0134050ALW	0134050AOW
35mm	50mm	0135050AGW	0135050ATW	0135050ALW	0135050AOW
36mm	50mm	0136050AGW	0136050ATW	0136050ALW	0136050AOW
37mm	50mm	0137050AGW	0137050ATW	0137050ALW	0137050AOW
38mm	50mm	0138050AGW	0138050ATW	0138050ALW	0138050AOW
39mm	50mm	0139050AGW	0139050ATW	0139050ALW	0139050AOW
40mm	50mm	0140050AGW	0140050ATW	0140050ALW	0140050AOW
41mm	50mm	0141050AGW	0141050ATW	0141050ALW	0141050AOW
42mm	50mm	0142050AGW	0142050ATW	0142050ALW	0142050AOW

ANNULAR HOLE CUTTERS

Size ϕ Cutting depth		Article No.			
		WELDON			
		NATURAL	TiN	TiAlN	PLATING
43mm	50mm	0143050AGW	0143050ATW	0143050ALW	0143050AOW
44mm	50mm	0144050AGW	0144050ATW	0144050ALW	0144050AOW
45mm	50mm	0145050AGW	0145050ATW	0145050ALW	0145050AOW
46mm	50mm	0146050AGW	0146050ATW	0146050ALW	0146050AOW
47mm	50mm	0147050AGW	0147050ATW	0147050ALW	0147050AOW
48mm	50mm	0148050AGW	0148050ATW	0148050ALW	0148050AOW
49mm	50mm	0149050AGW	0149050ATW	0149050ALW	0149050AOW
50mm	50mm	0150050AGW	0150050ATW	0150050ALW	0150050AOW
51mm	50mm	0151050AGW	0151050ATW	0151050ALW	0151050AOW
52mm	50mm	0152050AGW	0152050ATW	0152050ALW	0152050AOW
53mm	50mm	0153050AGW	0153050ATW	0153050ALW	0153050AOW
54mm	50mm	0154050AGW	0154050ATW	0154050ALW	0154050AOW
55mm	50mm	0155050AGW	0155050ATW	0155050ALW	0155050AOW
56mm	50mm	0156050AGW	0156050ATW	0156050ALW	0156050AOW
57mm	50mm	0157050AGW	0157050ATW	0157050ALW	0157050AOW
58mm	50mm	0158050AGW	0158050ATW	0158050ALW	0158050AOW
59mm	50mm	0159050AGW	0159050ATW	0159050ALW	0159050AOW
60mm	50mm	0160050AGW	0160050ATW	0160050ALW	0160050AOW
65mm	50mm	0165050AGW	0165050ATW	0165050ALW	0165050AOW
70mm	50mm	0170050AGW	0170050ATW	0170050ALW	0170050AOW
75mm	50mm	0175050AGW	0175050ATW	0175050ALW	0175050AOW
80mm	50mm	0180050AGW	0180050ATW	0180050ALW	0180050AOW
85mm	50mm	0185050AGW	0185050ATW	0185050ALW	0185050AOW
90mm	50mm	0190050AGW	0190050ATW	0190050ALW	0190050AOW
95mm	50mm	0195050AGW	0195050ATW	0195050ALW	0195050AOW

THE ANNULAR CUTTER DRILLS THE HOLE IN 3 STEPS :

- Step 1.** The pilot pin accurately centers the cutter over the area to be drilled.
- Step 2.** When drilling, the pilot pin retracts and allows the internal lubrication to reach the cutting teeth.
- Step 3.** When the hole is complete, the slug is automatically ejected from the cutter, leaving an accurate, finished hole.

Size ϕ Cutting depth		Article No.			
		WELDON			
		NATURAL	TiN	TiAlN	PLATING
18mm	75mm	0118075AGW	0118075ATW	0118075ALW	0118075AOW
19mm	75mm	0119075AGW	0119075ATW	0119075ALW	0119075AOW
20mm	75mm	0120075AGW	0120075ATW	0120075ALW	0120075AOW
21mm	75mm	0121075AGW	0121075ATW	0121075ALW	0121075AOW
22mm	75mm	0122075AGW	0122075ATW	0122075ALW	0122075AOW
23mm	75mm	0123075AGW	0123075ATW	0123075ALW	0123075AOW
24mm	75mm	0124075AGW	0124075ATW	0124075ALW	0124075AOW
25mm	75mm	0125075AGW	0125075ATW	0125075ALW	0125075AOW
26mm	75mm	0126075AGW	0126075ATW	0126075ALW	0126075AOW
27mm	75mm	0127075AGW	0127075ATW	0127075ALW	0127075AOW
28mm	75mm	0128075AGW	0128075ATW	0128075ALW	0128075AOW
29mm	75mm	0129075AGW	0129075ATW	0129075ALW	0129075AOW
30mm	75mm	0130075AGW	0130075ATW	0130075ALW	0130075AOW
31mm	75mm	0131075AGW	0131075ATW	0131075ALW	0131075AOW
32mm	75mm	0132075AGW	0132075ATW	0132075ALW	0132075AOW
33mm	75mm	0133075AGW	0133075ATW	0133075ALW	0133075AOW
34mm	75mm	0134075AGW	0134075ATW	0134075ALW	0134075AOW
35mm	75mm	0135075AGW	0135075ATW	0135075ALW	0135075AOW
36mm	75mm	0136075AGW	0136075ATW	0136075ALW	0136075AOW
37mm	75mm	0137075AGW	0137075ATW	0137075ALW	0137075AOW
38mm	75mm	0138075AGW	0138075ATW	0138075ALW	0138075AOW
39mm	75mm	0139075AGW	0139075ATW	0139075ALW	0139075AOW
40mm	75mm	0140075AGW	0140075ATW	0140075ALW	0140075AOW
41mm	75mm	0141075AGW	0141075ATW	0141075ALW	0141075AOW
42mm	75mm	0142075AGW	0142075ATW	0142075ALW	0142075AOW
43mm	75mm	0143075AGW	0143075ATW	0143075ALW	0143075AOW
44mm	75mm	0144075AGW	0144075ATW	0144075ALW	0144075AOW
45mm	75mm	0145075AGW	0145075ATW	0145075ALW	0145075AOW
46mm	75mm	0146075AGW	0146075ATW	0146075ALW	0146075AOW
47mm	75mm	0147075AGW	0147075ATW	0147075ALW	0147075AOW
48mm	75mm	0148075AGW	0148075ATW	0148075ALW	0148075AOW
49mm	75mm	0149075AGW	0149075ATW	0149075ALW	0149075AOW
50mm	75mm	0150075AGW	0150075ATW	0150075ALW	0150075AOW
51mm	75mm	0151075AGW	0151075ATW	0151075ALW	0151075AOW

ANNULAR HOLE CUTTERS



Size	Cutting depth	Article No.			
52mm	75mm	0152075AGW	0152075ATW	0152075ALW	0152075AOW
53mm	75mm	0153075AGW	0153075ATW	0153075ALW	0153075AOW
54mm	75mm	0154075AGW	0154075ATW	0154075ALW	0154075AOW
55mm	75mm	0155075AGW	0155075ATW	0155075ALW	0155075AOW
56mm	75mm	0156075AGW	0156075ATW	0156075ALW	0156075AOW
57mm	75mm	0157075AGW	0157075ATW	0157075ALW	0157075AOW
58mm	75mm	0158075AGW	0158075ATW	0158075ALW	0158075AOW
59mm	75mm	0159075AGW	0159075ATW	0159075ALW	0159075AOW
60mm	75mm	0160075AGW	0160075ATW	0160075ALW	0160075AOW
65mm	75mm	0165075AGW	0165075ATW	0165075ALW	0165075AOW
70mm	75mm	0170075AGW	0170075ATW	0170075ALW	0170075AOW
75mm	75mm	0175075AGW	0175075ATW	0175075ALW	0175075AOW
80mm	75mm	0180075AGW	0180075ATW	0180075ALW	0180075AOW
85mm	75mm	0185075AGW	0185075ATW	0185075ALW	0185075AOW
90mm	75mm	0190075AGW	0190075ATW	0190075ALW	0190075AOW
95mm	75mm	0195075AGW	0195075ATW	0195075ALW	0195075AOW

Material

China	European	American	Japanese	HRC
HSS6542	HSS	M2	SKH-51	63-65
HSS Co5	HSS-E	M35	SKH-55	64-66

HSS Co5 is a development of **HSS6542** and contains 5% cobalt which gives improved hardness, wear resistance and red hardness. It may be used when cutting higher strength materials.

Quality Signs

CBN Fully Ground Flute
Specific geometry of U-shaped recess
With 19mm(3/4") weldon shank.

Optimized cutting edge geometry
Optimized spiral-shaped guide chamfers

Application

- For use in magnetic-stand and pillar drilling machines with morse taper retainer.

Size	Cutting depth	Article No.			
12mm	25mm	0112025AGQ	0112025ATQ	0112025ALQ	0112025AOQ
12.5mm	25mm	0112525AGQ	0112525ATQ	0112525ALQ	0112525AOQ
13mm	25mm	0113025AGQ	0113025ATQ	0113025ALQ	0113025AOQ
13.5mm	25mm	0113525AGQ	0113525ATQ	0113525ALQ	0113525AOQ
14mm	25mm	0114025AGQ	0114025ATQ	0114025ALQ	0114025AOQ
15mm	25mm	0115025AGQ	0115025ATQ	0115025ALQ	0115025AOQ
16mm	25mm	0116025AGQ	0116025ATQ	0116025ALQ	0116025AOQ
17mm	25mm	0117025AGQ	0117025ATQ	0117025ALQ	0117025AOQ
17.5mm	25mm	0117525AGQ	0117525ATQ	0117525ALQ	0117525AOQ
18mm	25mm	0118025AGQ	0118025ATQ	0118025ALQ	0118025AOQ
19mm	25mm	0119025AGQ	0119025ATQ	0119025ALQ	0119025AOQ
20mm	25mm	0120025AGQ	0120025ATQ	0120025ALQ	0120025AOQ
21mm	25mm	0121025AGQ	0121025ATQ	0121025ALQ	0121025AOQ
22mm	25mm	0122025AGQ	0122025ATQ	0122025ALQ	0122025AOQ
23mm	25mm	0123025AGQ	0123025ATQ	0123025ALQ	0123025AOQ
24mm	25mm	0124025AGQ	0124025ATQ	0124025ALQ	0124025AOQ
25mm	25mm	0125025AGQ	0125025ATQ	0125025ALQ	0125025AOQ
26mm	25mm	0126025AGQ	0126025ATQ	0126025ALQ	0126025AOQ
27mm	25mm	0127025AGQ	0127025ATQ	0127025ALQ	0127025AOQ
28mm	25mm	0128025AGQ	0128025ATQ	0128025ALQ	0128025AOQ
29mm	25mm	0129025AGQ	0129025ATQ	0129025ALQ	0129025AOQ
30mm	25mm	0130025AGQ	0130025ATQ	0130025ALQ	0130025AOQ
31mm	25mm	0131025AGQ	0131025ATQ	0131025ALQ	0131025AOQ
32mm	25mm	0132025AGQ	0132025ATQ	0132025ALQ	0132025AOQ
33mm	25mm	0133025AGQ	0133025ATQ	0133025ALQ	0133025AOQ
34mm	25mm	0134025AGQ	0134025ATQ	0134025ALQ	0134025AOQ
35mm	25mm	0135025AGQ	0135025ATQ	0135025ALQ	0135025AOQ
36mm	25mm	0136025AGQ	0136025ATQ	0136025ALQ	0136025AOQ
37mm	25mm	0137025AGQ	0137025ATQ	0137025ALQ	0137025AOQ
38mm	25mm	0138025AGQ	0138025ATQ	0138025ALQ	0138025AOQ
39mm	25mm	0139025AGQ	0139025ATQ	0139025ALQ	0139025AOQ
40mm	25mm	0140025AGQ	0140025ATQ	0140025ALQ	0140025AOQ
41mm	25mm	0141025AGQ	0141025ATQ	0141025ALQ	0141025AOQ
42mm	25mm	0142025AGQ	0142025ATQ	0142025ALQ	0142025AOQ

ANNULAR HOLE CUTTERS

Size ϕ Cutting depth		Article No.			
		NATURAL	TIN	TiALN	PLATING
43mm	25mm	0143025AGQ	0143025ATQ	0143025ALQ	0143025AOQ
44mm	25mm	0144025AGQ	0144025ATQ	0144025ALQ	0144025AOQ
45mm	25mm	0145025AGQ	0145025ATQ	0145025ALQ	0145025AOQ
46mm	25mm	0146025AGQ	0146025ATQ	0146025ALQ	0146025AOQ
47mm	25mm	0147025AGQ	0147025ATQ	0147025ALQ	0147025AOQ
48mm	25mm	0148025AGQ	0148025ATQ	0148025ALQ	0148025AOQ
49mm	25mm	0149025AGQ	0149025ATQ	0149025ALQ	0149025AOQ
50mm	25mm	0150025AGQ	0150025ATQ	0150025ALQ	0150025AOQ
51mm	25mm	0151025AGQ	0151025ATQ	0151025ALQ	0151025AOQ
52mm	25mm	0152025AGQ	0152025ATQ	0152025ALQ	0152025AOQ
53mm	25mm	0153025AGQ	0153025ATQ	0153025ALQ	0153025AOQ
54mm	25mm	0154025AGQ	0154025ATQ	0154025ALQ	0154025AOQ
55mm	25mm	0155025AGQ	0155025ATQ	0155025ALQ	0155025AOQ
56mm	25mm	0156025AGQ	0156025ATQ	0156025ALQ	0156025AOQ
57mm	25mm	0157025AGQ	0157025ATQ	0157025ALQ	0157025AOQ
58mm	25mm	0158025AGQ	0158025ATQ	0158025ALQ	0158025AOQ
59mm	25mm	0159025AGQ	0159025ATQ	0159025ALQ	0159025AOQ
60mm	25mm	0160025AGQ	0160025ATQ	0160025ALQ	0160025AOQ
65mm	25mm	0165025AGQ	0165025ATQ	0165025ALQ	0165025AOQ
70mm	25mm	0170025AGQ	0170025ATQ	0170025ALQ	0170025AOQ
75mm	25mm	0175025AGQ	0175025ATQ	0175025ALQ	0175025AOQ
80mm	25mm	0180025AGQ	0180025ATQ	0180025ALQ	0180025AOQ
85mm	25mm	0185025AGQ	0185025ATQ	0185025ALQ	0185025AOQ
90mm	25mm	0190025AGQ	0190025ATQ	0190025ALQ	0190025AOQ
95mm	25mm	0195025AGQ	0195025ATQ	0195025ALQ	0195025AOQ

Size ϕ Cutting depth		Article No.			
		NATURAL	TIN	TiALN	PLATING
12mm	35mm	0112035AGQ	0112035ATQ	0112035ALQ	0112035AOQ
12.5mm	35mm	0112535AGQ	0112535ATQ	0112535ALQ	0112535AOQ
13mm	35mm	0113035AGQ	0113035ATQ	0113035ALQ	0113035AOQ
13.5mm	35mm	0113535AGQ	0113535ATQ	0113535ALQ	0113535AOQ
14mm	35mm	0114035AGQ	0114035ATQ	0114035ALQ	0114035AOQ
15mm	35mm	0115035AGQ	0115035ATQ	0115035ALQ	0115035AOQ
16mm	35mm	0116035AGQ	0116035ATQ	0116035ALQ	0116035AOQ
17mm	35mm	0117035AGQ	0117035ATQ	0117035ALQ	0117035AOQ
17.5mm	35mm	0117535AGQ	0117535ATQ	0117535ALQ	0117535AOQ
18mm	35mm	0118035AGQ	0118035ATQ	0118035ALQ	0118035AOQ
19mm	35mm	0119035AGQ	0119035ATQ	0119035ALQ	0119035AOQ
20mm	35mm	0120035AGQ	0120035ATQ	0120035ALQ	0120035AOQ
21mm	35mm	0121035AGQ	0121035ATQ	0121035ALQ	0121035AOQ
22mm	35mm	0122035AGQ	0122035ATQ	0122035ALQ	0122035AOQ
23mm	35mm	0123035AGQ	0123035ATQ	0123035ALQ	0123035AOQ
24mm	35mm	0124035AGQ	0124035ATQ	0124035ALQ	0124035AOQ
25mm	35mm	0125035AGQ	0125035ATQ	0125035ALQ	0125035AOQ
26mm	35mm	0126035AGQ	0126035ATQ	0126035ALQ	0126035AOQ
27mm	35mm	0127035AGQ	0127035ATQ	0127035ALQ	0127035AOQ
28mm	35mm	0128035AGQ	0128035ATQ	0128035ALQ	0128035AOQ
29mm	35mm	0129035AGQ	0129035ATQ	0129035ALQ	0129035AOQ
30mm	35mm	0130035AGQ	0130035ATQ	0130035ALQ	0130035AOQ
31mm	35mm	0131035AGQ	0131035ATQ	0131035ALQ	0131035AOQ
32mm	35mm	0132035AGQ	0132035ATQ	0132035ALQ	0132035AOQ
33mm	35mm	0133035AGQ	0133035ATQ	0133035ALQ	0133035AOQ
34mm	35mm	0134035AGQ	0134035ATQ	0134035ALQ	0134035AOQ
35mm	35mm	0135035AGQ	0135035ATQ	0135035ALQ	0135035AOQ
36mm	35mm	0136035AGQ	0136035ATQ	0136035ALQ	0136035AOQ
37mm	35mm	0137035AGQ	0137035ATQ	0137035ALQ	0137035AOQ
38mm	35mm	0138035AGQ	0138035ATQ	0138035ALQ	0138035AOQ
39mm	35mm	0139035AGQ	0139035ATQ	0139035ALQ	0139035AOQ
40mm	35mm	0140035AGQ	0140035ATQ	0140035ALQ	0140035AOQ
41mm	35mm	0141035AGQ	0141035ATQ	0141035ALQ	0141035AOQ
42mm	35mm	0142035AGQ	0142035ATQ	0142035ALQ	0142035AOQ

HSS AL Annular Cutters, with unique geometry type and random-space tips, provide clearly cutting, fast feed rate, less vibration, smooth hole surface and long tool life, highly effective for drilling. They are better and quicker than twist drills.

HSS AL Annular Cutters can be used on all kinds of magnetic drilling machines. They can be widely used in drilling steel, copper, aluminum, stainless steel and plastic, in either plate or pipe form.

The HSS AL Annular Cutters have gained huge popularity in the market. The entire range is available in various specifications that can be customized as per clients' requirements.

