

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

SOLID HARDWARE TOOLS CO., LTD

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CATALOG

COUNTERSINKS



has a policy of continuous improvement

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

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 SHIWEI 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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COUNTERSINKS

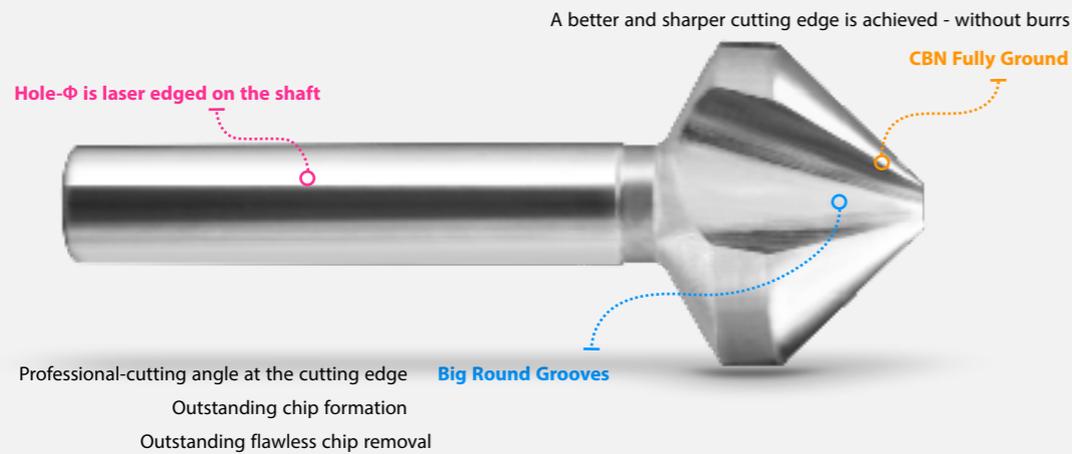


COUNTERSINKS

Product Application

1. The ideal tool for countersinking and deburring in the following sectors of industry: electrical, sanitary engineering, heating technics, mechanical engineering, switching systems, tubular steel construction, furniture and wood working, automotive and aviation.
2. This tough tool is suitable for all standard industrial materials: non-ferrous metal, stainless steel, thermoplastics and duroplastics as well as sheet metals.
3. The taper and deburring countersinks as per DIN 335 are suitable in particular for countersinkings of type A and B of fine execution as per DIN 74

Product Information



COUNTERSINKS 3 ROUND FLUTES CUTTING TEST



Application: For steel, chrome nickel steel, non ferrous metal and plastic

HSS TIN

- Colour: **Gold**
- Layer: **Multilayer coating**
- Layer thickness: **up to 2 µm:**
- Surface hardness: **ca. 2.500 HV**
- Temperature resistant: **bis 600° C ·**
- Cooling: **Not necessary but recommended**

Advantages:

- High surface hardness
- Less coefficient of friction
- up to 25% longer tool life
- Higher cutting speed

HSS TiAIN

Application: Perfect for stainless steel cutting

- Colour: **Black purple**
- Layer: **Multilayer coating**
- Layer thickness: **up to 4 µm:**
- Surface hardness: **ca. 3.500 HV**
- Temperature resistant: **bis 800° C ·**
- Cooling: **Not use any**

Advantages:

- Dry cutting
- Ceramic surface prevented friction
- up to 40% longer tool life
- Highest cutting speed

How to understand our Article No.

Product category PRODUCT CATEGORY	Material HSS M ₂ -A HSS-Co 5% HSS CO-B HSS-Co 8% HSS CO 8%-G HSS 4341 4341-C	Handle T R H M
24	630 00 A G H	
Specification Φ SPECIFICATION	Surface treatment NATURAL TiN TiAL NITRIDING GREY Natural color-G Ti-T TiAL-L Nitriding-N Grey-S	

COUNTERSINKS



HSS HSS-Co 5%

Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.			
			NATURAL	TiN	NATURAL	TiN
6.3	32	1/4	2463000AGH	2463000ATH	2463000BGH	2463000BTH
8.3	32	1/4	2483000AGH	2483000ATH	2483000BGH	2483000BTH
10.4	34	1/4	2410400AGH	2410400ATH	2410400BGH	2410400BTH
12.4	36	1/4	2412400AGH	2412400ATH	2412400BGH	2412400BTH
16.5	40	1/4	2416500AGH	2416500ATH	2416500BGH	2416500BTH
20.5	43.5	1/4	2420500AGH	2420500ATH	2420500BGH	2420500BTH



HSS HSS-Co 5%

Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.			
			NATURAL	TiN	NATURAL	TiN
6.3	32	1/4	2563000AGH	2563000ATH	2563000BGH	2563000BTH
8.3	32	1/4	2583000AGH	2583000ATH	2583000BGH	2583000BTH
10.4	34	1/4	2510400AGH	2510400ATH	2510400BGH	2510400BTH
12.4	36	1/4	2512400AGH	2512400ATH	2512400BGH	2512400BTH
16.5	40	1/4	2516500AGH	2516500ATH	2516500BGH	2516500BTH
20.5	43.5	1/4	2520500AGH	2520500ATH	2520500BGH	2520500BTH

HSS 90 /1/3-Flutes

Material Sheet

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

Technical information

- Cutting edges similar to DIN 335C 90 with 3 relief-ground cutting edges. Drive 1/4" hexagonal shaft in accordance with DIN 3126.

Mechanical application

- stationary drills
- flexible cord hand drills
- battery-powered drills / screw drivers / triple jaw chucks

Application

- For deburring, chamfering and countersinking

Employed in the following sectors

Industry

- electrical, machine, switch cabinet and aircraft construction
- car-, wood-and furniture sectors, mechanical workshops
- repair and assembly departments

Trade

- sanitary and heating engineering
- construction of fairs , doors-and windows
- car repair, panel beating shops, plastics processing

Hobby

- do it yourself, model making



HSS HSS-Co 5%

Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.			
			NATURAL	TiN	NATURAL	TiN
6.3	32	1/4	2663000AGH	2663000ATH	2663000BGH	2663000BTH
8.3	32	1/4	2683000AGH	2683000ATH	2683000BGH	2683000BTH
10.4	34	1/4	2610400AGH	2610400ATH	2610400BGH	2610400BTH
12.4	36	1/4	2612400AGH	2612400ATH	2612400BGH	2612400BTH
16.5	40	1/4	2616500AGH	2616500ATH	2616500BGH	2616500BTH
20.5	43.5	1/4	2620500AGH	2620500ATH	2620500BGH	2620500BTH

COUNTERSINKS



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HSS Co 8% / HSS-Co / HSS / HSS₄₃₄₁
DIN335C 90° COUNTERSINKS

- The robust tool is used in the engineering, machinery, steel pipes-, wood, furniture- and car-industry as well as in the aircraft-engineering
- Radial- and axial relief-grinded
- Chatter free operation
- Multipurpose geometry to optimize the clearance with excellent centering
- Burr free finish, no secondary bulge even in aluminium
- Countersinking of thread holes etc.
- Boring of tubes and sheet metal
- Deburring, countersinking in one stroke without backoff of tool
- For sinkings according to DIN 74 and DIN 75
- Regrindable
- Suitable for almost all materials until circa 1100 N/mm²



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
4.3mm	40mm	4mm	2804300AGR	2804300ATR	2804300ALR
5.0mm	40mm	4mm	2805000AGR	2805000ATR	2805000ALR
5.3mm	40mm	4mm	2805300AGR	2805300ATR	2805300ALR
5.8mm	45mm	5mm	2805800AGR	2805800ATR	2805800ALR
6.0mm	45mm	5mm	2806000AGR	2806000ATR	2806000ALR
6.3mm	45mm	5mm	2806300AGR	2806300ATR	2806300ALR
7.0mm	50mm	6mm	2807000AGR	2807000ATR	2807000ALR
7.3mm	50mm	6mm	2807300AGR	2807300ATR	2807300ALR
8.0mm	50mm	6mm	2808000AGR	2808000ATR	2808000ALR
8.3mm	50mm	6mm	2808300AGR	2808300ATR	2808300ALR
9.4mm	50mm	6mm	2809400AGR	2809400ATR	2809400ALR
10.0mm	50mm	6mm	2810000AGR	2810000ATR	2810000ALR
10.4mm	50mm	6mm	2810400AGR	2810400ATR	2810400ALR
11.5mm	56mm	8mm	2811500AGR	2811500ATR	2811500ALR
12.4mm	56mm	8mm	2812400AGR	2812400ATR	2812400ALR
13.4mm	56mm	8mm	2813400AGR	2813400ATR	2813400ALR
15.0mm	60mm	10mm	2815000AGR	2815000ATR	2815000ALR