ANNULAR HOLE CUTTERS

Size ϕ Cutting depth		Article No.			
43mm	35mm	0143035AGQ	0143035ATQ	0143035ALQ	0143035AOQ
44mm	35mm	0144035AGQ	0144035ATQ	0144035ALQ	0144035AOQ
45mm	35mm	0145035AGQ	0145035ATQ	0145035ALQ	0145035AOQ
46mm	35mm	0146035AGQ	0146035ATQ	0146035ALQ	0146035AOQ
47mm	35mm	0147035AGQ	0147035ATQ	0147035ALQ	0147035AOQ
48mm	35mm	0148035AGQ	0148035ATQ	0148035ALQ	0148035AOQ
49mm	35mm	0149035AGQ	0149035ATQ	0149035ALQ	0149035AOQ
50mm	35mm	0150035AGQ	0150035ATQ	0150035ALQ	0150035AOQ
51mm	35mm	0151035AGQ	0151035ATQ	0151035ALQ	0151035AOQ
52mm	35mm	0152035AGQ	0152035ATQ	0152035ALQ	0152035AOQ
53mm	35mm	0153035AGQ	0153035ATQ	0153035ALQ	0153035AOQ
54mm	35mm	0154035AGQ	0154035ATQ	0154035ALQ	0154035AOQ
55mm	35mm	0155035AGQ	0155035ATQ	0155035ALQ	0155035AOQ
56mm	35mm	0156035AGQ	0156035ATQ	0156035ALQ	0156035AOQ
57mm	35mm	0157035AGQ	0157035ATQ	0157035ALQ	0157035AOQ
58mm	35mm	0158035AGQ	0158035ATQ	0158035ALQ	0158035AOQ
59mm	35mm	0159035AGQ	0159035ATQ	0159035ALQ	0159035AOQ
60mm	35mm	0160035AGQ	0160035ATQ	0160035ALQ	0160035AOQ
65mm	35mm	0165035AGQ	0165035ATQ	0165035ALQ	0165035AOQ
70mm	35mm	0170035AGQ	0170035ATQ	0170035ALQ	0170035AOQ
75mm	35mm	0175035AGQ	0175035ATQ	0175035ALQ	0175035AOQ
80mm	35mm	0180035AGQ	0180035ATQ	0180035ALQ	0180035AOQ
85mm	35mm	0185035AGQ	0185035ATQ	0185035ALQ	0185035AOQ
90mm	35mm	0190035AGQ	0190035ATQ	0190035ALQ	0190035AOQ
95mm	35mm	0195035AGQ	0195035ATQ	0195035ALQ	0195035AOQ

Additional surface hardening

- | | | |
|---------------------------------------|---|--|
| <p>HSS</p> <p>TIN</p> | <ul style="list-style-type: none"> • For hard materials • Extended service lives • Higher cutting speed • Higher tool life | <ul style="list-style-type: none"> • Temperature resistance up to 600 °C • Surface treatment ca. 2.500 HV • Layer Thickness up to 2 μm • Reduces cold weldings |
| <p>HSS</p> <p>TiAlN</p> | <ul style="list-style-type: none"> • For particularly hard materials • Outstanding service lives • Highest cutting speeds • Optimized tool life | <ul style="list-style-type: none"> • Surface treatment ca. 3.500 HV • Layer Thickness up to 4 μm • Reduces cold weldings • Temperature resistant up to 800°C, cooling not necessary |

Size ϕ Cutting depth		Article No.			
12mm	50mm	0112050AGQ	0112050ATQ	0112050ALQ	0112050AOQ
12.5mm	50mm	0112550AGQ	0112550ATQ	0112550ALQ	0112550AOQ
13mm	50mm	0113050AGQ	0113050ATQ	0113050ALQ	0113050AOQ
13.5mm	50mm	0113550AGQ	0113550ATQ	0113550ALQ	0113550AOQ
14mm	50mm	0114050AGQ	0114050ATQ	0114050ALQ	0114050AOQ
15mm	50mm	0115050AGQ	0115050ATQ	0115050ALQ	0115050AOQ
16mm	50mm	0116050AGQ	0116050ATQ	0116050ALQ	0116050AOQ
17mm	50mm	0117050AGQ	0117050ATQ	0117050ALQ	0117050AOQ
17.5mm	50mm	0117550AGQ	0117550ATQ	0117550ALQ	0117550AOQ
18mm	50mm	0118050AGQ	0118050ATQ	0118050ALQ	0118050AOQ
19mm	50mm	0119050AGQ	0119050ATQ	0119050ALQ	0119050AOQ
20mm	50mm	0120050AGQ	0120050ATQ	0120050ALQ	0120050AOQ
21mm	50mm	0121050AGQ	0121050ATQ	0121050ALQ	0121050AOQ
22mm	50mm	0122050AGQ	0122050ATQ	0122050ALQ	0122050AOQ
23mm	50mm	0123050AGQ	0123050ATQ	0123050ALQ	0123050AOQ
24mm	50mm	0124050AGQ	0124050ATQ	0124050ALQ	0124050AOQ
25mm	50mm	0125050AGQ	0125050ATQ	0125050ALQ	0125050AOQ
26mm	50mm	0126050AGQ	0126050ATQ	0126050ALQ	0126050AOQ
27mm	50mm	0127050AGQ	0127050ATQ	0127050ALQ	0127050AOQ
28mm	50mm	0128050AGQ	0128050ATQ	0128050ALQ	0128050AOQ
29mm	50mm	0129050AGQ	0129050ATQ	0129050ALQ	0129050AOQ
30mm	50mm	0130050AGQ	0130050ATQ	0130050ALQ	0130050AOQ
31mm	50mm	0131050AGQ	0131050ATQ	0131050ALQ	0131050AOQ
32mm	50mm	0132050AGQ	0132050ATQ	0132050ALQ	0132050AOQ
33mm	50mm	0133050AGQ	0133050ATQ	0133050ALQ	0133050AOQ
34mm	50mm	0134050AGQ	0134050ATQ	0134050ALQ	0134050AOQ
35mm	50mm	0135050AGQ	0135050ATQ	0135050ALQ	0135050AOQ
36mm	50mm	0136050AGQ	0136050ATQ	0136050ALQ	0136050AOQ
37mm	50mm	0137050AGQ	0137050ATQ	0137050ALQ	0137050AOQ
38mm	50mm	0138050AGQ	0138050ATQ	0138050ALQ	0138050AOQ
39mm	50mm	0139050AGQ	0139050ATQ	0139050ALQ	0139050AOQ
40mm	50mm	0140050AGQ	0140050ATQ	0140050ALQ	0140050AOQ
41mm	50mm	0141050AGQ	0141050ATQ	0141050ALQ	0141050AOQ
42mm	50mm	0142050AGQ	0142050ATQ	0142050ALQ	0142050AOQ

ANNULAR HOLE CUTTERS

Size ϕ Cutting depth		Article No.			
		NATURAL	TIN	TiALN	PLATING
43mm	50mm	0143050AGQ	0143050ATQ	0143050ALQ	0143050AOQ
44mm	50mm	0144050AGQ	0144050ATQ	0144050ALQ	0144050AOQ
45mm	50mm	0145050AGQ	0145050ATQ	0145050ALQ	0145050AOQ
46mm	50mm	0146050AGQ	0146050ATQ	0146050ALQ	0146050AOQ
47mm	50mm	0147050AGQ	0147050ATQ	0147050ALQ	0147050AOQ
48mm	50mm	0148050AGQ	0148050ATQ	0148050ALQ	0148050AOQ
49mm	50mm	0149050AGQ	0149050ATQ	0149050ALQ	0149050AOQ
50mm	50mm	0150050AGQ	0150050ATQ	0150050ALQ	0150050AOQ
51mm	50mm	0151050AGQ	0151050ATQ	0151050ALQ	0151050AOQ
52mm	50mm	0152050AGQ	0152050ATQ	0152050ALQ	0152050AOQ
53mm	50mm	0153050AGQ	0153050ATQ	0153050ALQ	0153050AOQ
54mm	50mm	0154050AGQ	0154050ATQ	0154050ALQ	0154050AOQ
55mm	50mm	0155050AGQ	0155050ATQ	0155050ALQ	0155050AOQ
56mm	50mm	0156050AGQ	0156050ATQ	0156050ALQ	0156050AOQ
57mm	50mm	0157050AGQ	0157050ATQ	0157050ALQ	0157050AOQ
58mm	50mm	0158050AGQ	0158050ATQ	0158050ALQ	0158050AOQ
59mm	50mm	0159050AGQ	0159050ATQ	0159050ALQ	0159050AOQ
60mm	50mm	0160050AGQ	0160050ATQ	0160050ALQ	0160050AOQ
65mm	50mm	0165050AGQ	0165050ATQ	0165050ALQ	0165050AOQ
70mm	50mm	0170050AGQ	0170050ATQ	0170050ALQ	0170050AOQ
75mm	50mm	0175050AGQ	0175050ATQ	0175050ALQ	0175050AOQ
80mm	50mm	0180050AGQ	0180050ATQ	0180050ALQ	0180050AOQ
85mm	50mm	0185050AGQ	0185050ATQ	0185050ALQ	0185050AOQ
90mm	50mm	0190050AGQ	0190050ATQ	0190050ALQ	0190050AOQ
95mm	50mm	0195050AGQ	0195050ATQ	0195050ALQ	0195050AOQ

Size ϕ Cutting depth		Article No.			
		NATURAL	TIN	TiALN	PLATING
18mm	75mm	0118075AGQ	0118075ATQ	0118075ALQ	0118075AOQ
19mm	75mm	0119075AGQ	0119075ATQ	0119075ALQ	0119075AOQ
20mm	75mm	0120075AGQ	0120075ATQ	0120075ALQ	0120075AOQ
21mm	75mm	0121075AGQ	0121075ATQ	0121075ALQ	0121075AOQ
22mm	75mm	0122075AGQ	0122075ATQ	0122075ALQ	0122075AOQ
23mm	75mm	0123075AGQ	0123075ATQ	0123075ALQ	0123075AOQ
24mm	75mm	0124075AGQ	0124075ATQ	0124075ALQ	0124075AOQ
25mm	75mm	0125075AGQ	0125075ATQ	0125075ALQ	0125075AOQ
26mm	75mm	0126075AGQ	0126075ATQ	0126075ALQ	0126075AOQ
27mm	75mm	0127075AGQ	0127075ATQ	0127075ALQ	0127075AOQ
28mm	75mm	0128075AGQ	0128075ATQ	0128075ALQ	0128075AOQ
29mm	75mm	0129075AGQ	0129075ATQ	0129075ALQ	0129075AOQ
30mm	75mm	0130075AGQ	0130075ATQ	0130075ALQ	0130075AOQ
31mm	75mm	0131075AGQ	0131075ATQ	0131075ALQ	0131075AOQ
32mm	75mm	0132075AGQ	0132075ATQ	0132075ALQ	0132075AOQ
33mm	75mm	0133075AGQ	0133075ATQ	0133075ALQ	0133075AOQ
34mm	75mm	0134075AGQ	0134075ATQ	0134075ALQ	0134075AOQ
35mm	75mm	0135075AGQ	0135075ATQ	0135075ALQ	0135075AOQ
36mm	75mm	0136075AGQ	0136075ATQ	0136075ALQ	0136075AOQ
37mm	75mm	0137075AGQ	0137075ATQ	0137075ALQ	0137075AOQ
38mm	75mm	0138075AGQ	0138075ATQ	0138075ALQ	0138075AOQ
39mm	75mm	0139075AGQ	0139075ATQ	0139075ALQ	0139075AOQ
40mm	75mm	0140075AGQ	0140075ATQ	0140075ALQ	0140075AOQ
41mm	75mm	0141075AGQ	0141075ATQ	0141075ALQ	0141075AOQ
42mm	75mm	0142075AGQ	0142075ATQ	0142075ALQ	0142075AOQ
43mm	75mm	0143075AGQ	0143075ATQ	0143075ALQ	0143075AOQ
44mm	75mm	0144075AGQ	0144075ATQ	0144075ALQ	0144075AOQ
45mm	75mm	0145075AGQ	0145075ATQ	0145075ALQ	0145075AOQ
46mm	75mm	0146075AGQ	0146075ATQ	0146075ALQ	0146075AOQ
47mm	75mm	0147075AGQ	0147075ATQ	0147075ALQ	0147075AOQ
48mm	75mm	0148075AGQ	0148075ATQ	0148075ALQ	0148075AOQ
49mm	75mm	0149075AGQ	0149075ATQ	0149075ALQ	0149075AOQ
50mm	75mm	0150075AGQ	0150075ATQ	0150075ALQ	0150075AOQ
51mm	75mm	0151075AGQ	0151075ATQ	0151075ALQ	0151075AOQ

Multiple cutting teeth cut only the material around the periphery of the hole, leaving a SHIWEI metal slug. In fact, the wall thickness of the cutter is approximately 6 mm (1/4"), meaning that no matter what size hole you are cutting, you are only removing a minimum amount of material around the edge of the hole.

Because the cutting surface of **Annular Cutters** is spread out over multiple cutting teeth, they remain sharper for a longer period of time and can create 5 to 10 times more holes than traditional twist drills. Hole cutting with **Annular Cutters** requires no pre-drilling or step drilling. Holes are smooth and burr-free. No reaming is required.

ANNULAR HOLE CUTTERS

Size ϕ		Cutting depth		Article No.		
ϕ SPECIFICATION	CUTTING DEPTH	NATURAL	TIN	TiALN	PLATING	
52mm	75mm	0152075AGQ	0152075ATQ	0152075ALQ	0152075AOQ	
53mm	75mm	0153075AGQ	0153075ATQ	0153075ALQ	0153075AOQ	
54mm	75mm	0154075AGQ	0154075ATQ	0154075ALQ	0154075AOQ	
55mm	75mm	0155075AGQ	0155075ATQ	0155075ALQ	0155075AOQ	
56mm	75mm	0156075AGQ	0156075ATQ	0156075ALQ	0156075AOQ	
57mm	75mm	0157075AGQ	0157075ATQ	0157075ALQ	0157075AOQ	
58mm	75mm	0158075AGQ	0158075ATQ	0158075ALQ	0158075AOQ	
59mm	75mm	0159075AGQ	0159075ATQ	0159075ALQ	0159075AOQ	
60mm	75mm	0160075AGQ	0160075ATQ	0160075ALQ	0160075AOQ	
65mm	75mm	0165075AGQ	0165075ATQ	0165075ALQ	0165075AOQ	
70mm	75mm	0170075AGQ	0170075ATQ	0170075ALQ	0170075AOQ	
75mm	75mm	0175075AGQ	0175075ATQ	0175075ALQ	0175075AOQ	
80mm	75mm	0180075AGQ	0180075ATQ	0180075ALQ	0180075AOQ	
85mm	75mm	0185075AGQ	0185075ATQ	0185075ALQ	0185075AOQ	
90mm	75mm	0190075AGQ	0190075ATQ	0190075ALQ	0190075AOQ	
95mm	75mm	0195075AGQ	0195075ATQ	0195075ALQ	0195075AOQ	

SHIWEI Annular Cutters are manufactured using superior-quality raw material. The cutters are appreciated worldwide for their optimum performance, durability and longer functional life. Being corrosion resistant, durable and non-abrasive, SHIWEI Annular Cutters are widely used in the construction, oil and shipping industry as well as in different other industries.

Annular cutting

Cutting metal with SHIWEI Annular Cutters is an efficient way to create holes of ϕ 12 mm (7/16") up to 130 mm (5") diameter. They come in cutting depths (Doc) 30 mm (1"), 55 mm (2"), 75 mm (3") and 110 (4") mm.

HSS-CO ANNULAR HOLE CUTTER , FULLY GROUND

- Perfect stable start
- Conical surface inside
- Precise center pilot fitting
- Ground clamp surface
- Faster, because every tooth cuts
- More accurate
- Greater drill depth
- Stronger, therefore less fragile
- Guaranteed slug ejection

HSS-Co 5%

Size ϕ		Cutting depth		Article No.		
ϕ SPECIFICATION	CUTTING DEPTH	NATURAL	TIN	TiALN	PLATING	
12mm	25mm	0112025BGW	0112025BTW	0112025BLW	0112025BOW	
12.5mm	25mm	0112525BGW	0112525BTW	0112525BLW	0112525BOW	
13mm	25mm	0113025BGW	0113025BTW	0113025BLW	0113025BOW	
13.5mm	25mm	0113525BGW	0113525BTW	0113525BLW	0113525BOW	
14mm	25mm	0114025BGW	0114025BTW	0114025BLW	0114025BOW	
15mm	25mm	0115025BGW	0115025BTW	0115025BLW	0115025BOW	
16mm	25mm	0116025BGW	0116025BTW	0116025BLW	0116025BOW	
17mm	25mm	0117025BGW	0117025BTW	0117025BLW	0117025BOW	
17.5mm	25mm	0117525BGW	0117525BTW	0117525BLW	0117525BOW	
18mm	25mm	0118025BGW	0118025BTW	0118025BLW	0118025BOW	
19mm	25mm	0119025BGW	0119025BTW	0119025BLW	0119025BOW	
20mm	25mm	0120025BGW	0120025BTW	0120025BLW	0120025BOW	
21mm	25mm	0121025BGW	0121025BTW	0121025BLW	0121025BOW	
22mm	25mm	0122025BGW	0122025BTW	0122025BLW	0122025BOW	
23mm	25mm	0123025BGW	0123025BTW	0123025BLW	0123025BOW	
24mm	25mm	0124025BGW	0124025BTW	0124025BLW	0124025BOW	
25mm	25mm	0125025BGW	0125025BTW	0125025BLW	0125025BOW	
26mm	25mm	0126025BGW	0126025BTW	0126025BLW	0126025BOW	
27mm	25mm	0127025BGW	0127025BTW	0127025BLW	0127025BOW	
28mm	25mm	0128025BGW	0128025BTW	0128025BLW	0128025BOW	
29mm	25mm	0129025BGW	0129025BTW	0129025BLW	0129025BOW	
30mm	25mm	0130025BGW	0130025BTW	0130025BLW	0130025BOW	
31mm	25mm	0131025BGW	0131025BTW	0131025BLW	0131025BOW	
32mm	25mm	0132025BGW	0132025BTW	0132025BLW	0132025BOW	
33mm	25mm	0133025BGW	0133025BTW	0133025BLW	0133025BOW	
34mm	25mm	0134025BGW	0134025BTW	0134025BLW	0134025BOW	

ANNULAR HOLE CUTTERS

Size ϕ Cutting depth		Article No.			
35mm	25mm	0135025BGW	0135025BTW	0135025BLW	0135025BOW
36mm	25mm	0136025BGW	0136025BTW	0136025BLW	0136025BOW
37mm	25mm	0137025BGW	0137025BTW	0137025BLW	0137025BOW
38mm	25mm	0138025BGW	0138025BTW	0138025BLW	0138025BOW
39mm	25mm	0139025BGW	0139025BTW	0139025BLW	0139025BOW
40mm	25mm	0140025BGW	0140025BTW	0140025BLW	0140025BOW
41mm	25mm	0141025BGW	0141025BTW	0141025BLW	0141025BOW
42mm	25mm	0142025BGW	0142025BTW	0142025BLW	0142025BOW
43mm	25mm	0143025BGW	0143025BTW	0143025BLW	0143025BOW
44mm	25mm	0144025BGW	0144025BTW	0144025BLW	0144025BOW
45mm	25mm	0145025BGW	0145025BTW	0145025BLW	0145025BOW
46mm	25mm	0146025BGW	0146025BTW	0146025BLW	0146025BOW
47mm	25mm	0147025BGW	0147025BTW	0147025BLW	0147025BOW
48mm	25mm	0148025BGW	0148025BTW	0148025BLW	0148025BOW
49mm	25mm	0149025BGW	0149025BTW	0149025BLW	0149025BOW
50mm	25mm	0150025BGW	0150025BTW	0150025BLW	0150025BOW
51mm	25mm	0151025BGW	0151025BTW	0151025BLW	0151025BOW
52mm	25mm	0152025BGW	0152025BTW	0152025BLW	0152025BOW
53mm	25mm	0153025BGW	0153025BTW	0153025BLW	0153025BOW
54mm	25mm	0154025BGW	0154025BTW	0154025BLW	0154025BOW
55mm	25mm	0155025BGW	0155025BTW	0155025BLW	0155025BOW
56mm	25mm	0156025BGW	0156025BTW	0156025BLW	0156025BOW
57mm	25mm	0157025BGW	0157025BTW	0157025BLW	0157025BOW
58mm	25mm	0158025BGW	0158025BTW	0158025BLW	0158025BOW
59mm	25mm	0159025BGW	0159025BTW	0159025BLW	0159025BOW
60mm	25mm	0160025BGW	0160025BTW	0160025BLW	0160025BOW
65mm	25mm	0165025BGW	0165025BTW	0165025BLW	0165025BOW
70mm	25mm	0170025BGW	0170025BTW	0170025BLW	0170025BOW
75mm	25mm	0175025BGW	0175025BTW	0175025BLW	0175025BOW
80mm	25mm	0180025BGW	0180025BTW	0180025BLW	0180025BOW
85mm	25mm	0185025BGW	0185025BTW	0185025BLW	0185025BOW
90mm	25mm	0190025BGW	0190025BTW	0190025BLW	0190025BOW
95mm	25mm	0195025BGW	0195025BTW	0195025BLW	0195025BOW

Size ϕ Cutting depth		Article No.			
12mm	35mm	0112035BGW	0112035BTW	0112035BLW	0112035BOW
12.5mm	35mm	0112535BGW	0112535BTW	0112535BLW	0112535BOW
13mm	35mm	0113035BGW	0113035BTW	0113035BLW	0113035BOW
13.5mm	35mm	0113535BGW	0113535BTW	0113535BLW	0113535BOW
14mm	35mm	0114035BGW	0114035BTW	0114035BLW	0114035BOW
15mm	35mm	0115035BGW	0115035BTW	0115035BLW	0115035BOW
16mm	35mm	0116035BGW	0116035BTW	0116035BLW	0116035BOW
17mm	35mm	0117035BGW	0117035BTW	0117035BLW	0117035BOW
17.5mm	35mm	0117535BGW	0117535BTW	0117535BLW	0117535BOW
18mm	35mm	0118035BGW	0118035BTW	0118035BLW	0118035BOW
19mm	35mm	0119035BGW	0119035BTW	0119035BLW	0119035BOW
20mm	35mm	0120035BGW	0120035BTW	0120035BLW	0120035BOW
21mm	35mm	0121035BGW	0121035BTW	0121035BLW	0121035BOW
22mm	35mm	0122035BGW	0122035BTW	0122035BLW	0122035BOW
23mm	35mm	0123035BGW	0123035BTW	0123035BLW	0123035BOW
24mm	35mm	0124035BGW	0124035BTW	0124035BLW	0124035BOW
25mm	35mm	0125035BGW	0125035BTW	0125035BLW	0125035BOW
26mm	35mm	0126035BGW	0126035BTW	0126035BLW	0126035BOW
27mm	35mm	0127035BGW	0127035BTW	0127035BLW	0127035BOW
28mm	35mm	0128035BGW	0128035BTW	0128035BLW	0128035BOW
29mm	35mm	0129035BGW	0129035BTW	0129035BLW	0129035BOW
30mm	35mm	0130035BGW	0130035BTW	0130035BLW	0130035BOW
31mm	35mm	0131035BGW	0131035BTW	0131035BLW	0131035BOW
32mm	35mm	0132035BGW	0132035BTW	0132035BLW	0132035BOW
33mm	35mm	0133035BGW	0133035BTW	0133035BLW	0133035BOW
34mm	35mm	0134035BGW	0134035BTW	0134035BLW	0134035BOW
35mm	35mm	0135035BGW	0135035BTW	0135035BLW	0135035BOW
36mm	35mm	0136035BGW	0136035BTW	0136035BLW	0136035BOW
37mm	35mm	0137035BGW	0137035BTW	0137035BLW	0137035BOW
38mm	35mm	0138035BGW	0138035BTW	0138035BLW	0138035BOW
39mm	35mm	0139035BGW	0139035BTW	0139035BLW	0139035BOW
40mm	35mm	0140035BGW	0140035BTW	0140035BLW	0140035BOW
41mm	35mm	0141035BGW	0141035BTW	0141035BLW	0141035BOW
42mm	35mm	0142035BGW	0142035BTW	0142035BLW	0142035BOW

ANNULAR HOLE CUTTERS

Size ϕ	Cutting depth	Article No.			
43mm	35mm	0143035BGW	0143035BTW	0143035BLW	0143035BOW
44mm	35mm	0144035BGW	0144035BTW	0144035BLW	0144035BOW
45mm	35mm	0145035BGW	0145035BTW	0145035BLW	0145035BOW
46mm	35mm	0146035BGW	0146035BTW	0146035BLW	0146035BOW
47mm	35mm	0147035BGW	0147035BTW	0147035BLW	0147035BOW
48mm	35mm	0148035BGW	0148035BTW	0148035BLW	0148035BOW
49mm	35mm	0149035BGW	0149035BTW	0149035BLW	0149035BOW
50mm	35mm	0150035BGW	0150035BTW	0150035BLW	0150035BOW
51mm	35mm	0151035BGW	0151035BTW	0151035BLW	0151035BOW
52mm	35mm	0152035BGW	0152035BTW	0152035BLW	0152035BOW
53mm	35mm	0153035BGW	0153035BTW	0153035BLW	0153035BOW
54mm	35mm	0154035BGW	0154035BTW	0154035BLW	0154035BOW
55mm	35mm	0155035BGW	0155035BTW	0155035BLW	0155035BOW
56mm	35mm	0156035BGW	0156035BTW	0156035BLW	0156035BOW
57mm	35mm	0157035BGW	0157035BTW	0157035BLW	0157035BOW
58mm	35mm	0158035BGW	0158035BTW	0158035BLW	0158035BOW
59mm	35mm	0159035BGW	0159035BTW	0159035BLW	0159035BOW
60mm	35mm	0160035BGW	0160035BTW	0160035BLW	0160035BOW
65mm	35mm	0165035BGW	0165035BTW	0165035BLW	0165035BOW
70mm	35mm	0170035BGW	0170035BTW	0170035BLW	0170035BOW
75mm	35mm	0175035BGW	0175035BTW	0175035BLW	0175035BOW
80mm	35mm	0180035BGW	0180035BTW	0180035BLW	0180035BOW
85mm	35mm	0185035BGW	0185035BTW	0185035BLW	0185035BOW
90mm	35mm	0190035BGW	0190035BTW	0190035BLW	0190035BOW
95mm	35mm	0195035BGW	0195035BTW	0195035BLW	0195035BOW

Size ϕ	Cutting depth	Article No.			
12mm	50mm	0112050BGW	0112050BTW	0112050BLW	0112050BOW
12.5mm	50mm	0112550BGW	0112550BTW	0112550BLW	0112550BOW
13mm	50mm	0113050BGW	0113050BTW	0113050BLW	0113050BOW
13.5mm	50mm	0113550BGW	0113550BTW	0113550BLW	0113550BOW
14mm	50mm	0114050BGW	0114050BTW	0114050BLW	0114050BOW
15mm	50mm	0115050BGW	0115050BTW	0115050BLW	0115050BOW
16mm	50mm	0116050BGW	0116050BTW	0116050BLW	0116050BOW
17mm	50mm	0117050BGW	0117050BTW	0117050BLW	0117050BOW
17.5mm	50mm	0117550BGW	0117550BTW	0117550BLW	0117550BOW
18mm	50mm	0118050BGW	0118050BTW	0118050BLW	0118050BOW
19mm	50mm	0119050BGW	0119050BTW	0119050BLW	0119050BOW
20mm	50mm	0120050BGW	0120050BTW	0120050BLW	0120050BOW
21mm	50mm	0121050BGW	0121050BTW	0121050BLW	0121050BOW
22mm	50mm	0122050BGW	0122050BTW	0122050BLW	0122050BOW
23mm	50mm	0123050BGW	0123050BTW	0123050BLW	0123050BOW
24mm	50mm	0124050BGW	0124050BTW	0124050BLW	0124050BOW
25mm	50mm	0125050BGW	0125050BTW	0125050BLW	0125050BOW
26mm	50mm	0126050BGW	0126050BTW	0126050BLW	0126050BOW
27mm	50mm	0127050BGW	0127050BTW	0127050BLW	0127050BOW
28mm	50mm	0128050BGW	0128050BTW	0128050BLW	0128050BOW
29mm	50mm	0129050BGW	0129050BTW	0129050BLW	0129050BOW
30mm	50mm	0130050BGW	0130050BTW	0130050BLW	0130050BOW
31mm	50mm	0131050BGW	0131050BTW	0131050BLW	0131050BOW
32mm	50mm	0132050BGW	0132050BTW	0132050BLW	0132050BOW
33mm	50mm	0133050BGW	0133050BTW	0133050BLW	0133050BOW
34mm	50mm	0134050BGW	0134050BTW	0134050BLW	0134050BOW
35mm	50mm	0135050BGW	0135050BTW	0135050BLW	0135050BOW
36mm	50mm	0136050BGW	0136050BTW	0136050BLW	0136050BOW
37mm	50mm	0137050BGW	0137050BTW	0137050BLW	0137050BOW
38mm	50mm	0138050BGW	0138050BTW	0138050BLW	0138050BOW
39mm	50mm	0139050BGW	0139050BTW	0139050BLW	0139050BOW
40mm	50mm	0140050BGW	0140050BTW	0140050BLW	0140050BOW
41mm	50mm	0141050BGW	0141050BTW	0141050BLW	0141050BOW
42mm	50mm	0142050BGW	0142050BTW	0142050BLW	0142050BOW

SHIWEI HSS-Co Annular Cutters are made of Molybdenum-Chromium-Vanadium-Tungsten alloy High Speed Steel with an additional 8% Cobalt (M42).

The HSS-Co Annular Cutter is specifically designed to remain cool when cutting holes. All flutes are fully ground, resulting in super-fast feed rates and smooth holes in hard materials, providing better chip clearance and higher cutting performances.

ANNULAR HOLE CUTTERS

Size ϕ	Cutting depth	Article No.			
43mm	50mm	0143050BGW	0143050BTW	0143050BLW	0143050BOW
44mm	50mm	0144050BGW	0144050BTW	0144050BLW	0144050BOW
45mm	50mm	0145050BGW	0145050BTW	0145050BLW	0145050BOW
46mm	50mm	0146050BGW	0146050BTW	0146050BLW	0146050BOW
47mm	50mm	0147050BGW	0147050BTW	0147050BLW	0147050BOW
48mm	50mm	0148050BGW	0148050BTW	0148050BLW	0148050BOW
49mm	50mm	0149050BGW	0149050BTW	0149050BLW	0149050BOW
50mm	50mm	0150050BGW	0150050BTW	0150050BLW	0150050BOW
51mm	50mm	0151050BGW	0151050BTW	0151050BLW	0151050BOW
52mm	50mm	0152050BGW	0152050BTW	0152050BLW	0152050BOW
53mm	50mm	0153050BGW	0153050BTW	0153050BLW	0153050BOW
54mm	50mm	0154050BGW	0154050BTW	0154050BLW	0154050BOW
55mm	50mm	0155050BGW	0155050BTW	0155050BLW	0155050BOW
56mm	50mm	0156050BGW	0156050BTW	0156050BLW	0156050BOW
57mm	50mm	0157050BGW	0157050BTW	0157050BLW	0157050BOW
58mm	50mm	0158050BGW	0158050BTW	0158050BLW	0158050BOW
59mm	50mm	0159050BGW	0159050BTW	0159050BLW	0159050BOW
60mm	50mm	0160050BGW	0160050BTW	0160050BLW	0160050BOW
65mm	50mm	0165050BGW	0165050BTW	0165050BLW	0165050BOW
70mm	50mm	0170050BGW	0170050BTW	0170050BLW	0170050BOW
75mm	50mm	0175050BGW	0175050BTW	0175050BLW	0175050BOW
80mm	50mm	0180050BGW	0180050BTW	0180050BLW	0180050BOW
85mm	50mm	0185050BGW	0185050BTW	0185050BLW	0185050BOW
90mm	50mm	0190050BGW	0190050BTW	0190050BLW	0190050BOW
95mm	50mm	0195050BGW	0195050BTW	0195050BLW	0195050BOW

Size ϕ	Cutting depth	Article No.			
18mm	75mm	0118075BGW	0118075BTW	0118075BLW	0118075BOW
19mm	75mm	0119075BGW	0119075BTW	0119075BLW	0119075BOW
20mm	75mm	0120075BGW	0120075BTW	0120075BLW	0120075BOW
21mm	75mm	0121075BGW	0121075BTW	0121075BLW	0121075BOW
22mm	75mm	0122075BGW	0122075BTW	0122075BLW	0122075BOW
23mm	75mm	0123075BGW	0123075BTW	0123075BLW	0123075BOW
24mm	75mm	0124075BGW	0124075BTW	0124075BLW	0124075BOW
25mm	75mm	0125075BGW	0125075BTW	0125075BLW	0125075BOW
26mm	75mm	0126075BGW	0126075BTW	0126075BLW	0126075BOW
27mm	75mm	0127075BGW	0127075BTW	0127075BLW	0127075BOW
28mm	75mm	0128075BGW	0128075BTW	0128075BLW	0128075BOW
29mm	75mm	0129075BGW	0129075BTW	0129075BLW	0129075BOW
30mm	75mm	0130075BGW	0130075BTW	0130075BLW	0130075BOW
31mm	75mm	0131075BGW	0131075BTW	0131075BLW	0131075BOW
32mm	75mm	0132075BGW	0132075BTW	0132075BLW	0132075BOW
33mm	75mm	0133075BGW	0133075BTW	0133075BLW	0133075BOW
34mm	75mm	0134075BGW	0134075BTW	0134075BLW	0134075BOW
35mm	75mm	0135075BGW	0135075BTW	0135075BLW	0135075BOW
36mm	75mm	0136075BGW	0136075BTW	0136075BLW	0136075BOW
37mm	75mm	0137075BGW	0137075BTW	0137075BLW	0137075BOW
38mm	75mm	0138075BGW	0138075BTW	0138075BLW	0138075BOW
39mm	75mm	0139075BGW	0139075BTW	0139075BLW	0139075BOW
40mm	75mm	0140075BGW	0140075BTW	0140075BLW	0140075BOW
41mm	75mm	0141075BGW	0141075BTW	0141075BLW	0141075BOW
42mm	75mm	0142075BGW	0142075BTW	0142075BLW	0142075BOW
43mm	75mm	0143075BGW	0143075BTW	0143075BLW	0143075BOW
44mm	75mm	0144075BGW	0144075BTW	0144075BLW	0144075BOW
45mm	75mm	0145075BGW	0145075BTW	0145075BLW	0145075BOW
46mm	75mm	0146075BGW	0146075BTW	0146075BLW	0146075BOW
47mm	75mm	0147075BGW	0147075BTW	0147075BLW	0147075BOW
48mm	75mm	0148075BGW	0148075BTW	0148075BLW	0148075BOW
49mm	75mm	0149075BGW	0149075BTW	0149075BLW	0149075BOW
50mm	75mm	0150075BGW	0150075BTW	0150075BLW	0150075BOW
51mm	75mm	0151075BGW	0151075BTW	0151075BLW	0151075BOW

M35 is a Molybdenum-Chromium-Vanadium-Tungsten High Speed Steel alloy with an additional 5% Cobalt.

The M35 HSS-Co Annular Cutter is widely used in the metalworking industry for its superior red hardness compared to more conventional high speed steels. This will lead to shorter cycle times in production environments due to higher cutting speeds.

ANNULAR HOLE CUTTERS



Size ϕ	Cutting depth	Article No.			
52mm	75mm	0152075BGW	0152075BTW	0152075BLW	0152075BOW
53mm	75mm	0153075BGW	0153075BTW	0153075BLW	0153075BOW
54mm	75mm	0154075BGW	0154075BTW	0154075BLW	0154075BOW
55mm	75mm	0155075BGW	0155075BTW	0155075BLW	0155075BOW
56mm	75mm	0156075BGW	0156075BTW	0156075BLW	0156075BOW
57mm	75mm	0157075BGW	0157075BTW	0157075BLW	0157075BOW
58mm	75mm	0158075BGW	0158075BTW	0158075BLW	0158075BOW
59mm	75mm	0159075BGW	0159075BTW	0159075BLW	0159075BOW
60mm	75mm	0160075BGW	0160075BTW	0160075BLW	0160075BOW
65mm	75mm	0165075BGW	0165075BTW	0165075BLW	0165075BOW
70mm	75mm	0170075BGW	0170075BTW	0170075BLW	0170075BOW
75mm	75mm	0175075BGW	0175075BTW	0175075BLW	0175075BOW
80mm	75mm	0180075BGW	0180075BTW	0180075BLW	0180075BOW
85mm	75mm	0185075BGW	0185075BTW	0185075BLW	0185075BOW
90mm	75mm	0190075BGW	0190075BTW	0190075BLW	0190075BOW
95mm	75mm	0195075BGW	0195075BTW	0195075BLW	0195075BOW

- For use in magnetic-stand and pillar drilling machines with morse taper retainer.
- HSS AL Annular Hole cutter is suitable for steel (such as T-brackets, large sheets), cast iron, non-ferrous and light metals.
- HSS-Co5 Annular Hole cutter is suitable for working with unalloyed and alloyed steel (up to a strength of 1200 N/mm²), hot and cold-working steel and also for reinforced and case-hardened steel.

Size ϕ	Cutting depth	Article No.			
12mm	25mm	0112025BGQ	0112025BTQ	0112025BLQ	0112025BOQ
12.5mm	25mm	0112525BGQ	0112525BTQ	0112525BLQ	0112525BOQ
13mm	25mm	0113025BGQ	0113025BTQ	0113025BLQ	0113025BOQ
13.5mm	25mm	0113525BGQ	0113525BTQ	0113525BLQ	0113525BOQ
14mm	25mm	0114025BGQ	0114025BTQ	0114025BLQ	0114025BOQ
15mm	25mm	0115025BGQ	0115025BTQ	0115025BLQ	0115025BOQ
16mm	25mm	0116025BGQ	0116025BTQ	0116025BLQ	0116025BOQ
17mm	25mm	0117025BGQ	0117025BTQ	0117025BLQ	0117025BOQ
17.5mm	25mm	0117525BGQ	0117525BTQ	0117525BLQ	0117525BOQ
18mm	25mm	0118025BGQ	0118025BTQ	0118025BLQ	0118025BOQ
19mm	25mm	0119025BGQ	0119025BTQ	0119025BLQ	0119025BOQ
20mm	25mm	0120025BGQ	0120025BTQ	0120025BLQ	0120025BOQ
21mm	25mm	0121025BGQ	0121025BTQ	0121025BLQ	0121025BOQ
22mm	25mm	0122025BGQ	0122025BTQ	0122025BLQ	0122025BOQ
23mm	25mm	0123025BGQ	0123025BTQ	0123025BLQ	0123025BOQ
24mm	25mm	0124025BGQ	0124025BTQ	0124025BLQ	0124025BOQ
25mm	25mm	0125025BGQ	0125025BTQ	0125025BLQ	0125025BOQ
26mm	25mm	0126025BGQ	0126025BTQ	0126025BLQ	0126025BOQ
27mm	25mm	0127025BGQ	0127025BTQ	0127025BLQ	0127025BOQ
28mm	25mm	0128025BGQ	0128025BTQ	0128025BLQ	0128025BOQ
29mm	25mm	0129025BGQ	0129025BTQ	0129025BLQ	0129025BOQ
30mm	25mm	0130025BGQ	0130025BTQ	0130025BLQ	0130025BOQ
31mm	25mm	0131025BGQ	0131025BTQ	0131025BLQ	0131025BOQ
32mm	25mm	0132025BGQ	0132025BTQ	0132025BLQ	0132025BOQ
33mm	25mm	0133025BGQ	0133025BTQ	0133025BLQ	0133025BOQ
34mm	25mm	0134025BGQ	0134025BTQ	0134025BLQ	0134025BOQ
35mm	25mm	0135025BGQ	0135025BTQ	0135025BLQ	0135025BOQ
36mm	25mm	0136025BGQ	0136025BTQ	0136025BLQ	0136025BOQ
37mm	25mm	0137025BGQ	0137025BTQ	0137025BLQ	0137025BOQ
38mm	25mm	0138025BGQ	0138025BTQ	0138025BLQ	0138025BOQ
39mm	25mm	0139025BGQ	0139025BTQ	0139025BLQ	0139025BOQ
40mm	25mm	0140025BGQ	0140025BTQ	0140025BLQ	0140025BOQ
41mm	25mm	0141025BGQ	0141025BTQ	0141025BLQ	0141025BOQ
42mm	25mm	0142025BGQ	0142025BTQ	0142025BLQ	0142025BOQ