COUNTERSINKS

Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
16.5mm	60mm	10mm	2816500AGR	2816500ATR	2816500ALR
19.0mm	63mm	10mm	2819000AGR	2819000ATR	2819000ALR
20.5mm	63mm	10mm	2820500AGR	2820500ATR	2820500ALR
23.0mm	67mm	10mm	2823000AGR	2823000ATR	2823000ALR
25.0mm	67mm	10mm	2825000AGR	2825000ATR	2825000ALR
28.0mm	71mm	12mm	2828000AGR	2828000ATR	2828000ALR
30.0mm	71mm	12mm	2830000AGR	2830000ATR	2830000ALR
31.0mm	71mm	12mm	2831000AGR	2831000ATR	2831000ALR
40.0mm	90mm	15mm	2840000AGR	2840000ATR	2840000ALR
4.3mm	40mm	4mm	2804300BGR	2804300BTR	2804300BLR
5.0mm	40mm	4mm	2805000BGR	2805000BTR	2805000BLR
5.3mm	40mm	4mm	2805300BGR	2805300BTR	2805300BLR
5.8mm	45mm	5mm	2805800BGR	2805800BTR	2805800BLR
6.0mm	45mm	5mm	2806000BGR	2806000BTR	2806000BLR
6.3mm	45mm	5mm	2806300BGR	2806300BTR	2806300BLR
7.0mm	50mm	6mm	2807000BGR	2807000BTR	2807000BLR
7.3mm	50mm	6mm	2807300BGR	2807300BTR	2807300BLR
8.0mm	50mm	6mm	2808000BGR	2808000BTR	2808000BLR
8.3mm	50mm	6mm	2808300BGR	2808300BTR	2808300BLR
9.4mm	50mm	6mm	2809400BGR	2809400BTR	2809400BLR
10.0mm	50mm	6mm	2810000BGR	2810000BTR	2810000BLR
10.4mm	50mm	6mm	2810400BGR	2810400BTR	2810400BLR
11.5mm	56mm	8mm	2811500BGR	2811500BTR	2811500BLR
12.4mm	56mm	8mm	2812400BGR	2812400BTR	2812400BLR
13.4mm	56mm	8mm	2813400BGR	2813400BTR	2813400BLR
15.0mm	60mm	10mm	2815000BGR	2815000BTR	2815000BLR
16.5mm	60mm	10mm	2816500BGR	2816500BTR	2816500BLR
19.0mm	63mm	10mm	2819000BGR	2819000BTR	2819000BLR
20.5mm	63mm	10mm	2820500BGR	2820500BTR	2820500BLR
23.0mm	67mm	10mm	2823000BGR	2823000BTR	2823000BLR

Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
25.0mm	67mm	10mm	2825000BGR	2825000BTR	2825000BLR
28.0mm	71mm	12mm	2828000BGR	2828000BTR	2828000BLR
30.0mm	71mm	12mm	2830000BGR	2830000BTR	2830000BLR
31.0mm	71mm	12mm	2831000BGR	2831000BTR	2831000BLR
40.0mm	90mm	15mm	2840000BGR	2840000BTR	2840000BLR
4.3mm	40mm	4mm	2804300GGR	2804300GTR	2804300GLR
5.0mm	40mm	4mm	2805000GGR	2805000GTR	2805000GLR
5.3mm	40mm	4mm	2805300GGR	2805300GTR	2805300GLR
5.8mm	45mm	5mm	2805800GGR	2805800GTR	2805800GLR
6.0mm	45mm	5mm	2806000GGR	2806000GTR	2806000GLR
6.3mm	45mm	5mm	2806300GGR	2806300GTR	2806300GLR
7.0mm	50mm	6mm	2807000GGR	2807000GTR	2807000GLR
7.3mm	50mm	6mm	2807300GGR	2807300GTR	2807300GLR
8.0mm	50mm	6mm	2808000GGR	2808000GTR	2808000GLR
8.3mm	50mm	6mm	2808300GGR	2808300GTR	2808300GLR
9.4mm	50mm	6mm	2809400GGR	2809400GTR	2809400GLR
10.0mm	50mm	6mm	2810000GGR	2810000GTR	2810000GLR
10.4mm	50mm	6mm	2810400GGR	2810400GTR	2810400GLR
11.5mm	56mm	8mm	2811500GGR	2811500GTR	2811500GLR
12.4mm	56mm	8mm	2812400GGR	2812400GTR	2812400GLR
13.4mm	56mm	8mm	2813400GGR	2813400GTR	2813400GLR
15.0mm	60mm	10mm	2815000GGR	2815000GTR	2815000GLR
16.5mm	60mm	10mm	2816500GGR	2816500GTR	2816500GLR
19.0mm	63mm	10mm	2819000GGR	2819000GTR	2819000GLR
20.5mm	63mm	10mm	2820500GGR	2820500GTR	2820500GLR
23.0mm	67mm	10mm	2823000GGR	2823000GTR	2823000GLR
25.0mm	67mm	10mm	2825000GGR	2825000GTR	2825000GLR
28.0mm	71mm	12mm	2828000GGR	2828000GTR	2828000GLR
30.0mm	71mm	12mm	2830000GGR	2830000GTR	2830000GLR
31.0mm	71mm	12mm	2831000GGR	2831000GTR	2831000GLR
40.0mm	90mm	15mm	2840000GGR	2840000GTR	2840000GLR

COUNTERSINKS



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
			NATURAL	TiN	TiANL
4.3mm	40mm	4mm	2804300CGR	2804300CTR	2804300CLR
5.0mm	40mm	4mm	2805000CGR	2805000CTR	2805000CLR
5.3mm	40mm	4mm	2805300CGR	2805300CTR	2805300CLR
5.8mm	45mm	5mm	2805800CGR	2805800CTR	2805800CLR
6.0mm	45mm	5mm	2806000CGR	2806000CTR	2806000CLR
6.3mm	45mm	5mm	2806300CGR	2806300CTR	2806300CLR
7.0mm	50mm	6mm	2807000CGR	2807000CTR	2807000CLR
7.3mm	50mm	6mm	2807300CGR	2807300CTR	2807300CLR
8.0mm	50mm	6mm	2808000CGR	2808000CTR	2808000CLR
8.3mm	50mm	6mm	2808300CGR	2808300CTR	2808300CLR
9.4mm	50mm	6mm	2809400CGR	2809400CTR	2809400CLR
10.0mm	50mm	6mm	2810000CGR	2810000CTR	2810000CLR
10.4mm	50mm	6mm	2810400CGR	2810400CTR	2810400CLR
11.5mm	56mm	8mm	2811500CGR	2811500CTR	2811500CLR
12.4mm	56mm	8mm	2812400CGR	2812400CTR	2812400CLR
13.4mm	56mm	8mm	2813400CGR	2813400CTR	2813400CLR
15.0mm	60mm	10mm	2815000CGR	2815000CTR	2815000CLR
16.5mm	60mm	10mm	2816500CGR	2816500CTR	2816500CLR
19.0mm	63mm	10mm	2819000CGR	2819000CTR	2819000CLR
20.5mm	63mm	10mm	2820500CGR	2820500CTR	2820500CLR
23.0mm	67mm	10mm	2823000CGR	2823000CTR	2823000CLR
25.0mm	67mm	10mm	2825000CGR	2825000CTR	2825000CLR
28.0mm	71mm	12mm	2828000CGR	2828000CTR	2828000CLR
30.0mm	71mm	12mm	2830000CGR	2830000CTR	2830000CLR
31.0mm	71mm	12mm	2831000CGR	2831000CTR	2831000CLR
40.0mm	90mm	15mm	2840000CGR	2840000CTR	2840000CLR

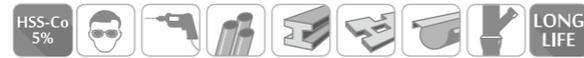


HSS Co 8% / HSS-Co / HSS/HSS₄₃₄₁
DIN335C 90° COUNTERSINKS ROUND FLUTES



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
			NATURAL	TiN	TiANL
4.3mm	40mm	4mm	2904300AGR	2904300ATR	2904300ALR
5.0mm	40mm	4mm	2905000AGR	2905000ATR	2905000ALR
5.3mm	40mm	4mm	2905300AGR	2905300ATR	2905300ALR
5.8mm	45mm	5mm	2905800AGR	2905800ATR	2905800ALR
6.0mm	45mm	5mm	2906000AGR	2906000ATR	2906000ALR
6.3mm	45mm	5mm	2906300AGR	2906300ATR	2906300ALR
7.0mm	50mm	6mm	2907000AGR	2907000ATR	2907000ALR
7.3mm	50mm	6mm	2907300AGR	2907300ATR	2907300ALR
8.0mm	50mm	6mm	2908000AGR	2908000ATR	2908000ALR
8.3mm	50mm	6mm	2908300AGR	2908300ATR	2908300ALR
9.4mm	50mm	6mm	2909400AGR	2909400ATR	2909400ALR
10.0mm	50mm	6mm	2910000AGR	2910000ATR	2910000ALR
10.4mm	50mm	6mm	2910400AGR	2910400ATR	2910400ALR
11.5mm	56mm	8mm	2911500AGR	2911500ATR	2911500ALR
12.4mm	56mm	8mm	2912400AGR	2912400ATR	2912400ALR
13.4mm	56mm	8mm	2913400AGR	2913400ATR	2913400ALR
15.0mm	60mm	10mm	2915000AGR	2915000ATR	2915000ALR
16.5mm	60mm	10mm	2916500AGR	2916500ATR	2916500ALR
19.0mm	63mm	10mm	2919000AGR	2919000ATR	2919000ALR
20.5mm	63mm	10mm	2920500AGR	2920500ATR	2920500ALR
23.0mm	67mm	10mm	2923000AGR	2923000ATR	2923000ALR
25.0mm	67mm	10mm	2925000AGR	2925000ATR	2925000ALR
28.0mm	71mm	12mm	2928000AGR	2928000ATR	2928000ALR
30.0mm	71mm	12mm	2930000AGR	2930000ATR	2930000ALR
31.0mm	71mm	12mm	2931000AGR	2931000ATR	2931000ALR
40.0mm	90mm	15mm	2940000AGR	2940000ATR	2940000ALR