ANNULAR HOLE CUTTERS

Size ϕ Cutting depth		Article No.			
43mm	25mm	0143025BGQ	0143025BTQ	0143025BLQ	0143025BOQ
44mm	25mm	0144025BGQ	0144025BTQ	0144025BLQ	0144025BOQ
45mm	25mm	0145025BGQ	0145025BTQ	0145025BLQ	0145025BOQ
46mm	25mm	0146025BGQ	0146025BTQ	0146025BLQ	0146025BOQ
47mm	25mm	0147025BGQ	0147025BTQ	0147025BLQ	0147025BOQ
48mm	25mm	0148025BGQ	0148025BTQ	0148025BLQ	0148025BOQ
49mm	25mm	0149025BGQ	0149025BTQ	0149025BLQ	0149025BOQ
50mm	25mm	0150025BGQ	0150025BTQ	0150025BLQ	0150025BOQ
51mm	25mm	0151025BGQ	0151025BTQ	0151025BLQ	0151025BOQ
52mm	25mm	0152025BGQ	0152025BTQ	0152025BLQ	0152025BOQ
53mm	25mm	0153025BGQ	0153025BTQ	0153025BLQ	0153025BOQ
54mm	25mm	0154025BGQ	0154025BTQ	0154025BLQ	0154025BOQ
55mm	25mm	0155025BGQ	0155025BTQ	0155025BLQ	0155025BOQ
56mm	25mm	0156025BGQ	0156025BTQ	0156025BLQ	0156025BOQ
57mm	25mm	0157025BGQ	0157025BTQ	0157025BLQ	0157025BOQ
58mm	25mm	0158025BGQ	0158025BTQ	0158025BLQ	0158025BOQ
59mm	25mm	0159025BGQ	0159025BTQ	0159025BLQ	0159025BOQ
60mm	25mm	0160025BGQ	0160025BTQ	0160025BLQ	0160025BOQ
65mm	25mm	0165025BGQ	0165025BTQ	0165025BLQ	0165025BOQ
70mm	25mm	0170025BGQ	0170025BTQ	0170025BLQ	0170025BOQ
75mm	25mm	0175025BGQ	0175025BTQ	0175025BLQ	0175025BOQ
80mm	25mm	0180025BGQ	0180025BTQ	0180025BLQ	0180025BOQ
85mm	25mm	0185025BGQ	0185025BTQ	0185025BLQ	0185025BOQ
90mm	25mm	0190025BGQ	0190025BTQ	0190025BLQ	0190025BOQ
95mm	25mm	0195025BGQ	0195025BTQ	0195025BLQ	0195025BOQ

Size ϕ Cutting depth		Article No.			
12mm	35mm	0112035BGQ	0112035BTQ	0112035BLQ	0112035BOQ
12.5mm	35mm	0112535BGQ	0112535BTQ	0112535BLQ	0112535BOQ
13mm	35mm	0113035BGQ	0113035BTQ	0113035BLQ	0113035BOQ
13.5mm	35mm	0113535BGQ	0113535BTQ	0113535BLQ	0113535BOQ
14mm	35mm	0114035BGQ	0114035BTQ	0114035BLQ	0114035BOQ
15mm	35mm	0115035BGQ	0115035BTQ	0115035BLQ	0115035BOQ
16mm	35mm	0116035BGQ	0116035BTQ	0116035BLQ	0116035BOQ
17mm	35mm	0117035BGQ	0117035BTQ	0117035BLQ	0117035BOQ
17.5mm	35mm	0117535BGQ	0117535BTQ	0117535BLQ	0117535BOQ
18mm	35mm	0118035BGQ	0118035BTQ	0118035BLQ	0118035BOQ
19mm	35mm	0119035BGQ	0119035BTQ	0119035BLQ	0119035BOQ
20mm	35mm	0120035BGQ	0120035BTQ	0120035BLQ	0120035BOQ
21mm	35mm	0121035BGQ	0121035BTQ	0121035BLQ	0121035BOQ
22mm	35mm	0122035BGQ	0122035BTQ	0122035BLQ	0122035BOQ
23mm	35mm	0123035BGQ	0123035BTQ	0123035BLQ	0123035BOQ
24mm	35mm	0124035BGQ	0124035BTQ	0124035BLQ	0124035BOQ
25mm	35mm	0125035BGQ	0125035BTQ	0125035BLQ	0125035BOQ
26mm	35mm	0126035BGQ	0126035BTQ	0126035BLQ	0126035BOQ
27mm	35mm	0127035BGQ	0127035BTQ	0127035BLQ	0127035BOQ
28mm	35mm	0128035BGQ	0128035BTQ	0128035BLQ	0128035BOQ
29mm	35mm	0129035BGQ	0129035BTQ	0129035BLQ	0129035BOQ
30mm	35mm	0130035BGQ	0130035BTQ	0130035BLQ	0130035BOQ
31mm	35mm	0131035BGQ	0131035BTQ	0131035BLQ	0131035BOQ
32mm	35mm	0132035BGQ	0132035BTQ	0132035BLQ	0132035BOQ
33mm	35mm	0133035BGQ	0133035BTQ	0133035BLQ	0133035BOQ
34mm	35mm	0134035BGQ	0134035BTQ	0134035BLQ	0134035BOQ
35mm	35mm	0135035BGQ	0135035BTQ	0135035BLQ	0135035BOQ
36mm	35mm	0136035BGQ	0136035BTQ	0136035BLQ	0136035BOQ
37mm	35mm	0137035BGQ	0137035BTQ	0137035BLQ	0137035BOQ
38mm	35mm	0138035BGQ	0138035BTQ	0138035BLQ	0138035BOQ
39mm	35mm	0139035BGQ	0139035BTQ	0139035BLQ	0139035BOQ
40mm	35mm	0140035BGQ	0140035BTQ	0140035BLQ	0140035BOQ
41mm	35mm	0141035BGQ	0141035BTQ	0141035BLQ	0141035BOQ
42mm	35mm	0142035BGQ	0142035BTQ	0142035BLQ	0142035BOQ

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Size ϕ Cutting depth		Article No.			
		NATURAL	TIN	TiALN	PLATING
43mm	35mm	0143035BGQ	0143035BTQ	0143035BLQ	0143035BOQ
44mm	35mm	0144035BGQ	0144035BTQ	0144035BLQ	0144035BOQ
45mm	35mm	0145035BGQ	0145035BTQ	0145035BLQ	0145035BOQ
46mm	35mm	0146035BGQ	0146035BTQ	0146035BLQ	0146035BOQ
47mm	35mm	0147035BGQ	0147035BTQ	0147035BLQ	0147035BOQ
48mm	35mm	0148035BGQ	0148035BTQ	0148035BLQ	0148035BOQ
49mm	35mm	0149035BGQ	0149035BTQ	0149035BLQ	0149035BOQ
50mm	35mm	0150035BGQ	0150035BTQ	0150035BLQ	0150035BOQ
51mm	35mm	0151035BGQ	0151035BTQ	0151035BLQ	0151035BOQ
52mm	35mm	0152035BGQ	0152035BTQ	0152035BLQ	0152035BOQ
53mm	35mm	0153035BGQ	0153035BTQ	0153035BLQ	0153035BOQ
54mm	35mm	0154035BGQ	0154035BTQ	0154035BLQ	0154035BOQ
55mm	35mm	0155035BGQ	0155035BTQ	0155035BLQ	0155035BOQ
56mm	35mm	0156035BGQ	0156035BTQ	0156035BLQ	0156035BOQ
57mm	35mm	0157035BGQ	0157035BTQ	0157035BLQ	0157035BOQ
58mm	35mm	0158035BGQ	0158035BTQ	0158035BLQ	0158035BOQ
59mm	35mm	0159035BGQ	0159035BTQ	0159035BLQ	0159035BOQ
60mm	35mm	0160035BGQ	0160035BTQ	0160035BLQ	0160035BOQ
65mm	35mm	0165035BGQ	0165035BTQ	0165035BLQ	0165035BOQ
70mm	35mm	0170035BGQ	0170035BTQ	0170035BLQ	0170035BOQ
75mm	35mm	0175035BGQ	0175035BTQ	0175035BLQ	0175035BOQ
80mm	35mm	0180035BGQ	0180035BTQ	0180035BLQ	0180035BOQ
85mm	35mm	0185035BGQ	0185035BTQ	0185035BLQ	0185035BOQ
90mm	35mm	0190035BGQ	0190035BTQ	0190035BLQ	0190035BOQ
95mm	35mm	0195035BGQ	0195035BTQ	0195035BLQ	0195035BOQ

Size ϕ Cutting depth		Article No.			
		NATURAL	TIN	TiALN	PLATING
12mm	50mm	0112050BGQ	0112050BTQ	0112050BLQ	0112050BOQ
12.5mm	50mm	0112550BGQ	0112550BTQ	0112550BLQ	0112550BOQ
13mm	50mm	0113050BGQ	0113050BTQ	0113050BLQ	0113050BOQ
13.5mm	50mm	0113550BGQ	0113550BTQ	0113550BLQ	0113550BOQ
14mm	50mm	0114050BGQ	0114050BTQ	0114050BLQ	0114050BOQ
15mm	50mm	0115050BGQ	0115050BTQ	0115050BLQ	0115050BOQ
16mm	50mm	0116050BGQ	0116050BTQ	0116050BLQ	0116050BOQ
17mm	50mm	0117050BGQ	0117050BTQ	0117050BLQ	0117050BOQ
17.5mm	50mm	0117550BGQ	0117550BTQ	0117550BLQ	0117550BOQ
18mm	50mm	0118050BGQ	0118050BTQ	0118050BLQ	0118050BOQ
19mm	50mm	0119050BGQ	0119050BTQ	0119050BLQ	0119050BOQ
20mm	50mm	0120050BGQ	0120050BTQ	0120050BLQ	0120050BOQ
21mm	50mm	0121050BGQ	0121050BTQ	0121050BLQ	0121050BOQ
22mm	50mm	0122050BGQ	0122050BTQ	0122050BLQ	0122050BOQ
23mm	50mm	0123050BGQ	0123050BTQ	0123050BLQ	0123050BOQ
24mm	50mm	0124050BGQ	0124050BTQ	0124050BLQ	0124050BOQ
25mm	50mm	0125050BGQ	0125050BTQ	0125050BLQ	0125050BOQ
26mm	50mm	0126050BGQ	0126050BTQ	0126050BLQ	0126050BOQ
27mm	50mm	0127050BGQ	0127050BTQ	0127050BLQ	0127050BOQ
28mm	50mm	0128050BGQ	0128050BTQ	0128050BLQ	0128050BOQ
29mm	50mm	0129050BGQ	0129050BTQ	0129050BLQ	0129050BOQ
30mm	50mm	0130050BGQ	0130050BTQ	0130050BLQ	0130050BOQ
31mm	50mm	0131050BGQ	0131050BTQ	0131050BLQ	0131050BOQ
32mm	50mm	0132050BGQ	0132050BTQ	0132050BLQ	0132050BOQ
33mm	50mm	0133050BGQ	0133050BTQ	0133050BLQ	0133050BOQ
34mm	50mm	0134050BGQ	0134050BTQ	0134050BLQ	0134050BOQ
35mm	50mm	0135050BGQ	0135050BTQ	0135050BLQ	0135050BOQ
36mm	50mm	0136050BGQ	0136050BTQ	0136050BLQ	0136050BOQ
37mm	50mm	0137050BGQ	0137050BTQ	0137050BLQ	0137050BOQ
38mm	50mm	0138050BGQ	0138050BTQ	0138050BLQ	0138050BOQ
39mm	50mm	0139050BGQ	0139050BTQ	0139050BLQ	0139050BOQ
40mm	50mm	0140050BGQ	0140050BTQ	0140050BLQ	0140050BOQ
41mm	50mm	0141050BGQ	0141050BTQ	0141050BLQ	0141050BOQ
42mm	50mm	0142050BGQ	0142050BTQ	0142050BLQ	0142050BOQ

ANNULAR HOLE CUTTERS

Size ϕ Cutting depth		Article No.			
		NATURAL	TIN	TiALN	PLATING
43mm	50mm	0143050BGQ	0143050BTQ	0143050BLQ	0143050BOQ
44mm	50mm	0144050BGQ	0144050BTQ	0144050BLQ	0144050BOQ
45mm	50mm	0145050BGQ	0145050BTQ	0145050BLQ	0145050BOQ
46mm	50mm	0146050BGQ	0146050BTQ	0146050BLQ	0146050BOQ
47mm	50mm	0147050BGQ	0147050BTQ	0147050BLQ	0147050BOQ
48mm	50mm	0148050BGQ	0148050BTQ	0148050BLQ	0148050BOQ
49mm	50mm	0149050BGQ	0149050BTQ	0149050BLQ	0149050BOQ
50mm	50mm	0150050BGQ	0150050BTQ	0150050BLQ	0150050BOQ
51mm	50mm	0151050BGQ	0151050BTQ	0151050BLQ	0151050BOQ
52mm	50mm	0152050BGQ	0152050BTQ	0152050BLQ	0152050BOQ
53mm	50mm	0153050BGQ	0153050BTQ	0153050BLQ	0153050BOQ
54mm	50mm	0154050BGQ	0154050BTQ	0154050BLQ	0154050BOQ
55mm	50mm	0155050BGQ	0155050BTQ	0155050BLQ	0155050BOQ
56mm	50mm	0156050BGQ	0156050BTQ	0156050BLQ	0156050BOQ
57mm	50mm	0157050BGQ	0157050BTQ	0157050BLQ	0157050BOQ
58mm	50mm	0158050BGQ	0158050BTQ	0158050BLQ	0158050BOQ
59mm	50mm	0159050BGQ	0159050BTQ	0159050BLQ	0159050BOQ
60mm	50mm	0160050BGQ	0160050BTQ	0160050BLQ	0160050BOQ
65mm	50mm	0165050BGQ	0165050BTQ	0165050BLQ	0165050BOQ
70mm	50mm	0170050BGQ	0170050BTQ	0170050BLQ	0170050BOQ
75mm	50mm	0175050BGQ	0175050BTQ	0175050BLQ	0175050BOQ
80mm	50mm	0180050BGQ	0180050BTQ	0180050BLQ	0180050BOQ
85mm	50mm	0185050BGQ	0185050BTQ	0185050BLQ	0185050BOQ
90mm	50mm	0190050BGQ	0190050BTQ	0190050BLQ	0190050BOQ
95mm	50mm	0195050BGQ	0195050BTQ	0195050BLQ	0195050BOQ

Size ϕ Cutting depth		Article No.			
		NATURAL	TIN	TiALN	PLATING
18mm	75mm	0118075BGQ	0118075BTQ	0118075BLQ	0118075BOQ
19mm	75mm	0119075BGQ	0119075BTQ	0119075BLQ	0119075BOQ
20mm	75mm	0120075BGQ	0120075BTQ	0120075BLQ	0120075BOQ
21mm	75mm	0121075BGQ	0121075BTQ	0121075BLQ	0121075BOQ
22mm	75mm	0122075BGQ	0122075BTQ	0122075BLQ	0122075BOQ
23mm	75mm	0123075BGQ	0123075BTQ	0123075BLQ	0123075BOQ
24mm	75mm	0124075BGQ	0124075BTQ	0124075BLQ	0124075BOQ
25mm	75mm	0125075BGQ	0125075BTQ	0125075BLQ	0125075BOQ
26mm	75mm	0126075BGQ	0126075BTQ	0126075BLQ	0126075BOQ
27mm	75mm	0127075BGQ	0127075BTQ	0127075BLQ	0127075BOQ
28mm	75mm	0128075BGQ	0128075BTQ	0128075BLQ	0128075BOQ
29mm	75mm	0129075BGQ	0129075BTQ	0129075BLQ	0129075BOQ
30mm	75mm	0130075BGQ	0130075BTQ	0130075BLQ	0130075BOQ
31mm	75mm	0131075BGQ	0131075BTQ	0131075BLQ	0131075BOQ
32mm	75mm	0132075BGQ	0132075BTQ	0132075BLQ	0132075BOQ
33mm	75mm	0133075BGQ	0133075BTQ	0133075BLQ	0133075BOQ
34mm	75mm	0134075BGQ	0134075BTQ	0134075BLQ	0134075BOQ
35mm	75mm	0135075BGQ	0135075BTQ	0135075BLQ	0135075BOQ
36mm	75mm	0136075BGQ	0136075BTQ	0136075BLQ	0136075BOQ
37mm	75mm	0137075BGQ	0137075BTQ	0137075BLQ	0137075BOQ
38mm	75mm	0138075BGQ	0138075BTQ	0138075BLQ	0138075BOQ
39mm	75mm	0139075BGQ	0139075BTQ	0139075BLQ	0139075BOQ
40mm	75mm	0140075BGQ	0140075BTQ	0140075BLQ	0140075BOQ
41mm	75mm	0141075BGQ	0141075BTQ	0141075BLQ	0141075BOQ
42mm	75mm	0142075BGQ	0142075BTQ	0142075BLQ	0142075BOQ
43mm	75mm	0143075BGQ	0143075BTQ	0143075BLQ	0143075BOQ
44mm	75mm	0144075BGQ	0144075BTQ	0144075BLQ	0144075BOQ
45mm	75mm	0145075BGQ	0145075BTQ	0145075BLQ	0145075BOQ
46mm	75mm	0146075BGQ	0146075BTQ	0146075BLQ	0146075BOQ
47mm	75mm	0147075BGQ	0147075BTQ	0147075BLQ	0147075BOQ
48mm	75mm	0148075BGQ	0148075BTQ	0148075BLQ	0148075BOQ
49mm	75mm	0149075BGQ	0149075BTQ	0149075BLQ	0149075BOQ
50mm	75mm	0150075BGQ	0150075BTQ	0150075BLQ	0150075BOQ
51mm	75mm	0151075BGQ	0151075BTQ	0151075BLQ	0151075BOQ

ANNULAR HOLE CUTTERS

Size ϕ	Cutting depth	Article No.			
52mm	75mm	0152075BGQ	0152075BTQ	0152075BLQ	0152075BOQ
53mm	75mm	0153075BGQ	0153075BTQ	0153075BLQ	0153075BOQ
54mm	75mm	0154075BGQ	0154075BTQ	0154075BLQ	0154075BOQ
55mm	75mm	0155075BGQ	0155075BTQ	0155075BLQ	0155075BOQ
56mm	75mm	0156075BGQ	0156075BTQ	0156075BLQ	0156075BOQ
57mm	75mm	0157075BGQ	0157075BTQ	0157075BLQ	0157075BOQ
58mm	75mm	0158075BGQ	0158075BTQ	0158075BLQ	0158075BOQ
59mm	75mm	0159075BGQ	0159075BTQ	0159075BLQ	0159075BOQ
60mm	75mm	0160075BGQ	0160075BTQ	0160075BLQ	0160075BOQ
65mm	75mm	0165075BGQ	0165075BTQ	0165075BLQ	0165075BOQ
70mm	75mm	0170075BGQ	0170075BTQ	0170075BLQ	0170075BOQ
75mm	75mm	0175075BGQ	0175075BTQ	0175075BLQ	0175075BOQ
80mm	75mm	0180075BGQ	0180075BTQ	0180075BLQ	0180075BOQ
85mm	75mm	0185075BGQ	0185075BTQ	0185075BLQ	0185075BOQ
90mm	75mm	0190075BGQ	0190075BTQ	0190075BLQ	0190075BOQ
95mm	75mm	0195075BGQ	0195075BTQ	0195075BLQ	0195075BOQ

ANNULAR HOLE CUTTERS Cutting test



TCT ANNULAR HOLE CUTTER, FULLY GROUND

- Perfect stable start
- Conical surface inside
- Precise center pilot fitting
- Ground clamp surface
- Faster, because every tooth cuts
- More accurate
- Greater drill depth
- Stronger, therefore less fragile
- Guaranteed slug ejection