COUNTERSINKS



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
			NATURAL	TiN	TiANL
4.3mm	40mm	4mm	2904300BGR	2904300BTR	2904300BLR
5.0mm	40mm	4mm	2905000BGR	2905000BTR	2905000BLR
5.3mm	40mm	4mm	2905300BGR	2905300BTR	2905300BLR
5.8mm	45mm	5mm	2905800BGR	2905800BTR	2905800BLR
6.0mm	45mm	5mm	2906000BGR	2906000BTR	2906000BLR
6.3mm	45mm	5mm	2906300BGR	2906300BTR	2906300BLR
7.0mm	50mm	6mm	2907000BGR	2907000BTR	2907000BLR
7.3mm	50mm	6mm	2907300BGR	2907300BTR	2907300BLR
8.0mm	50mm	6mm	2908000BGR	2908000BTR	2908000BLR
8.3mm	50mm	6mm	2908300BGR	2908300BTR	2908300BLR
9.4mm	50mm	6mm	2909400BGR	2909400BTR	2909400BLR
10.0mm	50mm	6mm	2910000BGR	2910000BTR	2910000BLR
10.4mm	50mm	6mm	2910400BGR	2910400BTR	2910400BLR
11.5mm	56mm	8mm	2911500BGR	2911500BTR	2911500BLR
12.4mm	56mm	8mm	2912400BGR	2912400BTR	2912400BLR
13.4mm	56mm	8mm	2913400BGR	2913400BTR	2913400BLR
15.0mm	60mm	10mm	2915000BGR	2915000BTR	2915000BLR
16.5mm	60mm	10mm	2916500BGR	2916500BTR	2916500BLR
19.0mm	63mm	10mm	2919000BGR	2919000BTR	2919000BLR
20.5mm	63mm	10mm	2920500BGR	2920500BTR	2920500BLR
23.0mm	67mm	10mm	2923000BGR	2923000BTR	2923000BLR
25.0mm	67mm	10mm	2925000BGR	2925000BTR	2925000BLR
28.0mm	71mm	12mm	2928000BGR	2928000BTR	2928000BLR
30.0mm	71mm	12mm	2930000BGR	2930000BTR	2930000BLR
31.0mm	71mm	12mm	2931000BGR	2931000BTR	2931000BLR
40.0mm	90mm	15mm	2940000BGR	2940000BTR	2940000BLR



4.3mm	40mm	4mm	2904300GGR	2904300GTR	2904300GLR
5.0mm	40mm	4mm	2905000GGR	2905000GTR	2905000GLR

Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
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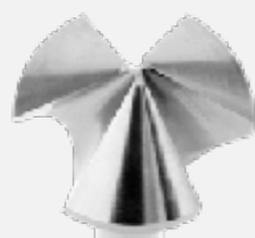
			NATURAL	TiN	TiANL
5.3mm	40mm	4mm	2905300GGR	2905300GTR	2905300GLR
5.8mm	45mm	5mm	2905800GGR	2905800GTR	2905800GLR
6.0mm	45mm	5mm	2906000GGR	2906000GTR	2906000GLR
6.3mm	45mm	5mm	2906300GGR	2906300GTR	2906300GLR
7.0mm	50mm	6mm	2907000GGR	2907000GTR	2907000GLR
7.3mm	50mm	6mm	2907300GGR	2907300GTR	2907300GLR
8.0mm	50mm	6mm	2908000GGR	2908000GTR	2908000GLR
8.3mm	50mm	6mm	2908300GGR	2908300GTR	2908300GLR
9.4mm	50mm	6mm	2909400GGR	2909400GTR	2909400GLR
10.0mm	50mm	6mm	2910000GGR	2910000GTR	2910000GLR
10.4mm	50mm	6mm	2910400GGR	2910400GTR	2910400GLR
11.5mm	56mm	8mm	2911500GGR	2911500GTR	2911500GLR
12.4mm	56mm	8mm	2912400GGR	2912400GTR	2912400GLR
13.4mm	56mm	8mm	2913400GGR	2913400GTR	2913400GLR
15.0mm	60mm	10mm	2915000GGR	2915000GTR	2915000GLR
16.5mm	60mm	10mm	2916500GGR	2916500GTR	2916500GLR
19.0mm	63mm	10mm	2919000GGR	2919000GTR	2919000GLR
20.5mm	63mm	10mm	2920500GGR	2920500GTR	2920500GLR
23.0mm	67mm	10mm	2923000GGR	2923000GTR	2923000GLR
25.0mm	67mm	10mm	2925000GGR	2925000GTR	2925000GLR
28.0mm	71mm	12mm	2928000GGR	2928000GTR	2928000GLR
30.0mm	71mm	12mm	2930000GGR	2930000GTR	2930000GLR
31.0mm	71mm	12mm	2931000GGR	2931000GTR	2931000GLR
40.0mm	90mm	15mm	2940000GGR	2940000GTR	2940000GLR



4.3mm	40mm	4mm	2904300CGR	2904300CTR	2904300CLR
5.0mm	40mm	4mm	2905000CGR	2905000CTR	2905000CLR
5.3mm	40mm	4mm	2905300CGR	2905300CTR	2905300CLR
5.8mm	45mm	5mm	2905800CGR	2905800CTR	2905800CLR
6.0mm	45mm	5mm	2906000CGR	2906000CTR	2906000CLR
6.3mm	45mm	5mm	2906300CGR	2906300CTR	2906300CLR

COUNTERSINKS

Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
			NATURAL	TiN	TiANL
7.0mm	50mm	6mm	2907000CGR	2907000CTR	2907000CLR
7.3mm	50mm	6mm	2907300CGR	2907300CTR	2907300CLR
8.0mm	50mm	6mm	2908000CGR	2908000CTR	2908000CLR
8.3mm	50mm	6mm	2908300CGR	2908300CTR	2908300CLR
9.4mm	50mm	6mm	2909400CGR	2909400CTR	2909400CLR
10.0mm	50mm	6mm	2910000CGR	2910000CTR	2910000CLR
10.4mm	50mm	6mm	2910400CGR	2910400CTR	2910400CLR
11.5mm	56mm	8mm	2911500CGR	2911500CTR	2911500CLR
12.4mm	56mm	8mm	2912400CGR	2912400CTR	2912400CLR
13.4mm	56mm	8mm	2913400CGR	2913400CTR	2913400CLR
15.0mm	60mm	10mm	2915000CGR	2915000CTR	2915000CLR
16.5mm	60mm	10mm	2916500CGR	2916500CTR	2916500CLR
19.0mm	63mm	10mm	2919000CGR	2919000CTR	2919000CLR
20.5mm	63mm	10mm	2920500CGR	2920500CTR	2920500CLR
23.0mm	67mm	10mm	2923000CGR	2923000CTR	2923000CLR
25.0mm	67mm	10mm	2925000CGR	2925000CTR	2925000CLR
28.0mm	71mm	12mm	2928000CGR	2928000CTR	2928000CLR
30.0mm	71mm	12mm	2930000CGR	2930000CTR	2930000CLR
31.0mm	71mm	12mm	2931000CGR	2931000CTR	2931000CLR
40.0mm	90mm	15mm	2940000CGR	2940000CTR	2940000CLR



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

Quality Signs

CBN Fully Ground
Big round grooves
Hole- ϕ is laser edged on the shaft

Application

- For deburring and countersink



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
			NATURAL	TiN	TiANL
4.3mm	40mm	4mm	3004300AGR	3004300ATR	3004300ALR
5.0mm	40mm	4mm	3005000AGR	3005000ATR	3005000ALR
5.3mm	40mm	4mm	3005300AGR	3005300ATR	3005300ALR
5.8mm	45mm	5mm	3005800AGR	3005800ATR	3005800ALR
6.0mm	45mm	5mm	3006000AGR	3006000ATR	3006000ALR
6.3mm	45mm	5mm	3006300AGR	3006300ATR	3006300ALR
7.0mm	50mm	6mm	3007000AGR	3007000ATR	3007000ALR
7.3mm	50mm	6mm	3007300AGR	3007300ATR	3007300ALR
8.0mm	50mm	6mm	3008000AGR	3008000ATR	3008000ALR
8.3mm	50mm	6mm	3008300AGR	3008300ATR	3008300ALR
9.4mm	50mm	6mm	3009400AGR	3009400ATR	3009400ALR
10.0mm	50mm	6mm	3010000AGR	3010000ATR	3010000ALR
10.4mm	50mm	6mm	3010400AGR	3010400ATR	3010400ALR
11.5mm	56mm	8mm	3011500AGR	3011500ATR	3011500ALR
12.4mm	56mm	8mm	3012400AGR	3012400ATR	3012400ALR
13.4mm	56mm	8mm	3013400AGR	3013400ATR	3013400ALR
15.0mm	60mm	10mm	3015000AGR	3015000ATR	3015000ALR
16.5mm	60mm	10mm	3016500AGR	3016500ATR	3016500ALR
19.0mm	63mm	10mm	3019000AGR	3019000ATR	3019000ALR
20.5mm	63mm	10mm	3020500AGR	3020500ATR	3020500ALR
23.0mm	67mm	10mm	3023000AGR	3023000ATR	3023000ALR
25.0mm	67mm	10mm	3025000AGR	3025000ATR	3025000ALR
28.0mm	71mm	12mm	3028000AGR	3028000ATR	3028000ALR
30.0mm	71mm	12mm	3030000AGR	3030000ATR	3030000ALR
31.0mm	71mm	12mm	3031000AGR	3031000ATR	3031000ALR
40.0mm	90mm	15mm	3040000AGR	3040000ATR	3040000ALR

COUNTERSINKS



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
			NATURAL	TiN	TiANL
4.3mm	40mm	4mm	3004300BGR	3004300BTR	3004300BLR
5.0mm	40mm	4mm	3005000BGR	3005000BTR	3005000BLR
5.3mm	40mm	4mm	3005300BGR	3005300BTR	3005300BLR
5.8mm	45mm	5mm	3005800BGR	3005800BTR	3005800BLR
6.0mm	45mm	5mm	3006000BGR	3006000BTR	3006000BLR
6.3mm	45mm	5mm	3006300BGR	3006300BTR	3006300BLR
7.0mm	50mm	6mm	3007000BGR	3007000BTR	3007000BLR
7.3mm	50mm	6mm	3007300BGR	3007300BTR	3007300BLR
8.0mm	50mm	6mm	3008000BGR	3008000BTR	3008000BLR
8.3mm	50mm	6mm	3008300BGR	3008300BTR	3008300BLR
9.4mm	50mm	6mm	3009400BGR	3009400BTR	3009400BLR
10.0mm	50mm	6mm	3010000BGR	3010000BTR	3010000BLR
10.4mm	50mm	6mm	3010400BGR	3010400BTR	3010400BLR
11.5mm	56mm	8mm	3011500BGR	3011500BTR	3011500BLR
12.4mm	56mm	8mm	3012400BGR	3012400BTR	3012400BLR
13.4mm	56mm	8mm	3013400BGR	3013400BTR	3013400BLR
15.0mm	60mm	10mm	3015000BGR	3015000BTR	3015000BLR
16.5mm	60mm	10mm	3016500BGR	3016500BTR	3016500BLR
19.0mm	63mm	10mm	3019000BGR	3019000BTR	3019000BLR
20.5mm	63mm	10mm	3020500BGR	3020500BTR	3020500BLR
23.0mm	67mm	10mm	3023000BGR	3023000BTR	3023000BLR
25.0mm	67mm	10mm	3025000BGR	3025000BTR	3025000BLR
28.0mm	71mm	12mm	3028000BGR	3028000BTR	3028000BLR
30.0mm	71mm	12mm	3030000BGR	3030000BTR	3030000BLR
31.0mm	71mm	12mm	3031000BGR	3031000BTR	3031000BLR
40.0mm	90mm	15mm	3040000BGR	3040000BTR	3040000BLR

Material Sheet

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



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
			NATURAL	TiN	TiANL
4.3mm	40mm	4mm	3004300CGR	3004300CTR	3004300CLR
5.0mm	40mm	4mm	3005000CGR	3005000CTR	3005000CLR
5.3mm	40mm	4mm	3005300CGR	3005300CTR	3005300CLR
5.8mm	45mm	5mm	3005800CGR	3005800CTR	3005800CLR
6.0mm	45mm	5mm	3006000CGR	3006000CTR	3006000CLR
6.3mm	45mm	5mm	3006300CGR	3006300CTR	3006300CLR
7.0mm	50mm	6mm	3007000CGR	3007000CTR	3007000CLR
7.3mm	50mm	6mm	3007300CGR	3007300CTR	3007300CLR
8.0mm	50mm	6mm	3008000CGR	3008000CTR	3008000CLR
8.3mm	50mm	6mm	3008300CGR	3008300CTR	3008300CLR
9.4mm	50mm	6mm	3009400CGR	3009400CTR	3009400CLR
10.0mm	50mm	6mm	3010000CGR	3010000CTR	3010000CLR
10.4mm	50mm	6mm	3010400CGR	3010400CTR	3010400CLR
11.5mm	56mm	8mm	3011500CGR	3011500CTR	3011500CLR
12.4mm	56mm	8mm	3012400CGR	3012400CTR	3012400CLR
13.4mm	56mm	8mm	3013400CGR	3013400CTR	3013400CLR
15.0mm	60mm	10mm	3015000CGR	3015000CTR	3015000CLR
16.5mm	60mm	10mm	3016500CGR	3016500CTR	3016500CLR
19.0mm	63mm	10mm	3019000CGR	3019000CTR	3019000CLR
20.5mm	63mm	10mm	3020500CGR	3020500CTR	3020500CLR
23.0mm	67mm	10mm	3023000CGR	3023000CTR	3023000CLR
25.0mm	67mm	10mm	3025000CGR	3025000CTR	3025000CLR
28.0mm	71mm	12mm	3028000CGR	3028000CTR	3028000CLR
30.0mm	71mm	12mm	3030000CGR	3030000CTR	3030000CLR
31.0mm	71mm	12mm	3031000CGR	3031000CTR	3031000CLR
40.0mm	90mm	15mm	3040000CGR	3040000CTR	3040000CLR

Application

- For deburring and countersink Best results at low cutting speed.



COUNTERSINKS

COUNTERSINKS



HSS / HSS-Co / HSS₄₃₄₁

3 FLUTES COUNTERSINKS 75°



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
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ϕ SPECIFICATION				ROUND		
	NATURAL	TiN	TiANL			
4.3mm	40mm	4mm	3104300AGR	3104300ATR	3104300ALR	
5.0mm	40mm	4mm	3105000AGR	3105000ATR	3105000ALR	
5.3mm	40mm	4mm	3105300AGR	3105300ATR	3105300ALR	
5.8mm	45mm	5mm	3105800AGR	3105800ATR	3105800ALR	
6.0mm	45mm	5mm	3106000AGR	3106000ATR	3106000ALR	
6.3mm	45mm	5mm	3106300AGR	3106300ATR	3106300ALR	
7.0mm	50mm	6mm	3107000AGR	3107000ATR	3107000ALR	
7.3mm	50mm	6mm	3107300AGR	3107300ATR	3107300ALR	
8.0mm	50mm	6mm	3108000AGR	3108000ATR	3108000ALR	
8.3mm	50mm	6mm	3108300AGR	3108300ATR	3108300ALR	
9.4mm	50mm	6mm	3109400AGR	3109400ATR	3109400ALR	
10.0mm	50mm	6mm	3110000AGR	3110000ATR	3110000ALR	
10.4mm	50mm	6mm	3110400AGR	3110400ATR	3110400ALR	
11.5mm	56mm	8mm	3111500AGR	3111500ATR	3111500ALR	
12.4mm	56mm	8mm	3112400AGR	3112400ATR	3112400ALR	
13.4mm	56mm	8mm	3113400AGR	3113400ATR	3113400ALR	
15.0mm	60mm	10mm	3115000AGR	3115000ATR	3115000ALR	
16.5mm	60mm	10mm	3116500AGR	3116500ATR	3116500ALR	
19.0mm	63mm	10mm	3119000AGR	3119000ATR	3119000ALR	
20.5mm	63mm	10mm	3120500AGR	3120500ATR	3120500ALR	
23.0mm	67mm	10mm	3123000AGR	3123000ATR	3123000ALR	
25.0mm	67mm	10mm	3125000AGR	3125000ATR	3125000ALR	
28.0mm	71mm	12mm	3128000AGR	3128000ATR	3128000ALR	
30.0mm	71mm	12mm	3130000AGR	3130000ATR	3130000ALR	
31.0mm	71mm	12mm	3131000AGR	3131000ATR	3131000ALR	
40.0mm	90mm	15mm	3140000AGR	3140000ATR	3140000ALR	



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
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ϕ SPECIFICATION				ROUND		
	NATURAL	TiN	TiANL			
4.3mm	40mm	4mm	3104300BGR	3104300BTR	3104300BLR	
5.0mm	40mm	4mm	3105000BGR	3105000BTR	3105000BLR	
5.3mm	40mm	4mm	3105300BGR	3105300BTR	3105300BLR	
5.8mm	45mm	5mm	3105800BGR	3105800BTR	3105800BLR	
6.0mm	45mm	5mm	3106000BGR	3106000BTR	3106000BLR	
6.3mm	45mm	5mm	3106300BGR	3106300BTR	3106300BLR	
7.0mm	50mm	6mm	3107000BGR	3107000BTR	3107000BLR	
7.3mm	50mm	6mm	3107300BGR	3107300BTR	3107300BLR	
8.0mm	50mm	6mm	3108000BGR	3108000BTR	3108000BLR	
8.3mm	50mm	6mm	3108300BGR	3108300BTR	3108300BLR	
9.4mm	50mm	6mm	3109400BGR	3109400BTR	3109400BLR	
10.0mm	50mm	6mm	3110000BGR	3110000BTR	3110000BLR	
10.4mm	50mm	6mm	3110400BGR	3110400BTR	3110400BLR	
11.5mm	56mm	8mm	3111500BGR	3111500BTR	3111500BLR	
12.4mm	56mm	8mm	3112400BGR	3112400BTR	3112400BLR	
13.4mm	56mm	8mm	3113400BGR	3113400BTR	3113400BLR	
15.0mm	60mm	10mm	3115000BGR	3115000BTR	3115000BLR	
16.5mm	60mm	10mm	3116500BGR	3116500BTR	3116500BLR	
19.0mm	63mm	10mm	3119000BGR	3119000BTR	3119000BLR	
20.5mm	63mm	10mm	3120500BGR	3120500BTR	3120500BLR	
23.0mm	67mm	10mm	3123000BGR	3123000BTR	3123000BLR	
25.0mm	67mm	10mm	3125000BGR	3125000BTR	3125000BLR	
28.0mm	71mm	12mm	3128000BGR	3128000BTR	3128000BLR	
30.0mm	71mm	12mm	3130000BGR	3130000BTR	3130000BLR	
31.0mm	71mm	12mm	3131000BGR	3131000BTR	3131000BLR	
40.0mm	90mm	15mm	3140000BGR	3140000BTR	3140000BLR	