Size ϕ	Cutting depth	Article No.		Size ϕ	Cutting depth	Article No.	
12mm	25mm	0112025EYW	0112025EYQ	12mm	35mm	0112035EYW	0112035EYQ
12.5mm	25mm	0112525EYW	0112525EYQ	12.5mm	35mm	0112535EYW	0112535EYQ
13mm	25mm	0113025EYW	0113025EYQ	13mm	35mm	0113035EYW	0113035EYQ
13.5mm	25mm	0113525EYW	0113525EYQ	13.5mm	35mm	0113535EYW	0113535EYQ
14mm	25mm	0114025EYW	0114025EYQ	14mm	35mm	0114035EYW	0114035EYQ
15mm	25mm	0115025EYW	0115025EYQ	15mm	35mm	0115035EYW	0115035EYQ
16mm	25mm	0116025EYW	0116025EYQ	16mm	35mm	0116035EYW	0116035EYQ
17mm	25mm	0117025EYW	0117025EYQ	17mm	35mm	0117035EYW	0117035EYQ
17.5mm	25mm	0117525EYW	0117525EYQ	17.5mm	35mm	0117535EYW	0117535EYQ
18mm	25mm	0118025EYW	0118025EYQ	18mm	35mm	0118035EYW	0118035EYQ
19mm	25mm	0119025EYW	0119025EYQ	19mm	35mm	0119035EYW	0119035EYQ
20mm	25mm	0120025EYW	0120025EYQ	20mm	35mm	0120035EYW	0120035EYQ
21mm	25mm	0121025EYW	0121025EYQ	21mm	35mm	0121035EYW	0121035EYQ
22mm	25mm	0122025EYW	0122025EYQ	22mm	35mm	0122035EYW	0122035EYQ
23mm	25mm	0123025EYW	0123025EYQ	23mm	35mm	0123035EYW	0123035EYQ
24mm	25mm	0124025EYW	0124025EYQ	24mm	35mm	0124035EYW	0124035EYQ
25mm	25mm	0125025EYW	0125025EYQ	25mm	35mm	0125035EYW	0125035EYQ
26mm	25mm	0126025EYW	0126025EYQ	26mm	35mm	0126035EYW	0126035EYQ
27mm	25mm	0127025EYW	0127025EYQ	27mm	35mm	0127035EYW	0127035EYQ
28mm	25mm	0128025EYW	0128025EYQ	28mm	35mm	0128035EYW	0128035EYQ
29mm	25mm	0129025EYW	0129025EYQ	29mm	35mm	0129035EYW	0129035EYQ
30mm	25mm	0130025EYW	0130025EYQ	30mm	35mm	0130035EYW	0130035EYQ
31mm	25mm	0131025EYW	0131025EYQ	31mm	35mm	0131035EYW	0131035EYQ
32mm	25mm	0132025EYW	0132025EYQ	32mm	35mm	0132035EYW	0132035EYQ
33mm	25mm	0133025EYW	0133025EYQ	33mm	35mm	0133035EYW	0133035EYQ
34mm	25mm	0134025EYW	0134025EYQ	34mm	35mm	0134035EYW	0134035EYQ
35mm	25mm	0135025EYW	0135025EYQ	35mm	35mm	0135035EYW	0135035EYQ

ANNULAR HOLE CUTTERS

Size ϕ	Cutting depth	Article No.		Size ϕ	Cutting depth	Article No.	
36mm	25mm	0136025EYW	0136025EQ	36mm	35mm	0136035EYW	0136035EQ
37mm	25mm	0137025EYW	0137025EQ	37mm	35mm	0137035EYW	0137035EQ
38mm	25mm	0138025EYW	0138025EQ	38mm	35mm	0138035EYW	0138035EQ
39mm	25mm	0139025EYW	0139025EQ	39mm	35mm	0139035EYW	0139035EQ
40mm	25mm	0140025EYW	0140025EQ	40mm	35mm	0140035EYW	0140035EQ
41mm	25mm	0141025EYW	0141025EQ	41mm	35mm	0141035EYW	0141035EQ
42mm	25mm	0142025EYW	0142025EQ	42mm	35mm	0142035EYW	0142035EQ
43mm	25mm	0143025EYW	0143025EQ	43mm	35mm	0143035EYW	0143035EQ
44mm	25mm	0144025EYW	0144025EQ	44mm	35mm	0144035EYW	0144035EQ
45mm	25mm	0145025EYW	0145025EQ	45mm	35mm	0145035EYW	0145035EQ
46mm	25mm	0146025EYW	0146025EQ	46mm	35mm	0146035EYW	0146035EQ
47mm	25mm	0147025EYW	0147025EQ	47mm	35mm	0147035EYW	0147035EQ
48mm	25mm	0148025EYW	0148025EQ	48mm	35mm	0148035EYW	0148035EQ
49mm	25mm	0149025EYW	0149025EQ	49mm	35mm	0149035EYW	0149035EQ
50mm	25mm	0150025EYW	0150025EQ	50mm	35mm	0150035EYW	0150035EQ
51mm	25mm	0151025EYW	0151025EQ	51mm	35mm	0151035EYW	0151035EQ
52mm	25mm	0152025EYW	0152025EQ	52mm	35mm	0152035EYW	0152035EQ
53mm	25mm	0153025EYW	0153025EQ	53mm	35mm	0153035EYW	0153035EQ
54mm	25mm	0154025EYW	0154025EQ	54mm	35mm	0154035EYW	0154035EQ
55mm	25mm	0155025EYW	0155025EQ	55mm	35mm	0155035EYW	0155035EQ
56mm	25mm	0156025EYW	0156025EQ	56mm	35mm	0156035EYW	0156035EQ
57mm	25mm	0157025EYW	0157025EQ	57mm	35mm	0157035EYW	0157035EQ
58mm	25mm	0158025EYW	0158025EQ	58mm	35mm	0158035EYW	0158035EQ
59mm	25mm	0159025EYW	0159025EQ	59mm	35mm	0159035EYW	0159035EQ
60mm	25mm	0160025EYW	0160025EQ	60mm	35mm	0160035EYW	0160035EQ
65mm	25mm	0165025EYW	0165025EQ	65mm	35mm	0165035EYW	0165035EQ
70mm	25mm	0170025EYW	0170025EQ	70mm	35mm	0170035EYW	0170035EQ
75mm	25mm	0175025EYW	0175025EQ	75mm	35mm	0175035EYW	0175035EQ
80mm	25mm	0180025EYW	0180025EQ	80mm	35mm	0180035EYW	0180035EQ
85mm	25mm	0185025EYW	0185025EQ	85mm	35mm	0185035EYW	0185035EQ
90mm	25mm	0190025EYW	0190025EQ	90mm	35mm	0190035EYW	0190035EQ
95mm	25mm	0195025EYW	0195025EQ	95mm	35mm	0195035EYW	0195035EQ

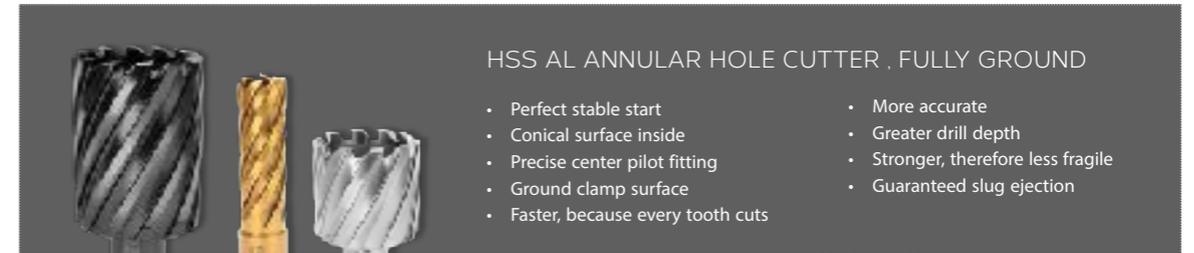
Size ϕ	Cutting depth	Article No.		Size ϕ	Cutting depth	Article No.	
12mm	50mm	0112050EYW	0112050EQ	12mm	75mm	0112075EYW	0112075EQ
12.5mm	50mm	0112550EYW	0112550EQ	12.5mm	75mm	0112575EYW	0112575EQ
13mm	50mm	0113050EYW	0113050EQ	13mm	75mm	0113075EYW	0113075EQ
13.5mm	50mm	0113550EYW	0113550EQ	13.5mm	75mm	0113575EYW	0113575EQ
14mm	50mm	0114050EYW	0114050EQ	14mm	75mm	0114075EYW	0114075EQ
15mm	50mm	0115050EYW	0115050EQ	15mm	75mm	0115075EYW	0115075EQ
16mm	50mm	0116050EYW	0116050EQ	16mm	75mm	0116075EYW	0116075EQ
17mm	50mm	0117050EYW	0117050EQ	17mm	75mm	0117075EYW	0117075EQ
17.5mm	50mm	0117550EYW	0117550EQ	17.5mm	75mm	0117575EYW	0117575EQ
18mm	50mm	0118050EYW	0118050EQ	18mm	75mm	0118075EYW	0118075EQ
19mm	50mm	0119050EYW	0119050EQ	19mm	75mm	0119075EYW	0119075EQ
20mm	50mm	0120050EYW	0120050EQ	20mm	75mm	0120075EYW	0120075EQ
21mm	50mm	0121050EYW	0121050EQ	21mm	75mm	0121075EYW	0121075EQ
22mm	50mm	0122050EYW	0122050EQ	22mm	75mm	0122075EYW	0122075EQ
23mm	50mm	0123050EYW	0123050EQ	23mm	75mm	0123075EYW	0123075EQ
24mm	50mm	0124050EYW	0124050EQ	24mm	75mm	0124075EYW	0124075EQ
25mm	50mm	0125050EYW	0125050EQ	25mm	75mm	0125075EYW	0125075EQ
26mm	50mm	0126050EYW	0126050EQ	26mm	75mm	0126075EYW	0126075EQ
27mm	50mm	0127050EYW	0127050EQ	27mm	75mm	0127075EYW	0127075EQ
28mm	50mm	0128050EYW	0128050EQ	28mm	75mm	0128075EYW	0128075EQ
29mm	50mm	0129050EYW	0129050EQ	29mm	75mm	0129075EYW	0129075EQ
30mm	50mm	0130050EYW	0130050EQ	30mm	75mm	0130075EYW	0130075EQ
31mm	50mm	0131050EYW	0131050EQ	31mm	75mm	0131075EYW	0131075EQ
32mm	50mm	0132050EYW	0132050EQ	32mm	75mm	0132075EYW	0132075EQ
33mm	50mm	0133050EYW	0133050EQ	33mm	75mm	0133075EYW	0133075EQ
34mm	50mm	0134050EYW	0134050EQ	34mm	75mm	0134075EYW	0134075EQ
35mm	50mm	0135050EYW	0135050EQ	35mm	75mm	0135075EYW	0135075EQ
36mm	50mm	0136050EYW	0136050EQ	36mm	75mm	0136075EYW	0136075EQ
37mm	50mm	0137050EYW	0137050EQ	37mm	75mm	0137075EYW	0137075EQ
38mm	50mm	0138050EYW	0138050EQ	38mm	75mm	0138075EYW	0138075EQ
39mm	50mm	0139050EYW	0139050EQ	39mm	75mm	0139075EYW	0139075EQ
40mm	50mm	0140050EYW	0140050EQ	40mm	75mm	0140075EYW	0140075EQ
41mm	50mm	0141050EYW	0141050EQ	41mm	75mm	0141075EYW	0141075EQ
42mm	50mm	0142050EYW	0142050EQ	42mm	75mm	0142075EYW	0142075EQ
43mm	50mm	0143050EYW	0143050EQ	43mm	75mm	0143075EYW	0143075EQ

ANNULAR HOLE CUTTERS

Size ϕ	Cutting depth	Article No.		Size ϕ	Cutting depth	Article No.	
44mm	50mm	0144050EYW	0144050EYQ	44mm	75mm	0144075EYW	0144075EYQ
45mm	50mm	0145050EYW	0145050EYQ	45mm	75mm	0145075EYW	0145075EYQ
46mm	50mm	0146050EYW	0146050EYQ	46mm	75mm	0146075EYW	0146075EYQ
47mm	50mm	0147050EYW	0147050EYQ	47mm	75mm	0147075EYW	0147075EYQ
48mm	50mm	0148050EYW	0148050EYQ	48mm	75mm	0148075EYW	0148075EYQ
49mm	50mm	0149050EYW	0149050EYQ	49mm	75mm	0149075EYW	0149075EYQ
50mm	50mm	0150050EYW	0150050EYQ	50mm	75mm	0150075EYW	0150075EYQ
51mm	50mm	0151050EYW	0151050EYQ	51mm	75mm	0151075EYW	0151075EYQ
52mm	50mm	0152050EYW	0152050EYQ	52mm	75mm	0152075EYW	0152075EYQ
53mm	50mm	0153050EYW	0153050EYQ	53mm	75mm	0153075EYW	0153075EYQ
54mm	50mm	0154050EYW	0154050EYQ	54mm	75mm	0154075EYW	0154075EYQ
55mm	50mm	0155050EYW	0155050EYQ	55mm	75mm	0155075EYW	0155075EYQ
56mm	50mm	0156050EYW	0156050EYQ	56mm	75mm	0156075EYW	0156075EYQ
57mm	50mm	0157050EYW	0157050EYQ	57mm	75mm	0157075EYW	0157075EYQ
58mm	50mm	0158050EYW	0158050EYQ	58mm	75mm	0158075EYW	0158075EYQ
59mm	50mm	0159050EYW	0159050EYQ	59mm	75mm	0159075EYW	0159075EYQ
60mm	50mm	0160050EYW	0160050EYQ	60mm	75mm	0160075EYW	0160075EYQ
65mm	50mm	0165050EYW	0165050EYQ	65mm	75mm	0165075EYW	0165075EYQ
70mm	50mm	0170050EYW	0170050EYQ	70mm	75mm	0170075EYW	0170075EYQ
75mm	50mm	0175050EYW	0175050EYQ	75mm	75mm	0175075EYW	0175075EYQ
80mm	50mm	0180050EYW	0180050EYQ	80mm	75mm	0180075EYW	0180075EYQ
85mm	50mm	0185050EYW	0185050EYQ	85mm	75mm	0185075EYW	0185075EYQ
90mm	50mm	0190050EYW	0190050EYQ	90mm	75mm	0190075EYW	0190075EYQ
95mm	50mm	0195050EYW	0195050EYQ	95mm	75mm	0195075EYW	0195075EYQ

SHIWEI Carbide Tipped Annular Cutters are suitable for drilling difficult materials such as stainless steel, copper and aluminum. The Tungsten Carbide Tipped Cutters consist of an alloy metal body and tungsten carbide cutting teeth. The latter can be sharpened or replaced.

SHIWEI Carbide Tipped Annular Cutters are among the very best cutters, These top-quality Annular Cutters are available with cutting depths up to 55 mm and diameters up to ϕ 130 mm.



HSS AL ANNULAR HOLE CUTTER , FULLY GROUND

- Perfect stable start
- Conical surface inside
- Precise center pilot fitting
- Ground clamp surface
- Faster, because every tooth cuts
- More accurate
- Greater drill depth
- Stronger, therefore less fragile
- Guaranteed slug ejection



Size ϕ	Cutting depth	Article No.			
7/16XDC	1"	0171601AGW	0171601ATW	0171601ALW	0171601AOW
1/2XDC	1"	0112001AGW	0112001ATW	0112001ALW	0112001AOW
9/16XDC	1"	0191601AGW	0191601ATW	0191601ALW	0191601AOW
5/8XDC	1"	0158001AGW	0158001ATW	0158001ALW	0158001AOW
11/16XDC	1"	0111161AGW	0111161ATW	0111161ALW	0111161AOW
3/4XDC	1"	0134001AGW	0134001ATW	0134001ALW	0134001AOW
13/16XDC	1"	0113161AGW	0113161ATW	0113161ALW	0113161AOW
7/8XDC	1"	0178001AGW	0178001ATW	0178001ALW	0178001AOW
15/16XDC	1"	0115161AGW	0115161ATW	0115161ALW	0115161AOW
1XDC	1"	0110001AGW	0110001ATW	0110001ALW	0110001AOW
1-1/16XDC	1"	0111161AGW	0111161ATW	0111161ALW	0111161AOW
1-1/8XDC	1"	0111801AGW	0111801ATW	0111801ALW	0111801AOW
1-3/16XDC	1"	0113161AGW	0113161ATW	0113161ALW	0113161AOW
1-1/4XDC	1"	0114001AGW	0114001ATW	0114001ALW	0114001AOW
1-5/16XDC	1"	0115161AGW	0115161ATW	0115161ALW	0115161AOW
1-3/8XDC	1"	0113801AGW	0113801ATW	0113801ALW	0113801AOW
1-7/16XDC	1"	0117161AGW	0117161ATW	0117161ALW	0117161AOW
1-1/2XDC	1"	0111201AGW	0111201ATW	0111201ALW	0111201AOW
1-9/16XDC	1"	0119161AGW	0119161ATW	0119161ALW	0119161AOW
1-5/8XDC	1"	0115801AGW	0115801ATW	0115801ALW	0115801AOW
1-11/16XDC	1"	01111161AGW	01111161ATW	01111161ALW	01111161AOW
1-3/4XDC	1"	0113401AGW	0113401ATW	0113401ALW	0113401AOW
1-13/16XDC	1"	0113161AGW	0113161ATW	0113161ALW	0113161AOW
1-7/8XDC	1"	0117801AGW	0117801ATW	0117801ALW	0117801AOW
1-15/16XDC	1"	01115161AGW	01115161ATW	01115161ALW	01115161AOW
2XDC	1"	0120001AGW	0120001ATW	0120001ALW	0120001AOW
2-1/16XDC	1"	0121161AGW	0121161ATW	0121161ALW	0121161AOW

ANNULAR HOLE CUTTERS

Size ϕ	Cutting depth	Article No.			
7/16XDC	2"	0171602AGW	0171602ATW	0171602ALW	0171602AOW
1/2XDC	2"	0112002AGW	0112002ATW	0112002ALW	0112002AOW
9/16XDC	2"	0191602AGW	0191602ATW	0191602ALW	0191602AOW
5/8XDC	2"	0158002AGW	0158002ATW	0158002ALW	0158002AOW
11/16XDC	2"	0111162AGW	0111162ATW	0111162ALW	0111162AOW
3/4XDC	2"	0134002AGW	0134002ATW	0134002ALW	0134002AOW
13/16XDC	2"	0113162AGW	0113162ATW	0113162ALW	0113162AOW
7/8XDC	2"	0178002AGW	0178002ATW	0178002ALW	0178002AOW
15/16XDC	2"	0115162AGW	0115162ATW	0115162ALW	0115162AOW
1XDC	2"	0110002AGW	0110002ATW	0110002ALW	0110002AOW
1-1/16XDC	2"	0111162AGW	0111162ATW	0111162ALW	0111162AOW
1-1/8XDC	2"	0111802AGW	0111802ATW	0111802ALW	0111802AOW
1-3/16XDC	2"	0113162AGW	0113162ATW	0113162ALW	0113162AOW
1-1/4XDC	2"	0114002AGW	0114002ATW	0114002ALW	0114002AOW
1-5/16XDC	2"	0115162AGW	0115162ATW	0115162ALW	0115162AOW
1-3/8XDC	2"	0113802AGW	0113802ATW	0113802ALW	0113802AOW
1-7/16XDC	2"	0117162AGW	0117162ATW	0117162ALW	0117162AOW
1-1/2XDC	2"	0111202AGW	0111202ATW	0111202ALW	0111202AOW
1-9/16XDC	2"	0119162AGW	0119162ATW	0119162ALW	0119162AOW
1-5/8XDC	2"	0115802AGW	0115802ATW	0115802ALW	0115802AOW
1-11/16XDC	2"	01111162AGW	01111162ATW	01111162ALW	01111162AOW
1-3/4XDC	2"	0113402AGW	0113402ATW	0113402ALW	0113402AOW
1-13/16XDC	2"	0113162AGW	0113162ATW	0113162ALW	0113162AOW
1-7/8XDC	2"	0117802AGW	0117802ATW	0117802ALW	0117802AOW
1-15/16XDC	2"	01115162AGW	01115162ATW	01115162ALW	01115162AOW
2XDC	2"	0120002AGW	0120002ATW	0120002ALW	0120002AOW
2-1/16XDC	2"	0121162AGW	0121162ATW	0121162ALW	0121162AOW