ϕ SPECIFICATION				ROUND		
	NATURAL	TiN	TiANL			
4.3mm	40mm	4mm	3104300CGR	3104300CTR	3104300CLR	
5.0mm	40mm	4mm	3105000CGR	3105000CTR	3105000CLR	
5.3mm	40mm	4mm	3105300CGR	3105300CTR	3105300CLR	

COUNTERSINKS

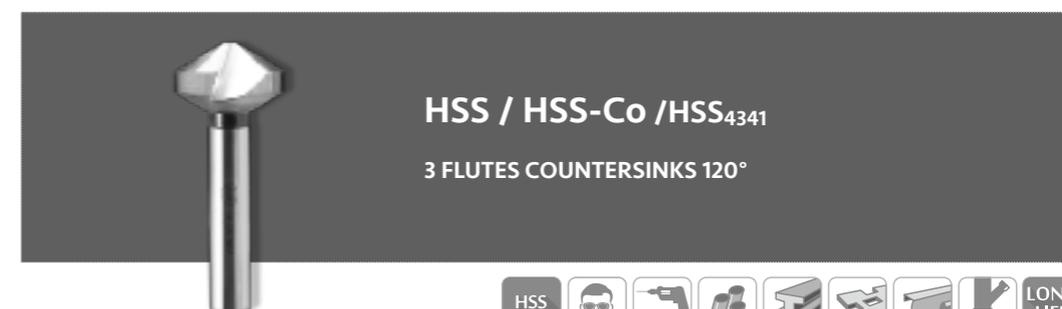
Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
5.8mm	45mm	5mm	3105800CGR	3105800CTR	3105800CLR
6.0mm	45mm	5mm	3106000CGR	3106000CTR	3106000CLR
6.3mm	45mm	5mm	3106300CGR	3106300CTR	3106300CLR
7.0mm	50mm	6mm	3107000CGR	3107000CTR	3107000CLR
7.3mm	50mm	6mm	3107300CGR	3107300CTR	3107300CLR
8.0mm	50mm	6mm	3108000CGR	3108000CTR	3108000CLR
8.3mm	50mm	6mm	3108300CGR	3108300CTR	3108300CLR
9.4mm	50mm	6mm	3109400CGR	3109400CTR	3109400CLR
10.0mm	50mm	6mm	3110000CGR	3110000CTR	3110000CLR
10.4mm	50mm	6mm	3110400CGR	3110400CTR	3110400CLR
11.5mm	56mm	8mm	3111500CGR	3111500CTR	3111500CLR
12.4mm	56mm	8mm	3112400CGR	3112400CTR	3112400CLR
13.4mm	56mm	8mm	3113400CGR	3113400CTR	3113400CLR
15.0mm	60mm	10mm	3115000CGR	3115000CTR	3115000CLR
16.5mm	60mm	10mm	3116500CGR	3116500CTR	3116500CLR
19.0mm	63mm	10mm	3119000CGR	3119000CTR	3119000CLR
20.5mm	63mm	10mm	3120500CGR	3120500CTR	3120500CLR
23.0mm	67mm	10mm	3123000CGR	3123000CTR	3123000CLR
25.0mm	67mm	10mm	3125000CGR	3125000CTR	3125000CLR
28.0mm	71mm	12mm	3128000CGR	3128000CTR	3128000CLR
30.0mm	71mm	12mm	3130000CGR	3130000CTR	3130000CLR
31.0mm	71mm	12mm	3131000CGR	3131000CTR	3131000CLR
40.0mm	90mm	15mm	3140000CGR	3140000CTR	3140000CLR

Material Sheet

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

Application

- For deburring and countersink Best results at low cutting speed.



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
4.3mm	40mm	4mm	3204300AGR	3204300ATR	3204300ALR
5.0mm	40mm	4mm	3205000AGR	3205000ATR	3205000ALR
5.3mm	40mm	4mm	3205300AGR	3205300ATR	3205300ALR
5.8mm	45mm	5mm	3205800AGR	3205800ATR	3205800ALR
6.0mm	45mm	5mm	3206000AGR	3206000ATR	3206000ALR
6.3mm	45mm	5mm	3206300AGR	3206300ATR	3206300ALR
7.0mm	50mm	6mm	3207000AGR	3207000ATR	3207000ALR
7.3mm	50mm	6mm	3207300AGR	3207300ATR	3207300ALR
8.0mm	50mm	6mm	3208000AGR	3208000ATR	3208000ALR
8.3mm	50mm	6mm	3208300AGR	3208300ATR	3208300ALR
9.4mm	50mm	6mm	3209400AGR	3209400ATR	3209400ALR
10.0mm	50mm	6mm	3210000AGR	3210000ATR	3210000ALR
10.4mm	50mm	6mm	3210400AGR	3210400ATR	3210400ALR
11.5mm	56mm	8mm	3211500AGR	3211500ATR	3211500ALR
12.4mm	56mm	8mm	3212400AGR	3212400ATR	3212400ALR
13.4mm	56mm	8mm	3213400AGR	3213400ATR	3213400ALR
15.0mm	60mm	10mm	3215000AGR	3215000ATR	3215000ALR
16.5mm	60mm	10mm	3216500AGR	3216500ATR	3216500ALR
19.0mm	63mm	10mm	3219000AGR	3219000ATR	3219000ALR
20.5mm	63mm	10mm	3220500AGR	3220500ATR	3220500ALR
23.0mm	67mm	10mm	3223000AGR	3223000ATR	3223000ALR
25.0mm	67mm	10mm	3225000AGR	3225000ATR	3225000ALR
28.0mm	71mm	12mm	3228000AGR	3228000ATR	3228000ALR
30.0mm	71mm	12mm	3230000AGR	3230000ATR	3230000ALR
31.0mm	71mm	12mm	3231000AGR	3231000ATR	3231000ALR
40.0mm	90mm	15mm	3240000AGR	3240000ATR	3240000ALR

COUNTERSINKS



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
			NATURAL	TiN	TiANL
4.3mm	40mm	4mm	3204300BGR	3204300BTR	3204300BLR
5.0mm	40mm	4mm	3205000BGR	3205000BTR	3205000BLR
5.3mm	40mm	4mm	3205300BGR	3205300BTR	3205300BLR
5.8mm	45mm	5mm	3205800BGR	3205800BTR	3205800BLR
6.0mm	45mm	5mm	3206000BGR	3206000BTR	3206000BLR
6.3mm	45mm	5mm	3206300BGR	3206300BTR	3206300BLR
7.0mm	50mm	6mm	3207000BGR	3207000BTR	3207000BLR
7.3mm	50mm	6mm	3207300BGR	3207300BTR	3207300BLR
8.0mm	50mm	6mm	3208000BGR	3208000BTR	3208000BLR
8.3mm	50mm	6mm	3208300BGR	3208300BTR	3208300BLR
9.4mm	50mm	6mm	3209400BGR	3209400BTR	3209400BLR
10.0mm	50mm	6mm	3210000BGR	3210000BTR	3210000BLR
10.4mm	50mm	6mm	3210400BGR	3210400BTR	3210400BLR
11.5mm	56mm	8mm	3211500BGR	3211500BTR	3211500BLR
12.4mm	56mm	8mm	3212400BGR	3212400BTR	3212400BLR
13.4mm	56mm	8mm	3213400BGR	3213400BTR	3213400BLR
15.0mm	60mm	10mm	3215000BGR	3215000BTR	3215000BLR
16.5mm	60mm	10mm	3216500BGR	3216500BTR	3216500BLR
19.0mm	63mm	10mm	3219000BGR	3219000BTR	3219000BLR
20.5mm	63mm	10mm	3220500BGR	3220500BTR	3220500BLR
23.0mm	67mm	10mm	3223000BGR	3223000BTR	3223000BLR
25.0mm	67mm	10mm	3225000BGR	3225000BTR	3225000BLR
28.0mm	71mm	12mm	3228000BGR	3228000BTR	3228000BLR
30.0mm	71mm	12mm	3230000BGR	3230000BTR	3230000BLR
31.0mm	71mm	12mm	3231000BGR	3231000BTR	3231000BLR
40.0mm	90mm	15mm	3240000BGR	3240000BTR	3240000BLR

Material Sheet

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



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.		
			NATURAL	TiN	TiANL
4.3mm	40mm	4mm	3204300CGR	3204300CTR	3204300CLR
5.0mm	40mm	4mm	3205000CGR	3205000CTR	3205000CLR
5.3mm	40mm	4mm	3205300CGR	3205300CTR	3205300CLR
5.8mm	45mm	5mm	3205800CGR	3205800CTR	3205800CLR
6.0mm	45mm	5mm	3206000CGR	3206000CTR	3206000CLR
6.3mm	45mm	5mm	3206300CGR	3206300CTR	3206300CLR
7.0mm	50mm	6mm	3207000CGR	3207000CTR	3207000CLR
7.3mm	50mm	6mm	3207300CGR	3207300CTR	3207300CLR
8.0mm	50mm	6mm	3208000CGR	3208000CTR	3208000CLR
8.3mm	50mm	6mm	3208300CGR	3208300CTR	3208300CLR
9.4mm	50mm	6mm	3209400CGR	3209400CTR	3209400CLR
10.0mm	50mm	6mm	3210000CGR	3210000CTR	3210000CLR
10.4mm	50mm	6mm	3210400CGR	3210400CTR	3210400CLR
11.5mm	56mm	8mm	3211500CGR	3211500CTR	3211500CLR
12.4mm	56mm	8mm	3212400CGR	3212400CTR	3212400CLR
13.4mm	56mm	8mm	3213400CGR	3213400CTR	3213400CLR
15.0mm	60mm	10mm	3215000CGR	3215000CTR	3215000CLR
16.5mm	60mm	10mm	3216500CGR	3216500CTR	3216500CLR
19.0mm	63mm	10mm	3219000CGR	3219000CTR	3219000CLR
20.5mm	63mm	10mm	3220500CGR	3220500CTR	3220500CLR
23.0mm	67mm	10mm	3223000CGR	3223000CTR	3223000CLR
25.0mm	67mm	10mm	3225000CGR	3225000CTR	3225000CLR
28.0mm	71mm	12mm	3228000CGR	3228000CTR	3228000CLR
30.0mm	71mm	12mm	3230000CGR	3230000CTR	3230000CLR
31.0mm	71mm	12mm	3231000CGR	3231000CTR	3231000CLR
40.0mm	90mm	15mm	3240000CGR	3240000CTR	3240000CLR

Application

- For deburring and countersink

COUNTERSINKS



HSS / HSS-Co

DIN335C 90° COUNTERSINKS LONG VERSION



Drilling Range(mm)	Length(mm)	Handle ϕ (mm)	Article No.					
ϕ SPECIFICATION			ROUND		ROUND			
			NATURAL	TIN	TiALN	NATURAL	TIN	TiALN
6.3	85	5	3306300AGR	3306300ATR	3306300ALR	3306300BGR	3306300BTR	3306300BLR
8.3	85	6	3308300AGR	3308300ATR	3308300ALR	3308300BGR	3308300BTR	3308300BLR
10.4	88	6	3301040AGR	3301040ATR	3301040ALR	3301040BGR	3301040BTR	3301040BLR
12.4	108	8	3301240AGR	3301240ATR	3301240ALR	3301240BGR	3301240BTR	3301240BLR
16.5	112	10	3301650AGR	3301650ATR	3301650ALR	3301650BGR	3301650BTR	3301650BLR
20.5	115	10	3302050AGR	3302050ATR	3302050ALR	3302050BGR	3302050BTR	3302050BLR
25.0	118	10	3302500AGR	3302500ATR	3302500ALR	3302500BGR	3302500BTR	3302500BLR



HSS / HSS-Co

DIN335C 90° COUNTERSINKS EXTRA LONG VERSION



Drilling Range(mm)	Length(mm)	Handle ϕ (mm)	Article No.					
ϕ SPECIFICATION			ROUND		ROUND			
			NATURAL	TIN	TiALN	NATURAL	TIN	TiALN
6.3	154	5	3406300AGR	3406300ATR	3406300ALR	3406300BGR	3406300BTR	3406300BLR
8.3	155	6	3408300AGR	3408300ATR	3408300ALR	3408300BGR	3408300BTR	3408300BLR
10.4	157	6	3401040AGR	3401040ATR	3401040ALR	3401040BGR	3401040BTR	3401040BLR
12.4	158	8	3401240AGR	3401240ATR	3401240ALR	3401240BGR	3401240BTR	3401240BLR
16.5	161	10	3401650AGR	3401650ATR	3401650ALR	3401650BGR	3401650BTR	3401650BLR
20.5	164	10	3402050AGR	3402050ATR	3402050ALR	3402050BGR	3402050BTR	3402050BLR

COUNTERSINKS

Application COUNTERSINKS 90°

HSS	Structural steel	Structural steel	Free-cutting steel	Tempered steel	Alloyed steel	Hardened steel	VA steel	VA steel	Tool steel	Cast iron	Copper	Aluminium +alby	Uni	Emulsion	Minimum Lubrication	Dry machining
	≤500 N/mm ²	≤500 N/mm ²	≤1000 N/mm ²	≤1000 N/mm ²	≤1200 N/mm ²	40-60 HRC	≤850 N/mm ²	>850 N/mm ²								
	●	●	●									●		●		
	○	●	●				○				○	●	●	●		○
	●	●	●	●	○		●	●	○						○	●
	●	●	●									●		●		○
	○	●	●				○				○	●	●	●		○
	●	○	○											●		○
	○	●	●				○				○	●	●	●		○

● recommended ○ partly suitable

Application COUNTERSINKS 60°/75°/120 °

HSS	Structural steel	Structural steel	Free-cutting steel	Tempered steel	Alloyed steel	Hardened steel	VA steel	VA steel	Tool steel	Cast iron	Copper	Aluminium +alby	Uni	Emulsion	Minimum Lubrication	Dry machining
	≤500 N/mm ²	≤500 N/mm ²	≤1000 N/mm ²	≤1000 N/mm ²	≤1200 N/mm ²	40-60 HRC	≤850 N/mm ²	>850 N/mm ²								
	●	●	○									●				○
	○	●	●				○				○	●	●	●		○
	●	●	○									●				○
	○	●	●				○				○	●	●	●		○
	●	●	○									●				○
	○	●	●				○				○		●	●		○

● recommended ○ partly suitable

COUNTERSINKS



Drilling Range(mm)	Length(mm)	Handleφ (mm)	Article No.	
15.0	85	1	3501500AGM	3501500ATM
16.5	85	1	3501650AGM	3501650ATM
19.0	100	2	3501900AGM	3501900ATM
20.5	100	2	3502050AGM	3502050ATM
23.0	106	2	3502300AGM	3502300ATM
25.0	106	2	3502500AGM	3502500ATM
26.0	106	2	3502600AGM	3502600ATM
28.0	112	2	3502800AGM	3502800ATM
30.0	112	2	3503000AGM	3503000ATM
31.0	112	2	3503100AGM	3503100ATM
34.0	118	2	3503400AGM	3503400ATM
37.0	118	2	3503700AGM	3503700ATM
40.0	140	3	3504000AGM	3504000ATM
45.0	145	3	3504500AGM	3504500ATM
50.0	150	3	3505000AGM	3505000ATM
63.0	180	4	3506300AGM	3506300ATM
80.0	190	4	3501500AGM	3501500ATM

Material Sheet

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



Drilling Range(mm)	Length(mm)	Handleφ (mm)	Article No.	
15.0	85	1	3601500AGM	3601500ATM
16.5	85	1	3601650AGM	3601650ATM
19.0	100	2	3601900AGM	3601900ATM
20.5	100	2	3602050AGM	3602050ATM
23.0	106	2	3602300AGM	3602300ATM
25.0	106	2	3602500AGM	3602500ATM
26.0	106	2	3602600AGM	3602600ATM
28.0	112	2	3602800AGM	3602800ATM
30.0	112	2	3603000AGM	3603000ATM
31.0	112	2	3603100AGM	3603100ATM
34.0	118	2	3603400AGM	3603400ATM
37.0	118	2	3603700AGM	3603700ATM
40.0	140	3	3604000AGM	3604000ATM
45.0	145	3	3604500AGM	3604500ATM
50.0	150	3	3605000AGM	3605000ATM
63.0	180	4	3606300AGM	3606300ATM
80.0	190	4	3601500AGM	3601500ATM

Application

- For deburring and countersink

COUNTERSINKS



COUNTERSINKS



HSS / HSS-Co / HSS₄₃₄₁
COUNTERSINKS SINGLE FLUTE WITH 82°



Drilling Range(mm)	Length(mm)	Handleø (mm)	Article No.								
			φ SPECIFICATION	NATURAL	TIN	NITRIDING	NATURAL	TIN	NITRIDING	NATURAL	TIN
3/16	1 1/2	3/16	4031600AGR	4031600ATR	4031600ANR	4031600BGR	4031600BTR	4031600BNR	4031600CGR	4031600CTR	4031600CNR
1/4	1 1/2	1/4	4014000AGR	4014000ATR	4014000ANR	4014000BGR	4014000BTR	4014000BNR	4014000CGR	4014000CTR	4014000CNR
5/16	1 5/8	1/4	4051600AGR	4051600ATR	4051600ANR	4051600BGR	4051600BTR	4051600BNR	4051600CGR	4051600CTR	4051600CNR
3/8	1 3/4	1/4	4038000AGR	4038000ATR	4038000ANR	4038000BGR	4038000BTR	4038000BNR	4038000CGR	4038000CTR	4038000CNR
1/2	2	1/4	4012000AGR	4012000ATR	4012000ANR	4012000BGR	4012000BTR	4012000BNR	4012000CGR	4012000CTR	4012000CNR
5/8	2 1/4	3/8	4058000AGR	4058000ATR	4058000ANR	4058000BGR	4058000BTR	4058000BNR	4058000CGR	4058000CTR	4058000CNR
3/4	2 5/8	1/2	4034000AGR	4034000ATR	4034000ANR	4034000BGR	4034000BTR	4034000BNR	4034000CGR	4034000CTR	4034000CNR
7/8	2 3/4	1/2	4078000AGR	4078000ATR	4078000ANR	4078000BGR	4078000BTR	4078000BNR	4078000CGR	4078000CTR	4078000CNR
1	2 3/4	1/2	4010000AGR	4010000ATR	4010000ANR	4010000BGR	4010000BTR	4010000BNR	4010000CGR	4010000CTR	4010000CNR
1 1/4	2 3/4	1/2	4011400AGR	4011400ATR	4011400ANR	4011400BGR	4011400BTR	4011400BNR	4011400CGR	4011400CTR	4011400CNR
1 1/2	2 7/8	3/4	4011200AGR	4011200ATR	4011200ANR	4011200BGR	4011200BTR	4011200BNR	4011200CGR	4011200CTR	4011200CNR
2	3 1/4	3/4	4020000AGR	4020000ATR	1020000ANR	4020000BGR	4020000BTR	1020000BNR	4020000CGR	4020000CTR	1020000CNR

HSS Single-Flute Countersinks

- 82° pointangle
- For use in deburring, countersinking and enlarging holes in sheet metal
- Used to countersink flat head screw and provide a smooth surface finish
- Will countersink holes much smaller than other styles
- **CBN Fully Ground:**A better and sharper cutting edge is achieved-without burrs
- Operate at comparatively high speed.