Size ϕ	Cutting depth	Article No.			
13/16XDC	3"	0113163AGW	0113163ATW	0113163ALW	0113163AOW
7/8XDC	3"	0178003AGW	0178003ATW	0178003ALW	0178003AOW
15/16XDC	3"	0115163AGW	0115163ATW	0115163ALW	0115163AOW
1XDC	3"	0110003AGW	0110003ATW	0110003ALW	0110003AOW
1-1/16XDC	3"	0113163AGW	0113163ATW	0113163ALW	0113163AOW
1-1/8XDC	3"	0111803AGW	0111803ATW	0111803ALW	0111803AOW
1-3/16XDC	3"	0113163AGW	0113163ATW	0113163ALW	0113163AOW
1-1/4XDC	3"	0114003AGW	0114003ATW	0114003ALW	0114003AOW
1-5/16XDC	3"	0115163AGW	0115163ATW	0115163ALW	0115163AOW
1-3/8XDC	3"	0113803AGW	0113803ATW	0113803ALW	0113803AOW
1-7/16XDC	3"	0117163AGW	0117163ATW	0117163ALW	0117163AOW
1-1/2XDC	3"	0111203AGW	0111203ATW	0111203ALW	0111203AOW
1-9/16XDC	3"	0119163AGW	0119163ATW	0119163ALW	0119163AOW
1-5/8XDC	3"	0115803AGW	0115803ATW	0115803ALW	0115803AOW
1-11/16XDC	3"	01111163AGW	01111163ATW	01111163ALW	01111163AOW
1-3/4XDC	3"	0113403AGW	0113403ATW	0113403ALW	0113403AOW
1-13/16XDC	3"	0113163AGW	0113163ATW	0113163ALW	0113163AOW
1-7/8XDC	3"	0117803AGW	0117803ATW	0117803ALW	0117803AOW
1-15/16XDC	3"	01115163AGW	01115163ATW	01115163ALW	01115163AOW
2XDC	3"	0120003AGW	0120003ATW	0120003ALW	0120003AOW
2-1/16XDC	3"	0121163AGW	0121163ATW	0121163ALW	0121163AOW

ANNULAR HOLE CUTTERS



Size ϕ	Cutting depth	Article No.			
7/16XDC	1"	0171601AGQ	0171601ATQ	0171601ALQ	0171601AOW
1/2XDC	1"	0112001AGW	0112001ATW	0112001ALW	0112001AOW
9/16XDC	1"	0191601AGW	0191601ATW	0191601ALW	0191601AOW
5/8XDC	1"	0158001AGW	0158001ATW	0158001ALW	0158001AOW
11/16XDC	1"	0111161AGW	0111161ATW	0111161ALW	0111161AOW
3/4XDC	1"	0134001AGW	0134001ATW	0134001ALW	0134001AOW
13/16XDC	1"	0113161AGW	0113161ATW	0113161ALW	0113161AOW
7/8XDC	1"	0178001AGW	0178001ATW	0178001ALW	0178001AOW
15/16XDC	1"	0115161AGW	0115161ATW	0115161ALW	0115161AOW
1XDC	1"	0110001AGW	0110001ATW	0110001ALW	0110001AOW
1-1/16XDC	1"	0111161AGW	0111161ATW	0111161ALW	0111161AOW
1-1/8XDC	1"	0111801AGW	0111801ATW	0111801ALW	0111801AOW
1-3/16XDC	1"	0113161AGW	0113161ATW	0113161ALW	0113161AOW
1-1/4XDC	1"	0114001AGW	0114001ATW	0114001ALW	0114001AOW
1-5/16XDC	1"	0115161AGW	0115161ATW	0115161ALW	0115161AOW
1-3/8XDC	1"	0113801AGW	0113801ATW	0113801ALW	0113801AOW
1-7/16XDC	1"	0117161AGW	0117161ATW	0117161ALW	0117161AOW
1-1/2XDC	1"	0111201AGW	0111201ATW	0111201ALW	0111201AOW
1-9/16XDC	1"	0119161AGW	0119161ATW	0119161ALW	0119161AOW
1-5/8XDC	1"	0115801AGW	0115801ATW	0115801ALW	0115801AOW
1-11/16XDC	1"	01111161AGW	01111161ATW	01111161ALW	01111161AOW
1-3/4XDC	1"	0113401AGW	0113401ATW	0113401ALW	0113401AOW
1-13/16XDC	1"	0113161AGW	0113161ATW	0113161ALW	0113161AOW
1-7/8XDC	1"	0117801AGW	0117801ATW	0117801ALW	0117801AOW
1-15/16XDC	1"	01115161AGW	01115161ATW	01115161ALW	01115161AOW
2XDC	1"	0120001AGW	0120001ATW	0120001ALW	0120001AOW
2-1/16XDC	1"	0121161AGW	0121161ATW	0121161ALW	0121161AOW

Size ϕ	Cutting depth	Article No.			
7/16XDC	2"	0171602AGQ	0171602ATQ	0171602ALQ	0171602AOW
1/2XDC	2"	0112002AGW	0112002ATW	0112002ALW	0112002AOW
9/16XDC	2"	0191602AGW	0191602ATW	0191602ALW	0191602AOW
5/8XDC	2"	0158002AGW	0158002ATW	0158002ALW	0158002AOW
11/16XDC	2"	0111162AGW	0111162ATW	0111162ALW	0111162AOW
3/4XDC	2"	0134002AGW	0134002ATW	0134002ALW	0134002AOW
13/16XDC	2"	0113162AGW	0113162ATW	0113162ALW	0113162AOW
7/8XDC	2"	0178002AGW	0178002ATW	0178002ALW	0178002AOW
15/16XDC	2"	0115162AGW	0115162ATW	0115162ALW	0115162AOW
1XDC	2"	0110002AGW	0110002ATW	0110002ALW	0110002AOW
1-1/16XDC	2"	0111162AGW	0111162ATW	0111162ALW	0111162AOW
1-1/8XDC	2"	0111802AGW	0111802ATW	0111802ALW	0111802AOW
1-3/16XDC	2"	0113162AGW	0113162ATW	0113162ALW	0113162AOW
1-1/4XDC	2"	0114002AGW	0114002ATW	0114002ALW	0114002AOW
1-5/16XDC	2"	0115162AGW	0115162ATW	0115162ALW	0115162AOW
1-3/8XDC	2"	0113802AGW	0113802ATW	0113802ALW	0113802AOW
1-7/16XDC	2"	0117162AGW	0117162ATW	0117162ALW	0117162AOW
1-1/2XDC	2"	0111202AGW	0111202ATW	0111202ALW	0111202AOW
1-9/16XDC	2"	0119162AGW	0119162ATW	0119162ALW	0119162AOW
1-5/8XDC	2"	0115802AGW	0115802ATW	0115802ALW	0115802AOW
1-11/16XDC	2"	01111162AGW	01111162ATW	01111162ALW	01111162AOW
1-3/4XDC	2"	0113402AGW	0113402ATW	0113402ALW	0113402AOW
1-13/16XDC	2"	0113162AGW	0113162ATW	0113162ALW	0113162AOW
1-7/8XDC	2"	0117802AGW	0117802ATW	0117802ALW	0117802AOW
1-15/16XDC	2"	01115162AGW	01115162ATW	01115162ALW	01115162AOW
2XDC	2"	0120002AGW	0120002ATW	0120002ALW	0120002AOW
2-1/16XDC	2"	0121162AGW	0121162ATW	0121162ALW	0121162AOW

ANNULAR HOLE CUTTERS

Size ϕ	Cutting depth	Article No.			
13/16XDC	3"	0113163AGQ	0113163ATQ	0113163ALQ	0113163AOQ
7/8XDC	3"	0178003AGW	0178003ATW	0178003ALW	0178003AOW
15/16XDC	3"	0115163AGW	0115163ATW	0115163ALW	0115163AOW
1XDC	3"	0110003AGW	0110003ATW	0110003ALW	0110003AOW
1-1/16XDC	3"	0113163AGW	0113163ATW	0113163ALW	0113163AOW
1-1/8XDC	3"	0111803AGW	0111803ATW	0111803ALW	0111803AOW
1-3/16XDC	3"	0113163AGW	0113163ATW	0113163ALW	0113163AOW
1-1/4XDC	3"	0114003AGW	0114003ATW	0114003ALW	0114003AOW
1-5/16XDC	3"	0115163AGW	0115163ATW	0115163ALW	0115163AOW
1-3/8XDC	3"	0113803AGW	0113803ATW	0113803ALW	0113803AOW
1-7/16XDC	3"	0117163AGW	0117163ATW	0117163ALW	0117163AOW
1-1/2XDC	3"	0111203AGW	0111203ATW	0111203ALW	0111203AOW
1-9/16XDC	3"	0119163AGW	0119163ATW	0119163ALW	0119163AOW
1-5/8XDC	3"	0115803AGW	0115803ATW	0115803ALW	0115803AOW
1-11/16XDC	3"	01111163AGW	01111163ATW	01111163ALW	01111163AOW
1-3/4XDC	3"	0113403AGW	0113403ATW	0113403ALW	0113403AOW
1-13/16XDC	3"	0113163AGW	0113163ATW	0113163ALW	0113163AOW
1-7/8XDC	3"	0117803AGW	0117803ATW	0117803ALW	0117803AOW
1-15/16XDC	3"	01115163AGW	01115163ATW	01115163ALW	01115163AOW
2XDC	3"	0120003AGW	0120003ATW	0120003ALW	0120003AOW
2-1/16XDC	3"	0121163AGW	0121163ATW	0121163ALW	0121163AOW

HSS AL Annular Cutters, with unique geometry type and random-space tips, provide clearly cutting, fast feed rate, less vibration, smooth hole surface and long tool life, highly effective for drilling. They are better and quicker than twist drills.

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The HSS AL Annular Cutters have gained huge popularity in the market. The entire range is available in various specifications that can be customized as per clients' requirements.

HSS-CO ANNULAR HOLE CUTTER , FULLY GROUND

- Perfect stable start
- Conical surface inside
- Precise center pilot fitting
- Ground clamp surface
- Faster, because every tooth cuts
- More accurate
- Greater drill depth
- Stronger, therefore less fragile
- Guaranteed slug ejection

HSS-Co 5%

Size ϕ	Cutting depth	Article No.			
7/16XDC	1"	0171601BGW	0171601BTW	0171601BLW	0171601BOW
1/2XDC	1"	0112001AGW	0112001ATW	0112001ALW	0112001AOW
9/16XDC	1"	0191601AGW	0191601ATW	0191601ALW	0191601AOW
5/8XDC	1"	0158001AGW	0158001ATW	0158001ALW	0158001AOW
11/16XDC	1"	0111161AGW	0111161ATW	0111161ALW	0111161AOW
3/4XDC	1"	0134001AGW	0134001ATW	0134001ALW	0134001AOW
13/16XDC	1"	0113161AGW	0113161ATW	0113161ALW	0113161AOW
7/8XDC	1"	0178001AGW	0178001ATW	0178001ALW	0178001AOW
15/16XDC	1"	0115161AGW	0115161ATW	0115161ALW	0115161AOW
1XDC	1"	0110001AGW	0110001ATW	0110001ALW	0110001AOW
1-1/16XDC	1"	0111161AGW	0111161ATW	0111161ALW	0111161AOW
1-1/8XDC	1"	0111801AGW	0111801ATW	0111801ALW	0111801AOW
1-3/16XDC	1"	0113161AGW	0113161ATW	0113161ALW	0113161AOW
1-1/4XDC	1"	0114001AGW	0114001ATW	0114001ALW	0114001AOW
1-5/16XDC	1"	0115161AGW	0115161ATW	0115161ALW	0115161AOW
1-3/8XDC	1"	0113801AGW	0113801ATW	0113801ALW	0113801AOW
1-7/16XDC	1"	0117161AGW	0117161ATW	0117161ALW	0117161AOW
1-1/2XDC	1"	0111201AGW	0111201ATW	0111201ALW	0111201AOW
1-9/16XDC	1"	0119161AGW	0119161ATW	0119161ALW	0119161AOW
1-5/8XDC	1"	0115801AGW	0115801ATW	0115801ALW	0115801AOW
1-11/16XDC	1"	01111161AGW	01111161ATW	01111161ALW	01111161AOW
1-3/4XDC	1"	0113401AGW	0113401ATW	0113401ALW	0113401AOW
1-13/16XDC	1"	0113161AGW	0113161ATW	0113161ALW	0113161AOW
1-7/8XDC	1"	0117801AGW	0117801ATW	0117801ALW	0117801AOW
1-15/16XDC	1"	01115161AGW	01115161ATW	01115161ALW	01115161AOW
2XDC	1"	0120001AGW	0120001ATW	0120001ALW	0120001AOW
2-1/16XDC	1"	0121161AGW	0121161ATW	0121161ALW	0121161AOW

ANNULAR HOLE CUTTERS

Size ϕ	Cutting depth	Article No.			
7/16XDC	2"	0171602BGW	0171602BTW	0171602BLW	0171602BOW
1/2XDC	2"	0112002AGW	0112002ATW	0112002ALW	0112002AOW
9/16XDC	2"	0191602AGW	0191602ATW	0191602ALW	0191602AOW
5/8XDC	2"	0158002AGW	0158002ATW	0158002ALW	0158002AOW
11/16XDC	2"	0111162AGW	0111162ATW	0111162ALW	0111162AOW
3/4XDC	2"	0134002AGW	0134002ATW	0134002ALW	0134002AOW
13/16XDC	2"	0113162AGW	0113162ATW	0113162ALW	0113162AOW
7/8XDC	2"	0178002AGW	0178002ATW	0178002ALW	0178002AOW
15/16XDC	2"	0115162AGW	0115162ATW	0115162ALW	0115162AOW
1XDC	2"	0110002AGW	0110002ATW	0110002ALW	0110002AOW
1-1/16XDC	2"	0111162AGW	0111162ATW	0111162ALW	0111162AOW
1-1/8XDC	2"	0111802AGW	0111802ATW	0111802ALW	0111802AOW
1-3/16XDC	2"	0113162AGW	0113162ATW	0113162ALW	0113162AOW
1-1/4XDC	2"	0114002AGW	0114002ATW	0114002ALW	0114002AOW
1-5/16XDC	2"	0115162AGW	0115162ATW	0115162ALW	0115162AOW
1-3/8XDC	2"	0113802AGW	0113802ATW	0113802ALW	0113802AOW
1-7/16XDC	2"	0117162AGW	0117162ATW	0117162ALW	0117162AOW
1-1/2XDC	2"	0111202AGW	0111202ATW	0111202ALW	0111202AOW
1-9/16XDC	2"	0119162AGW	0119162ATW	0119162ALW	0119162AOW
1-5/8XDC	2"	0115802AGW	0115802ATW	0115802ALW	0115802AOW
1-11/16XDC	2"	01111162AGW	01111162ATW	01111162ALW	01111162AOW
1-3/4XDC	2"	0113402AGW	0113402ATW	0113402ALW	0113402AOW
1-13/16XDC	2"	0113162AGW	0113162ATW	0113162ALW	0113162AOW
1-7/8XDC	2"	0117802AGW	0117802ATW	0117802ALW	0117802AOW
1-15/16XDC	2"	01115162AGW	01115162ATW	01115162ALW	01115162AOW
2XDC	2"	0120002AGW	0120002ATW	0120002ALW	0120002AOW
2-1/16XDC	2"	0121162AGW	0121162ATW	0121162ALW	0121162AOW

Size ϕ	Cutting depth	Article No.			
13/16XDC	3"	0113163BGW	0113163BTW	0113163BLW	0113163BOW
7/8XDC	3"	0178003AGW	0178003ATW	0178003ALW	0178003AOW
15/16XDC	3"	0115163AGW	0115163ATW	0115163ALW	0115163AOW
1XDC	3"	0110003AGW	0110003ATW	0110003ALW	0110003AOW
1-1/16XDC	3"	0113163AGW	0113163ATW	0113163ALW	0113163AOW
1-1/8XDC	3"	0111803AGW	0111803ATW	0111803ALW	0111803AOW
1-3/16XDC	3"	0113163AGW	0113163ATW	0113163ALW	0113163AOW
1-1/4XDC	3"	0114003AGW	0114003ATW	0114003ALW	0114003AOW
1-5/16XDC	3"	0115163AGW	0115163ATW	0115163ALW	0115163AOW
1-3/8XDC	3"	0113803AGW	0113803ATW	0113803ALW	0113803AOW
1-7/16XDC	3"	0117163AGW	0117163ATW	0117163ALW	0117163AOW
1-1/2XDC	3"	0111203AGW	0111203ATW	0111203ALW	0111203AOW
1-9/16XDC	3"	0119163AGW	0119163ATW	0119163ALW	0119163AOW
1-5/8XDC	3"	0115803AGW	0115803ATW	0115803ALW	0115803AOW
1-11/16XDC	3"	01111163AGW	01111163ATW	01111163ALW	01111163AOW
1-3/4XDC	3"	0113403AGW	0113403ATW	0113403ALW	0113403AOW
1-13/16XDC	3"	0113163AGW	0113163ATW	0113163ALW	0113163AOW
1-7/8XDC	3"	0117803AGW	0117803ATW	0117803ALW	0117803AOW
1-15/16XDC	3"	01115163AGW	01115163ATW	01115163ALW	01115163AOW
2XDC	3"	0120003AGW	0120003ATW	0120003ALW	0120003AOW
2-1/16XDC	3"	0121163AGW	0121163ATW	0121163ALW	0121163AOW

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ANNULAR HOLE CUTTERS

Size ϕ	Cutting depth	Article No.			
7/16XDC	1"	0171601BGQ	0171601BTQ	0171601BLQ	0171601BOQ
1/2XDC	1"	0112001AGW	0112001ATW	0112001ALW	0112001AOW
9/16XDC	1"	0191601AGW	0191601ATW	0191601ALW	0191601AOW
5/8XDC	1"	0158001AGW	0158001ATW	0158001ALW	0158001AOW
11/16XDC	1"	0111161AGW	0111161ATW	0111161ALW	0111161AOW
3/4XDC	1"	0134001AGW	0134001ATW	0134001ALW	0134001AOW
13/16XDC	1"	0113161AGW	0113161ATW	0113161ALW	0113161AOW
7/8XDC	1"	0178001AGW	0178001ATW	0178001ALW	0178001AOW
15/16XDC	1"	0115161AGW	0115161ATW	0115161ALW	0115161AOW
1XDC	1"	0110001AGW	0110001ATW	0110001ALW	0110001AOW
1-1/16XDC	1"	0111161AGW	0111161ATW	0111161ALW	0111161AOW
1-1/8XDC	1"	0111801AGW	0111801ATW	0111801ALW	0111801AOW
1-3/16XDC	1"	0113161AGW	0113161ATW	0113161ALW	0113161AOW
1-1/4XDC	1"	0114001AGW	0114001ATW	0114001ALW	0114001AOW
1-5/16XDC	1"	0115161AGW	0115161ATW	0115161ALW	0115161AOW
1-3/8XDC	1"	0113801AGW	0113801ATW	0113801ALW	0113801AOW
1-7/16XDC	1"	0117161AGW	0117161ATW	0117161ALW	0117161AOW
1-1/2XDC	1"	0111201AGW	0111201ATW	0111201ALW	0111201AOW
1-9/16XDC	1"	0119161AGW	0119161ATW	0119161ALW	0119161AOW
1-5/8XDC	1"	0115801AGW	0115801ATW	0115801ALW	0115801AOW
1-11/16XDC	1"	01111161AGW	01111161ATW	01111161ALW	01111161AOW
1-3/4XDC	1"	0113401AGW	0113401ATW	0113401ALW	0113401AOW
1-13/16XDC	1"	0113161AGW	0113161ATW	0113161ALW	0113161AOW
1-7/8XDC	1"	0117801AGW	0117801ATW	0117801ALW	0117801AOW
1-15/16XDC	1"	01115161AGW	01115161ATW	01115161ALW	01115161AOW
2XDC	1"	0120001AGW	0120001ATW	0120001ALW	0120001AOW
2-1/16XDC	1"	0121161AGW	0121161ATW	0121161ALW	0121161AOW