Material Sheet

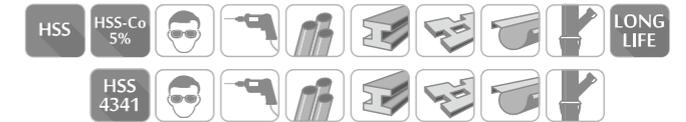
China	European	American	Japanese	HRC
HSS6542	HSS	M2	SKH-51	63-65
HSS Co5	HSS-E	M35	SKH-55	64-66

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.

COUNTERSINKS



HSS / HSS-Co / HSS₄₃₄₁
COUNTERSINKS 3 FLUTES WITH 82°



Drilling Range(mm)	Length(mm)	Handle (mm)	Article No.								
Φ SPECIFICATION			ROUND			ROUND			ROUND		
			NATURAL	TIN	NITRIDING	NATURAL	TIN	NITRIDING	NATURAL	TIN	NITRIDING
1/4	1 1/2	3/16	4114000AGR	4114000ATR	4114000ANR	4114000BGR	4114000BTR	4114000BNR	4114000CGR	4114000CTR	4114000CNR
3/8	1 3/4	1/4	4138000AGR	4138000ATR	4138000ANR	4138000BGR	4138000BTR	4138000BNR	4138000CGR	4138000CTR	4138000CNR
1/2	2	3/8	4112000AGR	4112000ATR	4112000ANR	4112000BGR	4112000BTR	4112000BNR	4112000CGR	4112000CTR	4112000CNR
5/8	2 1/4	3/8	4158000AGR	4158000ATR	4158000ANR	4158000BGR	4158000BTR	4158000BNR	4158000CGR	4158000CTR	4158000CNR
3/4	2 5/8	1/2	4134000AGR	4134000ATR	4134000ANR	4134000BGR	4134000BTR	4134000BNR	4134000CGR	4134000CTR	4134000CNR
1	2 3/4	1/2	4110000AGR	4110000ATR	4110000ANR	4110000BGR	4110000BTR	4110000BNR	4110000CGR	4110000CTR	4110000CNR
1 1/4	3	1/2	4111400AGR	4111400ATR	4111400ANR	4111400BGR	4111400BTR	4111400BNR	4111400CGR	4111400CTR	4111400CNR
1 1/2	3	1/2	4111200AGR	4111200ATR	4111200ANR	4111200BGR	4111200BTR	4111200BNR	4111200CGR	4111200CTR	4111200CNR
2	3 1/4	1/2	4120000AGR	4120000ATR	4120000ANR	4120000BGR	4120000BTR	4120000BNR	4120000CGR	4120000CTR	4120000CNR

HSS Three-Flute Countersinks (Center Reamers)

- 82° point angle
- For general-purpose countersink in portable power tools and stationary machine tools
- Used to countersink flat head screw
- Engineered to give a chatter - free performance
- **CBN Fully Ground:**A better and sharper cutting edge is achieved-without burrs
- Operate at low speeds.

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.

COUNTERSINKS



HSS / HSS-Co / HSS₄₃₄₁
COUNTERSINKS 6 FLUTES WITH 82°



Drilling Range(mm)	Length(mm)	Handleø (mm)	Article No.										
1/4	2	1/4	4214000AGR	4214000ATR	4214000ANR	4214000BGR	4214000BTR	4214000BNR	4214000CGR	4214000CTR	4214000CNR		
5/16	2	1/4	4251600AGR	4251600ATR	4251600ANR	4251600BGR	4251600BTR	4251600BNR	4251600CGR	4251600CTR	4251600CNR		
3/8	2	1/4	4238000AGR	4238000ATR	4238000ANR	4238000BGR	4238000BTR	4238000BNR	4238000CGR	4238000CTR	4238000CNR		
1/2	2	1/4	4212000AGR	4212000ATR	4212000ANR	4212000BGR	4212000BTR	4212000BNR	4212000CGR	4212000CTR	4212000CNR		
5/8	2 3/4	1/2	4258000AGR	4258000ATR	4258000ANR	4258000BGR	4258000BTR	4258000BNR	4258000CGR	4258000CTR	4258000CNR		
3/4	2 3/4	1/2	4234000AGR	4234000ATR	4234000ANR	4234000BGR	4234000BTR	4234000BNR	4234000CGR	4234000CTR	4234000CNR		
7/8	2 3/4	1/2	4278000AGR	4278000ATR	4278000ANR	4278000BGR	4278000BTR	4278000BNR	4278000CGR	4278000CTR	4278000CNR		
1	2 3/4	1/2	4210000AGR	4210000ATR	4210000ANR	4210000BGR	4210000BTR	4210000BNR	4210000CGR	4210000CTR	4210000CNR		
1 1/4	2 3/4	1/2	4211400AGR	4211400ATR	4211400ANR	4211400BGR	4211400BTR	4211400BNR	4211400CGR	4211400CTR	4211400CNR		
1 1/2	3 1/2	1/2	4211200AGR	4211200ATR	4211200ANR	4211200BGR	4211200BTR	4211200BNR	4211200CGR	4211200CTR	4211200CNR		
2	4 3/8	1	4220000AGR	4220000ATR	4220000ANR	4220000BGR	4220000BTR	4220000BNR	4220000CGR	4220000CTR	4220000CNR		

HSS Six-Flute Countersinks

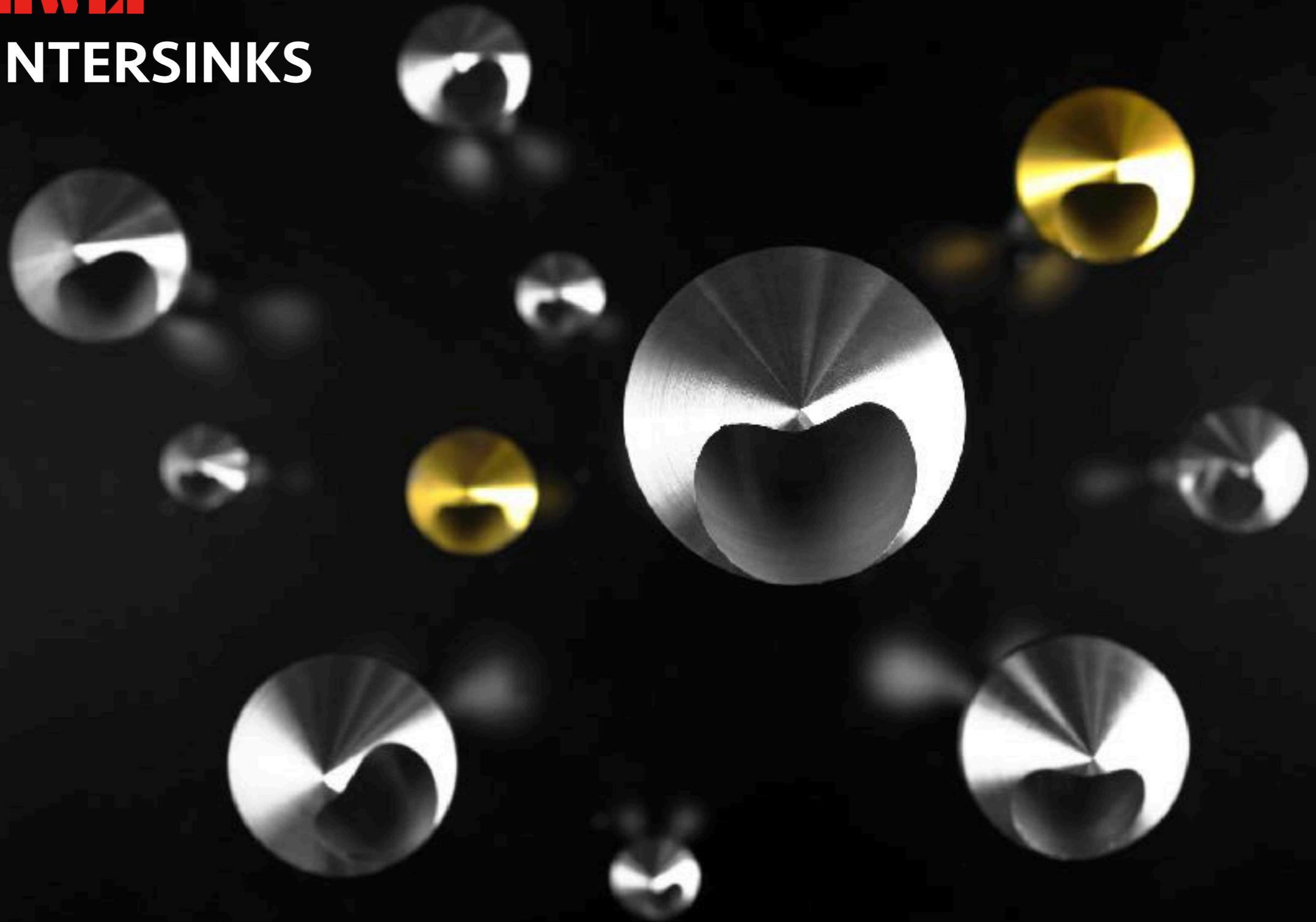
- 82° point angle
- For general-purpose countersink in portable power tools and stationary machine tools
- Designed for fast shearing cut
- Used to countersink flat head screw
- Smaller chip load for chatterless cutting
- **CBN Fully Ground:**A better and sharper cutting edge is achieved-without burrs
- Provides smooth finish

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.