Size ϕ	Cutting depth	Article No.			
7/16XDC	2"	0171602BGQ	0171602BTQ	0171602BLQ	0171602BOQ
1/2XDC	2"	0112002AGW	0112002ATW	0112002ALW	0112002AOW
9/16XDC	2"	0191602AGW	0191602ATW	0191602ALW	0191602AOW
5/8XDC	2"	0158002AGW	0158002ATW	0158002ALW	0158002AOW
11/16XDC	2"	0111162AGW	0111162ATW	0111162ALW	0111162AOW
3/4XDC	2"	0134002AGW	0134002ATW	0134002ALW	0134002AOW
13/16XDC	2"	0113162AGW	0113162ATW	0113162ALW	0113162AOW
7/8XDC	2"	0178002AGW	0178002ATW	0178002ALW	0178002AOW
15/16XDC	2"	0115162AGW	0115162ATW	0115162ALW	0115162AOW
1XDC	2"	0110002AGW	0110002ATW	0110002ALW	0110002AOW
1-1/16XDC	2"	0111162AGW	0111162ATW	0111162ALW	0111162AOW
1-1/8XDC	2"	0111802AGW	0111802ATW	0111802ALW	0111802AOW
1-3/16XDC	2"	0113162AGW	0113162ATW	0113162ALW	0113162AOW
1-1/4XDC	2"	0114002AGW	0114002ATW	0114002ALW	0114002AOW
1-5/16XDC	2"	0115162AGW	0115162ATW	0115162ALW	0115162AOW
1-3/8XDC	2"	0113802AGW	0113802ATW	0113802ALW	0113802AOW
1-7/16XDC	2"	0117162AGW	0117162ATW	0117162ALW	0117162AOW
1-1/2XDC	2"	0111202AGW	0111202ATW	0111202ALW	0111202AOW
1-9/16XDC	2"	0119162AGW	0119162ATW	0119162ALW	0119162AOW
1-5/8XDC	2"	0115802AGW	0115802ATW	0115802ALW	0115802AOW
1-11/16XDC	2"	01111162AGW	01111162ATW	01111162ALW	01111162AOW
1-3/4XDC	2"	0113402AGW	0113402ATW	0113402ALW	0113402AOW
1-13/16XDC	2"	0113162AGW	0113162ATW	0113162ALW	0113162AOW
1-7/8XDC	2"	0117802AGW	0117802ATW	0117802ALW	0117802AOW
1-15/16XDC	2"	01115162AGW	01115162ATW	01115162ALW	01115162AOW
2XDC	2"	0120002AGW	0120002ATW	0120002ALW	0120002AOW
2-1/16XDC	2"	0121162AGW	0121162ATW	0121162ALW	0121162AOW

ANNULAR HOLE CUTTERS

Size ϕ	Cutting depth	Article No.			
13/16XDC	3"	0113163BGQ	0113163BTQ	0113163BLQ	0113163BOQ
7/8XDC	3"	0178003AGW	0178003ATW	0178003ALW	0178003AOW
15/16XDC	3"	0115163AGW	0115163ATW	0115163ALW	0115163AOW
1XDC	3"	0110003AGW	0110003ATW	0110003ALW	0110003AOW
1-1/16XDC	3"	0113163AGW	0113163ATW	0113163ALW	0113163AOW
1-1/8XDC	3"	0111803AGW	0111803ATW	0111803ALW	0111803AOW
1-3/16XDC	3"	0113163AGW	0113163ATW	0113163ALW	0113163AOW
1-1/4XDC	3"	0114003AGW	0114003ATW	0114003ALW	0114003AOW
1-5/16XDC	3"	0115163AGW	0115163ATW	0115163ALW	0115163AOW
1-3/8XDC	3"	0113803AGW	0113803ATW	0113803ALW	0113803AOW
1-7/16XDC	3"	0117163AGW	0117163ATW	0117163ALW	0117163AOW
1-1/2XDC	3"	0111203AGW	0111203ATW	0111203ALW	0111203AOW
1-9/16XDC	3"	0119163AGW	0119163ATW	0119163ALW	0119163AOW
1-5/8XDC	3"	0115803AGW	0115803ATW	0115803ALW	0115803AOW
1-11/16XDC	3"	01111163AGW	01111163ATW	01111163ALW	01111163AOW
1-3/4XDC	3"	0113403AGW	0113403ATW	0113403ALW	0113403AOW
1-13/16XDC	3"	0113163AGW	0113163ATW	0113163ALW	0113163AOW
1-7/8XDC	3"	0117803AGW	0117803ATW	0117803ALW	0117803AOW
1-15/16XDC	3"	01115163AGW	01115163ATW	01115163ALW	01115163AOW
2XDC	3"	0120003AGW	0120003ATW	0120003ALW	0120003AOW
2-1/16XDC	3"	0121163AGW	0121163ATW	0121163ALW	0121163AOW

ANNULAR HOLE CUTTERS Cutting test



TCT ANNULAR HOLE CUTTER, FULLY GROUND

- Perfect stable start
- Conical surface inside
- Precise center pilot fitting
- Ground clamp surface
- Faster, because every tooth cuts
- More accurate
- Greater drill depth
- Stronger, therefore less fragile
- Guaranteed slug ejection

Size ϕ	Cutting depth	Article No.		Size ϕ	Cutting depth	Article No.	
7/16XDC	1"	0171601EYW	0171601EYQ	7/16XDC	2"	0171602EYW	0171602EYQ
1/2XDC	1"	0112001EYW	0112001EYQ	1/2XDC	2"	0112002AGQ	0137035EYQ
9/16XDC	1"	0191601AGQ	0138025EYQ	9/16XDC	2"	0191602AGQ	0138035EYQ
5/8XDC	1"	0158001AGQ	0139025EYQ	5/8XDC	2"	0158002AGQ	0139035EYQ
11/16XDC	1"	0111161AGQ	0140025EYQ	11/16XDC	2"	0111162AGQ	0140035EYQ
3/4XDC	1"	0134001AGQ	0141025EYQ	3/4XDC	2"	0134002AGQ	0141035EYQ
13/16XDC	1"	0113161AGQ	0142025EYQ	13/16XDC	2"	0113162AGQ	0142035EYQ
7/8XDC	1"	0178001AGQ	0143025EYQ	7/8XDC	2"	0178002AGQ	0143035EYQ
15/16XDC	1"	0115161AGQ	0144025EYQ	15/16XDC	2"	0115162AGQ	0144035EYQ
1XDC	1"	0110001AGQ	0145025EYQ	1XDC	2"	0110002AGQ	0145035EYQ
1-1/16XDC	1"	0111161AGQ	0146025EYQ	1-1/16XDC	2"	0111162AGQ	0146035EYQ
1-1/8XDC	1"	0111801AGQ	0147025EYQ	1-1/8XDC	2"	0111802AGQ	0147035EYQ
1-3/16XDC	1"	0113161AGQ	0148025EYQ	1-3/16XDC	2"	0113162AGQ	0148035EYQ
1-1/4XDC	1"	0114001AGQ	0149025EYQ	1-1/4XDC	2"	0114002AGQ	0149035EYQ
1-5/16XDC	1"	0115161AGQ	0150025EYQ	1-5/16XDC	2"	0115162AGQ	0150035EYQ
1-3/8XDC	1"	0113801AGQ	0151025EYQ	1-3/8XDC	2"	0113802AGQ	0151035EYQ
1-7/16XDC	1"	0117161AGQ	0152025EYQ	1-7/16XDC	2"	0117162AGQ	0152035EYQ
1-1/2XDC	1"	0111201AGQ	0153025EYQ	1-1/2XDC	2"	0111202AGQ	0153035EYQ
1-9/16XDC	1"	0119161AGQ	0154025EYQ	1-9/16XDC	2"	0119162AGQ	0154035EYQ
1-5/8XDC	1"	0115801AGQ	0155025EYQ	1-5/8XDC	2"	0115802AGQ	0155035EYQ
1-11/16XDC	1"	01111161AGQ	0156025EYQ	1-11/16XDC	2"	01111162AGQ	0156035EYQ
1-3/4XDC	1"	0113401AGQ	0157025EYQ	1-3/4XDC	2"	0113402AGQ	0157035EYQ
1-13/16XDC	1"	0113161AGQ	0158025EYQ	1-13/16XDC	2"	0113162AGQ	0158035EYQ
1-7/8XDC	1"	0117801AGQ	0159025EYQ	1-7/8XDC	2"	0117802AGQ	0159035EYQ
1-15/16XDC	1"	01115161AGQ	0160025EYQ	1-15/16XDC	2"	01115162AGQ	0160035EYQ
2XDC	1"	0120001AGQ	0165025EYQ	2XDC	2"	0120002AGQ	0165035EYQ
2-1/16XDC	1"	0121161AGQ	0170025EYQ	2-1/16XDC	2"	0121162AGQ	0170035EYQ

ANNULAR HOLE CUTTERS

Size ϕ	Cutting depth	Article No.		Size ϕ	Cutting depth	Article No.	
ϕ SPECIFICATION	CUTTING DEPTH	WELDED CARBIDE	CARBIDE	ϕ SPECIFICATION	CUTTING DEPTH	WELDED CARBIDE	CARBIDE
13/16XDC	3"	0113163EYW	0113163EYQ	1-1/2XDC	3"	0111203AGQ	0120050EYQ
7/8XDC	3"	0178003AGQ	0112550EYQ	1-9/16XDC	3"	0119163AGQ	0121050EYQ
15/16XDC	3"	0115163AGQ	0113050EYQ	1-5/8XDC	3"	0115803AGQ	0122050EYQ
1XDC	3"	0110003AGQ	0113550EYQ	1-11/16XDC	3"	01111163AGQ	0123050EYQ
1-1/16XDC	3"	0113163AGQ	0114050EYQ	1-3/4XDC	3"	0113403AGQ	0124050EYQ
1-1/8XDC	3"	0111803AGQ	0115050EYQ	1-13/16XDC	3"	0113163AGQ	0125050EYQ
1-3/16XDC	3"	0113163AGQ	0116050EYQ	1-7/8XDC	3"	0117803AGQ	0126050EYQ
1-1/4XDC	3"	0114003AGQ	0117050EYQ	1-15/16XDC	3"	01115163AGQ	0127050EYQ
1-5/16XDC	3"	0115163AGQ	0117550EYQ	2XDC	3"	0120003AGQ	0128050EYQ
1-3/8XDC	3"	0113803AGQ	0118050EYQ	2-1/16XDC	3"	0121163AGQ	0129050EYQ
1-7/16XDC	3"	0117163AGQ	0119050EYQ				



EJECTOR PILOTS

• Ejector Pilot for Annular Cutter



Size ϕ (mm)	Length(mm)	Article No.	Size ϕ (mm)	Length(mm)	Article No.
ϕ SPECIFICATION			ϕ SPECIFICATION		
6.35	77	0163577	6.35	77	0163577S
6.35	87	0163587	6.35	87	0163587S
6.35	103	01635103	6.35	103	01635103S
6.35	127	01635127	6.35	127	01635127S
8.0	77	018077	8.0	77	018077S
8.0	87	018087	8.0	87	018087S
8.0	103	0180103	8.0	103	0180103S
8.0	127	0180127	8.0	127	0180127S



SHIWEI Carbide Tipped Annular Cutters are equipped with a spiral flute which creates optimum chip removal and seizure is virtually impossible. These annular cutters are used e.g. in hardened materials such as HARDOX steel, stainless steels and high tensile strength such as railway tracks. For the latter the Rait drilling machine has been developed especially for this purpose. The Tungsten Carbide Tipped teeth of the cutter can be sharpened or replaced. Because of the above composition, and when used in a proper way, these cutters are less susceptible to breakage than standard High Speed Steel Cutters, especially in larger diameters and lengths.

ANNULAR HOLE CUTTER SETS

How to understand our Article No.



Set Content		Article No.				
SPECIFICATION		NATURAL	TiN	TiALN	PLATING	CARBIDE
12/14/16/18/20/22/24/26/28 2Pilots (30mm)	ROSE WELDON	01010930AGW	01010930ATW	01010930ALW	01010930AOW	01010930EYW
		01010930BGW	01010930BTW	01010930BLW	01010930BOW	
		01010930AGQ	01010930ATQ	01010930ALQ	01010930AOQ	01010930EYQ
12/14/16/18/20/22/24/26/28 2Pilots (50mm or 2DOC)	ROSE WELDON	01010950AGW	01010950ATW	01010950ALW	01010950AOW	01010950EYW
		01010950BGW	01010950BTW	01010950BLW	01010950BOW	
		01010950AGQ	01010950ATQ	01010950ALQ	01010950AOQ	01010950EYQ
12/14/16/18/20/22/24/26 2Pilots (30mm)	ROSE WELDON	01010830AGW	01010830ATW	01010830ALW	01010830AOW	01010830EYW
		01010830BGW	01010830BTW	01010830BLW	01010830BOW	
		01010830AGQ	01010830ATQ	01010830ALQ	01010830AOQ	01010830EYQ
		01010830BGQ	01010830BTQ	01010830BLQ	01010830BOQ	

Set Content		Article No.				
SPECIFICATION		NATURAL	TiN	TiALN	PLATING	CARBIDE
12/14/16/18/20/22/24/26 2Pilots (50mm or 2DOC)	ROSE WELDON	01010850AGW	01010850ATW	01010850ALW	01010850AOW	01010850EYW
		01010850BGW	01010850BTW	01010850BLW	01010850BOW	
		01010850AGQ	01010850ATQ	01010850ALQ	01010850AOQ	01010850EYQ
		01010850BGQ	01010850BTQ	01010850BLQ	01010850BOQ	
12/14/16/18/20/22 2Pilots (30mm)	ROSE WELDON	01010630AGW	01010630ATW	01010630ALW	01010630AOW	01010630EYW
		01010630BGW	01010630BTW	01010630BLW	01010630BOW	
		01010630AGQ	01010630ATQ	01010630ALQ	01010630AOQ	01010630EYQ
		01010630BGQ	01010630BTQ	01010630BLQ	01010630BOQ	
12/14/16/18/20/22 2Pilots (50mm or 2DOC)	ROSE WELDON	01010650AGW	01010650ATW	01010650ALW	01010650AOW	01010650EYW
		01010650BGW	01010650BTW	01010650BLW	01010650BOW	
		01010650AGQ	01010650ATQ	01010650ALQ	01010650AOQ	01010650EYQ
		01010650BGQ	01010650BTQ	01010650BLQ	01010650BOQ	
14/16/18/20/22 2Pilots (30mm)	ROSE WELDON	01010530AGW	01010530ATW	01010530ALW	01010530AOW	01010530EYW
		01010530BGW	01010530BTW	01010530BLW	01010530BOW	
		01010530AGQ	01010530ATQ	01010530ALQ	01010530AOQ	01010530EYQ
		01010530BGQ	01010530BTQ	01010530BLQ	01010530BOQ	
14/16/18/20/22 2Pilots (50mm or 2DOC)	ROSE WELDON	01010550AGW	01010550ATW	01010550ALW	01010550AOW	01010550EYW
		01010550BGW	01010550BTW	01010550BLW	01010550BOW	
		01010550AGQ	01010550ATQ	01010550ALQ	01010550AOQ	01010550EYQ
		01010550BGQ	01010550BTQ	01010550BLQ	01010550BOQ	
12/14/16 2Pilots (25mm or 3/4DOC)	ROSE WELDON	010103-125AGW	010103-125ATW	010103-125ALW	010103-125AOW	010103-125EYW
		010103-125BGW	010103-125BTW	010103-125BLW	010103-125BOW	
		010103-125AGQ	010103-125ATQ	010103-125ALQ	010103-125AOQ	010103-125EYQ
		010103-125BGQ	010103-125BTQ	010103-125BLQ	010103-125BOQ	
12/14/16 2Pilots (30mm)	ROSE WELDON	010103-130AGW	010103-130ATW	010103-130ALW	010103-130AOW	010103-130EYW
		010103-130BGW	010103-130BTW	010103-130BLW	010103-130BOW	
		010103-130AGQ	010103-130ATQ	010103-130ALQ	010103-130AOQ	010103-130EYQ
		010103-130BGQ	010103-130BTQ	010103-130BLQ	010103-130BOQ	
12/14/16 2Pilots (50mm or 2DOC)	ROSE WELDON	010103-150AGW	010103-150ATW	010103-150ALW	010103-150AOW	010103-150EYW
		010103-150BGW	010103-150BTW	010103-150BLW	010103-150BOW	
		010103-150AGQ	010103-150ATQ	010103-150ALQ	010103-150AOQ	010103-150EYQ
		010103-150BGQ	010103-150BTQ	010103-150BLQ	010103-150BOQ	

ANNULAR HOLE CUTTER SETS

Set Content		Article No.				
SPECIFICATION		NATURAL	TIN	TiALN	PLATING	CARBIDE
13/15/18 2Pilots (25mm or 3/4DOC)		010103-225AGW	010103-225ATW	010103-225ALW	010103-225AOW	010103-225EYW
		010103-225BGW	010103-225BTW	010103-225BLW	010103-225BOW	
		010103-225AGQ	010103-225ATQ	010103-225ALQ	010103-225AOQ	010103-225EYQ
13/15/18 2Pilots (30mm)		010103-230AGW	010103-230ATW	010103-230ALW	010103-230AOW	010103-230EYW
		010103-230BGW	010103-230BTW	010103-230BLW	010103-230BOW	
		010103-230AGQ	010103-230ATQ	010103-230ALQ	010103-230AOQ	010103-230EYQ
13/15/18 2Pilots (50mm or 2DOC)		010103-250AGW	010103-250ATW	010103-250ALW	010103-250AOW	010103-250EYW
		010103-250BGW	010103-250BTW	010103-250BLW	010103-250BOW	
		010103-250AGQ	010103-250ATQ	010103-250ALQ	010103-250AOQ	010103-250EYQ
		010103-250BGQ	010103-250BTQ	010103-250BLQ	010103-250BOQ	

HSS / HSS-Co / TC
ANNULAR CUTTER SETS

10/9/8/6/5/3PCS

HSS AI HSS-Co 5% HM TCT LONG LIFE

Set Content		Article No.				
SPECIFICATION		NATURAL	TIN	TiALN	PLATING	CARBIDE
1/2, 9/16, 5/8, 3/4, 11/16, 7/8, 13/16, 15/16, 1, 1-1/16 2Pilots DOC 3/4"		01021034AGW	01021034ATW	01021034ALW	01021034AOW	01021034EYW
		01021034BGW	01021034BTW	01021034BLW	01021034BOW	
		01021034AGQ	01021034ATQ	01021034ALQ	01021034AOQ	01021034EYQ
1/2, 9/16, 5/8, 3/4, 11/16, 7/8, 13/16, 15/16, 1, 1-1/16 2Pilots DOC 1"		0102101AGW	0102101ATW	0102101ALW	0102101AOW	0102101EYW
		0102101BGW	0102101BTW	0102101BLW	0102101BOW	
		0102101AGQ	0102101ATQ	0102101ALQ	0102101AOQ	0102101EYQ
		0102101BGQ	0102101BTQ	0102101BLQ	0102101BOQ	

Set Content		Article No.				
SPECIFICATION		NATURAL	TIN	TiALN	PLATING	CARBIDE
1/2, 9/16, 5/8, 3/4, 11/16, 7/8, 13/16, 15/16, 1, 1-1/16 2Pilots DOC 2"		0102102AGW	0102102ATW	0102102ALW	0102102AOW	0102102EYW
		0102102BGW	0102102BTW	0102102BLW	0102102BOW	
		0102102AGQ	0102102ATQ	0102102ALQ	0102102AOQ	0102102EYQ
1/2, 9/16, 5/8, 3/4, 7/8, 13/16, 1, 1-1/16 2Pilots DOC 3/4"		01020834AGW	01020834ATW	01020834ALW	01020834AOW	01020834EYW
		01020834BGW	01020834BTW	01020834BLW	01020834BOW	
		01020834AGQ	01020834ATQ	01020834ALQ	01020834AOQ	01020834EYQ
1/2, 9/16, 5/8, 3/4, 7/8, 13/16, 1, 1-1/16 2Pilots DOC 1"		0102081AGW	0102081ATW	0102081ALW	0102081AOW	0102081EYW
		0102081BGW	0102081BTW	0102081BLW	0102081BOW	
		0102081AGQ	0102081ATQ	0102081ALQ	0102081AOQ	0102081EYQ
1/2, 9/16, 5/8, 3/4, 7/8, 13/16, 1, 1-1/16 2Pilots DOC 2"		0102082AGW	0102082ATW	0102082ALW	0102082AOW	0102082EYW
		0102082BGW	0102082BTW	0102082BLW	0102082BOW	
		0102082AGQ	0102082ATQ	0102082ALQ	0102082AOQ	0102082EYQ
9/16, 5/8, 11/16, 13/16, 15/16, 1-1/16 2Pilots DOC 3/4"		01020634AGW	01020634ATW	01020634ALW	01020634AOW	01020634EYW
		01020634BGW	01020634BTW	01020634BLW	01020634BOW	
		01020634AGQ	01020634ATQ	01020634ALQ	01020634AOQ	01020634EYQ
9/16, 5/8, 11/16, 13/16, 15/16, 1-1/16 2Pilots DOC 1"		0102061AGW	0102061ATW	0102061ALW	0102061AOW	0102061EYW
		0102061BGW	0102061BTW	0102061BLW	0102061BOW	
		0102061AGQ	0102061ATQ	0102061ALQ	0102061AOQ	0102061EYQ
9/16, 5/8, 11/16, 13/16, 15/16, 1-1/16 2Pilots DOC 2"		0102062AGW	0102062ATW	0102062ALW	0102062AOW	0102062EYW
		0102062BGW	0102062BTW	0102062BLW	0102062BOW	
		0102062AGQ	0102062ATQ	0102062ALQ	0102062AOQ	0102062EYQ
9/16, 11/16, 13/16, 15/16, 1-1/16 2Pilots DOC 3/4"		01020534AGW	01020534ATW	01020534ALW	01020534AOW	01020534EYW
		01020534BGW	01020534BTW	01020534BLW	01020534BOW	
		01020534AGQ	01020534ATQ	01020534ALQ	01020534AOQ	01020534EYQ
		01020534BGQ	01020534BTQ	01020534BLQ	01020534BOQ	

ANNULAR HOLE CUTTER SETS

Set Content		Article No.				
SPECIFICATION		NATURAL	TiN	TiALN	PLATING	CARBIDE
9/16, 11/16, 13/16, 15/16, 1-1/16 2Pilots DOC 1"	 	0102051AGW	0102051ATW	0102051ALW	0102051AOW	0102051EYW
		0102051BGW	0102051BTW	0102051BLW	0102051BOW	
		0102051AGQ	0102051ATQ	0102051ALQ	0102051AOQ	0102051EYQ
		0102051BGQ	0102051BTQ	0102051BLQ	0102051BOQ	
9/16, 11/16, 13/16, 15/16, 1-1/16 2Pilots DOC 2"	 	0102052AGW	0102052ATW	0102052ALW	0102052AOW	0102052EYW
		0102052BGW	0102052BTW	0102052BLW	0102052BOW	
		0102052AGQ	0102052ATQ	0102052ALQ	0102052AOQ	0102052EYQ
		0102052BGQ	0102052BTQ	0102052BLQ	0102052BOQ	
1/2, 5/8, 3/4 2Pilots DOC 1"	 	0102031AGW	0102031ATW	0102031ALW	0102031AOW	0102031EYW
		0102031BGW	0102031BTW	0102031BLW	0102031BOW	
		0102031AGQ	0102031ATQ	0102031ALQ	0102031AOQ	0102031EYQ
		0102031BGQ	0102031BTQ	0102031BLQ	0102031BOQ	
1/2, 5/8, 3/4 2Pilots DOC 2"	 	0102032AGW	0102032ATW	0102032ALW	0102032AOW	0102032EYW
		0102032BGW	0102032BTW	0102032BLW	0102032BOW	
		0102032AGQ	0102032ATQ	0102032ALQ	0102032AOQ	0102032EYQ
		0102032BGQ	0102032BTQ	0102032BLQ	0102032BOQ	

NOTES:



ROSE PLASTIC

- Green and environment friendly, can be used multiple times.
- Arrange neatly to protect the cutting edge of the tool.
- Free combination tool, optional size: 12mm-30mm



SHIWEI NEW TYPE

- Green and environment friendly, can be used multiple times.
- Arrange neatly to protect the cutting edge of the tool.
- Free combination tool, optional size: 12mm-30mm
- Transparent cover for easy identification of products.
- Can be used with a variety of tools: drills, taps, countersink etc...



FEATURES

- * High accuracy
- * CBN Fully Ground
- * High safety against rupture
- * Optimal employment at materials up to 800-1200 N/mm²
- * Ground from the SHIWEI material
- * High heat resistance
- * Long tool file
- * Designed to drill acid resistant steel, case hardening steel, titanium
- * Quick chuck
- * Fits for all Weldon holders
- * Also for conventional Magnetic drill chucks

APPLICATIONS

Use drills for :

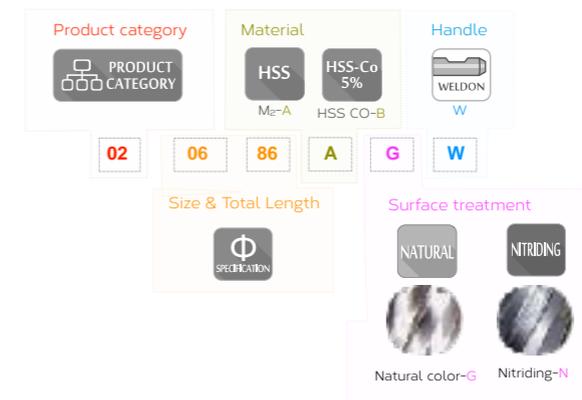
- Sheet metal working in electrical, sanitary engineering, heating technologies, automotive, mechanical engineering, switching systems and aviation
- Non-ferrous metal, steel, stainless steel, thermoplastics, duroplastics, sheet metals up to 0.16"(8 ga.)thick
- Center, spot-drill, bore and deburr - all in one operation

Material Sheet

China	European	American	Japanese	HRC
HSS6542	HSS	M2	SKH-51	63-65
HSS Co5	HSS-E	M35	SKH-55	64-66

HSS Co5 is a development of **HSS6542** and contains 5% cobalt which gives improved hardness, wear resistance and red hardness. It may be used when cutting higher strength materials.

How to understand our Article No.



WELDON SHANK DRILLS



HSS / HSS-Co
WELDON SHANK DRILLS



Size ϕ (mm)	Total Length	Article No.			
Φ SPECIFICATION		WELDON			
		NATURAL	NITRIDING	NATURAL	NITRIDING
6	62mm	020662AGW	020662ANW	020662BGW	020662BNW
7	62mm	020762AGW	020762ANW	020762BGW	020762BNW
8	62mm	020862AGW	020862ANW	020862BGW	020862BNW
9	62mm	020962AGW	020962ANW	020962BGW	020962BNW
10	62mm	021062AGW	021062ANW	021062BGW	021062BNW
11	62mm	021162AGW	021162ANW	021162BGW	021162BNW
12	62mm	021262AGW	021262ANW	021262BGW	021262BNW
13	62mm	021362AGW	021362ANW	021362BGW	021362BNW
14	62mm	021462AGW	021462ANW	021462BGW	021462BNW
15	62mm	021562AGW	021562ANW	021562BGW	021562BNW
16	62mm	021662AGW	021662ANW	021662BGW	021662BNW
17	62mm	021762AGW	021762ANW	021762BGW	021762BNW
18	62mm	021862AGW	021862ANW	021862BGW	021862BNW
19	62mm	021962AGW	021962ANW	021962BGW	021962BNW
20	62mm	022062AGW	022062ANW	022062BGW	022062BNW



HSS / HSS-Co
WELDON SHANK DRILLS



Size ϕ (mm)	Total Length	Article No.			
Φ SPECIFICATION		WELDON			
		NATURAL	NITRIDING	NATURAL	NITRIDING
6	86mm	020686AGW	020686ANW	020686BGW	020686BNW
7	86mm	020786AGW	020786ANW	020786BGW	020786BNW
8	86mm	020886AGW	020886ANW	020886BGW	020886BNW
9	86mm	020986AGW	020986ANW	020986BGW	020986BNW
10	86mm	021086AGW	021086ANW	021086BGW	021086BNW
11	86mm	021186AGW	021186ANW	021186BGW	021186BNW
12	86mm	021286AGW	021286ANW	021286BGW	021286BNW
13	86mm	021386AGW	021386ANW	021386BGW	021386BNW
14	86mm	021486AGW	021486ANW	021486BGW	021486BNW
15	86mm	021586AGW	021586ANW	021586BGW	021586BNW
16	86mm	021686AGW	021686ANW	021686BGW	021686BNW
17	86mm	021786AGW	021786ANW	021786BGW	021786BNW
18	86mm	021886AGW	021886ANW	021886BGW	021886BNW
19	86mm	021986AGW	021986ANW	021986BGW	021986BNW
20	86mm	022086AGW	022086ANW	022086BGW	022086BNW



HSS

Material Sheet

China	European	American	Japanese	HRC
HSS6542	HSS	M2	SKH-51	63-65

Application

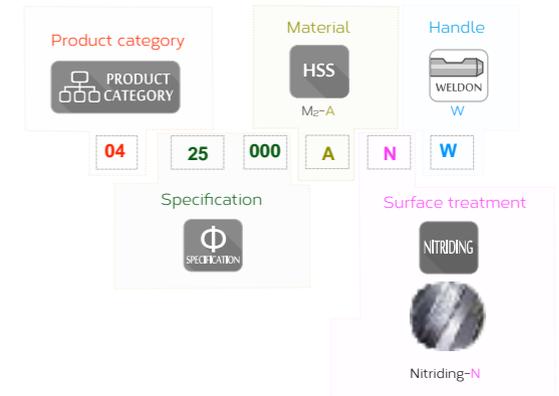
For deburring and chamfering with morse taper retainer in magnetic-stand and pillar drilling machines.

Quality Signs

CBN Fully Ground make a better and sharper cutting edge is achieved - without burrs

- * Three flutes design
- * Chatterless cutting performance
- * High smooth finish

How to understand our Article No.



HSS / HSS-Co
METRIC SIZE WELDON SHANK COUNTERSINKS

HSS
HSS-Co 5%
Welding Mask
Drill
Countersink
Weldon Shank
Long Life

Size ϕ	Total Length	Article No.
ϕ SPECIFICATION		WELDON NITRIDING
25mm	45mm	0425000ANW
30mm	48mm	0430000ANW
40mm	52mm	0440000ANW
55mm	60mm	0455000ANW
65mm	65mm	0465000ANW

Other sizes available on request !

COMBINATION DRILL&TAPS

Product Information

Combination drill & tap with 19 mm (3/4") shaft provides hole drilling and top quality threads cutting in one work stroke every time. It delivers great time and efficiency savings when compared to conventional tapping applications.

Advantages

- Reduces set up time
- No need for tap driving equipment
- Correct core hole size and thread every time
- Includes a safety recess at the end of the thread to avoid tool damage whilst threading
- No more misalignment between core and tap
- Simple to use, producing top quality threads
- Suitable for plate with a thickness equal to the thread size

Industrial Application Examples

- General engineering
- Truck and trailer manufacturing
- Shipbuilding and railroad
- Elevator repair
- Bridge and highway maintenance
- Construction
- Offshore rigs and pipelines
- General metal fabrications

Hexagon Drill & Tap Kit with adapter

- A unique adapter with a standard 19mm shaft with a 1/4" HEX bit drive.
- Fast fitted when drilling and tapping threads and chamfering required.
- Drill bit and thread bit in accordance with the bits in Quick change bits.



How to understand our Article No.

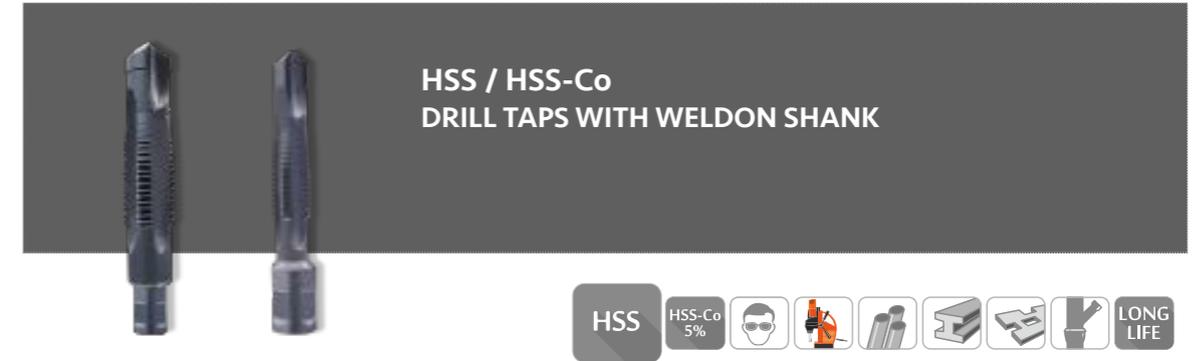


COMBINATION DRILL&TAPS



Nominal Thread size & Pitch (mm)	Total Length	Flute Length	Article No.			
M8x1.25	90mm	25mm	0308125AGW	0308125ANW	0308125BGW	0308125BNW
M10x1.5	90mm	28mm	0310150AGW	0310150ANW	0310150BGW	0310150BNW
M12x1.75	100mm	32mm	0312175AGW	0312175ANW	0312175BGW	0312175BNW
M14x2	100mm	36mm	0314200AGW	0314200ANW	0314200BGW	0314200BNW
M16x2	100mm	36mm	0316200AGW	0316200ANW	0316200BGW	0316200BNW
M18x1.5	110mm	40mm	0318150AGW	0318150ANW	0318150BGW	0318150BNW
M18x2.5	110mm	45mm	0318250AGW	0318250ANW	0318250BGW	0318250BNW
M20x2.5	115mm	45mm	0320250AGW	0320250ANW	0320250BGW	0320250BNW
M22x2.5	115mm	45mm	0322250AGW	0322250ANW	0322250BGW	0322250BNW
M24x3	126mm	54mm	0324300AGW	0324300ANW	0324300BGW	0324300BNW
M27x3	130mm	54mm	0327300AGW	0327300ANW	0327300BGW	0327300BNW
M30x3.5	145mm	63mm	0330350AGW	0330350ANW	0330350BGW	0330350BNW

Applicable plate under 10 mm thick Other sizes available on request !



Nominal Thread size & Pitch (mm)	Total Length	Flute Length	Article No.			
M8x1.25	110mm	25mm	0508125AGW	0508125ANW	0508125BGW	0508125BNW
M10x1.5	113mm	28mm	0510150AGW	0510150ANW	0510150BGW	0510150BNW
M12x1.75	117mm	32mm	0512175AGW	0512175ANW	0512175BGW	0512175BNW
M14x2	117mm	36mm	0514200AGW	0514200ANW	0514200BGW	0514200BNW
M16x2	117mm	36mm	0516200AGW	0516200ANW	0516200BGW	0516200BNW
M18x1.5	130mm	40mm	0518150AGW	0518150ANW	0518150BGW	0518150BNW
M18x2.5	130mm	45mm	0518250AGW	0518250ANW	0518250BGW	0518250BNW
M20x2.5	135mm	45mm	0520250AGW	0520250ANW	0520250BGW	0520250BNW
M22x2.5	135mm	45mm	0522250AGW	0522250ANW	0522250BGW	0522250BNW
M24x3	148mm	54mm	0524300AGW	0524300ANW	0524300BGW	0524300BNW
M27x3	155mm	54mm	0527300AGW	0527300ANW	0527300BGW	0527300BNW
M30x3.5	169mm	63mm	0530350AGW	0530350ANW	0530350BGW	0530350BNW

Applicable plate under 10 mm thick Other sizes available on request !

WELDON EXTENTION ACCESSORIES



WELDON EXTENTION ACCESSORIES

How to understand our Article No.



Suitable for all core drilling, pillar drilling and milling machines

- **Heavy industry design with keyway and feather key**
Long-term tests series have shown that this specialised design with keyway and feather key has proved outstanding compared to a standard 32 mm Weldon shank. Optimal containment of high torsion forces.
- Polished section: pre-, middle- and post-cutters.
- Required: Tool holder with internal cooling

Article No. 0616502FGM



Article No. 0616903FGM



Article No. 0618904FGM



Advantages of "Heavy Industry Design" SHIWEI Cutters

- Perfect cutting behaviour – even at the first drill-hole
- Excellent centring properties
- Low cutting pressure – low power use
- Vibration-free working
- Chip distribution – no chip jamming
- Drilling depth can be reached in a single operation n Drill core can be easily ejected

Description

Article No.

AMT-2 tool holder with no internal cooling	0616002FGM
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AMT-3 tool holder with no internal cooling	0616003FGM
--	------------



AMT-2 tool holder – Morse taper 2 for cutter With Weldon shank	0616202FGM
--	------------

Ø 12 - 60 mm

With automatic internal cooling –
 Suitable for all machines with MT 2 drill spindle



AMT-3 tool holder – Morse taper 3 for cutter with Weldon shank	0616203FGM
--	------------

Ø 12 - 60 mm

with automatic internal cooling –
 suitable for all machines with MT 3 drill spindle



AMT-2 tool holder – extended version	0624102FGM
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with Weldon shank
 Ø 12 - 50 mm, cutting depth 110 mm
 with automatic internal cooling –
 suitable for all machines with MT 2 drill spindle



AMT-3 tool holder – extended version	0624103FGM
--------------------------------------	------------

with Weldon shank
 Ø 12 - 50 mm, cutting depth 110 mm
 with automatic internal cooling –
 suitable for all machines with MT 3 drill spindle



AL3 tool holder - Morse taper 3	0616502FGM
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for heavy-duty cutters,
 Ø 51 - 100 mm, with keyway with automatic internal cooling



	0616903FGM
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	0618904FGM
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WELDON EXTENTION ACCESSORIES

Article No.	
0616002FGM	
0616003FGM	
0616202FGM	
0616203FGM	
0624102FGM	
0624103FGM	
0618203FGM	
0616502FGM	
0616903FGM	
0618904FGM	

Article No.	
0655000FGW	
0624000FG0	
0612500FGW	
0610500FGW	
0610802FGM	
0610803FGM	
0616201FGR	
0616202FGR	
0645000FGW	
0608000ANR	

NOTES:

Grid area for notes.

SYMBOL INDEX

GENRAL ICONS

PRODUCT CATEGORY Product category

CUTTING DEPTH Cutting depth

Φ SPECIFICATION Specification

mm INCH Drilling Range

M Nominal Thread size & Pitch

mm Total Length(mm)

PLASTIC STEEL ROSE SHIWEI Packing Box

MATERIAL

HM TCT Carbide tipped

HSS-Co 8% 8% cobalt high speed steel M42 quality

HSS-Co 5% 5% cobalt high speed steel M35 quality

HSS AI High speed steel M2AL quality

HSS High speed steel M2 quality

HSS 4341 High speed steel 4341 quality

HSS 4241 High speed steel 4241 quality

Cr Material Cr quality

CS carbon steel

HANDLE

Ø ≥ 3 Anti-slip triple flat shank for $\phi \geq 3\text{mm}$

ROUND Round Shank

Hexagonal Hexagonal shank

WELDON WELDON Flat Shank

Morse Taper Morse Taper Shank

1/4" Hexagonal shank (1/4" = 6.35mm)

Reduced Shank For Chuck use

TPR Handle TPR Handle

Hexagonal shank 3 Hexagonal shank 3

SURFACE TREATMENT

NATURAL Natural color

TiN Titanium nitride coated

TiAlN Titan-Aluminum-Nitride coating for drilling and milling

NITRIDING Nitriding

GREY Grey

PLATING Plating

CARBIDE Carbide

BLACK Black

BLACK Ti Black Ti

TiCN TiCN

TiAlCrN TiAlCr

TOOL APPLICATIONS

Sheet Metals

Metal in general Iron, construction steel

Non-Ferrous Metals

Cast Steel

Machine Tap

ACCU Cordless Drill

Steel Pipes

Make sure to wear safety goggles

LONG LIFE High cutting performance

Hard wood

Magnetic Drill

Hand Tap

PATENT OF UTILITY MODEL

Patent Of Utility Model