 **SHIWEI**[®]
COUNTERSINKS



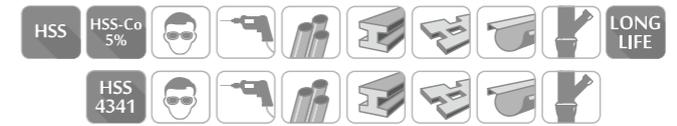
DEBURRING COUNTERSINKS



HSS / HSS₄₃₄₁

COUNTERSINKS WITH CROSS HOLE 82°

- Specifically designed to cut round countersunk holes in aluminum
- To make 60°, 82°, 90° and 100° cuts with greater ease
- Cut faster than standard countersinks
- Leave a finished hole every time
- Smooth drilling action from single cutting edge prevents chatter and fluted edges
- The 1/4 inch (6.4 millimeter) shank diameter fits any 1/4 or 3/8 inch (6.4 or 9.5 millimeter) drill chuck



Drilling Range(mm)	Length(mm)	Handleφ (mm)	Article No.							
			NATURAL	TIN	GREY	NATURAL	TIN	GREY		
19/64	1 1/2	1/4	4319640AGR	4319640ATR	4319640ASR	4319640CGR	4319640CTR	4319640CSR		
11/32	1 5/8	1/4	4311320AGR	4311320ATR	4311320ASR	4311320CGR	4311320CTR	4311320CSR		
25/64	1 5/8	1/4	4325640AGR	4325640ATR	4325640ASR	4325640CGR	4325640CTR	4325640CSR		
0.486	1 15/16	1/4	4304860AGR	4304860ATR	4304860ASR	4304860CGR	4304860CTR	4304860CSR		
9/16	1 61/64	1/4	4391600AGR	4391600ATR	4391600ASR	4391600CGR	4391600CTR	4391600CSR		
9/16	1 61/64	1/4	4391600AGR	4391600ATR	4391600ASR	4391600CGR	4391600CTR	4391600CSR		
13/16	2 3/32	1/4	4313160AGR	4313160ATR	4313160ASR	4313160CGR	4313160CTR	4313160CSR		



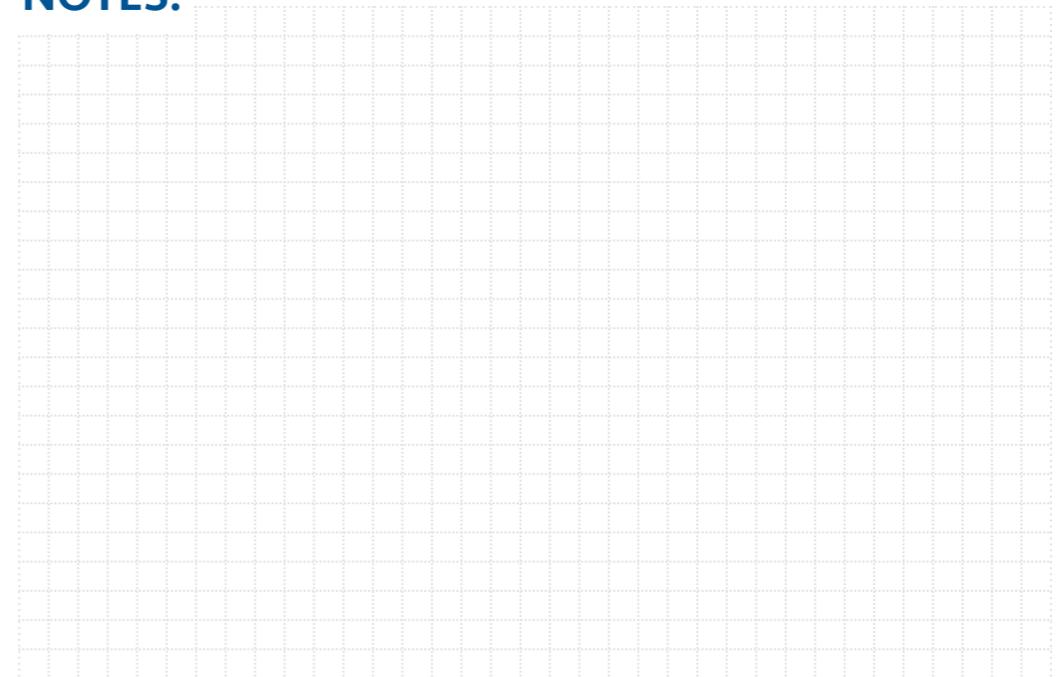
HSS/HSS-Co

COUNTERSINKS WITH CROSS HOLE 90° JAPANESE QUICK CHANGE SHANK



Drilling Range(mm)	Length(mm)	Handleφ (mm)	Article No.			
			NATURAL	TIN	NATURAL	TIN
2-5	44	1/4	4602500AGH	4602500ATH	4602500BGH	4602500BTH
5-10	46	1/4	4605100AGH	4605100ATH	4605100BGH	4605100BTH
10-15	64	1/4	4601015AGH	4601015ATH	4601015BGH	4601015BTH
15-20	74	1/4	4601520AGH	4601520ATH	4601520BGH	4601520BTH

NOTES:



DEBURRING COUNTERSINKS



Deburring Countersinks

- Specifically designed to cut round countersunk holes in aluminum
- To make 60°, 82°, 90° and 100° cuts with greater ease
- Cut faster than standard countersinks
- Leave a finished hole every time
- Smooth drilling action from single cutting edge prevents chatter and fluted edges
- The 1/4 inch (6.4 millimeter) shank diameter fits any 1/4 or 3/8 inch (6.4 or 9.5 millimeter) drill chuck

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.

Additional surface hardening

HSS TIN

- Colour
- Layer:
- Layer thickness:
- Surface hardness:
- Temperature resistant:
- Cooling:

Gold

Multilayer coating

up to 2 µm:

ca. 2.500 HV

bis 600° C

Not necessary but recommended

Advantages:

- High surface hardness
- Less coefficient of friction
- up to 25% longer tool life
- Reduces cold weldings

Application

- Particularly suitable for long-chip materials

DEBURRING COUNTERSINKS



HSS / HSS-Co / HSS₄₃₄₁
COUNTERSINKS WITH CROSS HOLE 90°



Drilling Range(mm)	Length(mm)	Handleφ (mm)	Article No.											
φ SPECIFICATION			ROUND	HEX	ROUND	HEX	ROUND	HEX	ROUND	HEX	ROUND	HEX	ROUND	HEX
			NATURAL	NATURAL	TIN	TIN	NATURAL	NATURAL	TIN	TIN	NATURAL	NATURAL	TIN	TIN
1-4	45	6.35	4514000AGR	4514000AGH	4514000ATR	4514000ATH	4514000BGR	4514000BGH	4514000BTR	4514000BTH	4514000CGR	4514000CGH	4514000CTR	4514000CTH
2-5	45	6	4525000AGR	4525000AGH	4525000ATR	4525000ATH	4525000BGR	4525000BGH	4525000BTR	4525000BTH	4525000CGR	4525000CGH	4525000CTR	4525000CTH
5-10	48	8	4551000AGR	4551000AGH	4551000ATR	4551000ATH	4551000BGR	4551000BGH	4551000BTR	4551000BTH	4551000CGR	4551000CGH	4551000CTR	4551000CTH
10-15	65	10	4510150AGR	4510150AGH	4510150ATR	4510150ATH	4510150BGR	4510150BGH	4510150BTR	4510150BTH	4510150CGR	4510150CGH	4510150CTR	4510150CTH
15-20	85	12	4515200AGR	4515200AGH	4515200ATR	4515200ATH	4515200BGR	4515200BGH	4515200BTR	4515200BTH	4515200CGR	4515200CGH	4515200CTR	4515200CTH
20-25	102	12	4520250AGR	4520250AGH	4520250ATR	4520250ATH	4520250BGR	4520250BGH	4520250BTR	4520250BTH	4520250CGR	4520250CGH	4520250CTR	4520250CTH
25-30	115	15	4525300AGR	4525300AGH	4525300ATR	4525300ATH	4525300BGR	4525300BGH	4525300BTR	4525300BTH	4525300CGR	4525300CGH	4525300CTR	4525300CTH
30-35	127	15	4530350AGR	4530350AGH	4530350ATR	4530350ATH	4530350BGR	4530350BGH	4530350BTR	4530350BTH	4530350CGR	4530350CGH	4530350CTR	4530350CTH
35-40	136	15	4535400AGR	4535400AGH	4535400ATR	4535400ATH	4535400BGR	4535400BGH	4535400BTR	4535400BTH	4535400CGR	4535400CGH	4535400CTR	4535400CTH

Application DEBURRING COUNTERSINKS 90°

HSS	Structural steel	Structural steel	Free-cutting steel	Tempered steel	Alloyed steel	Hardened steel	VA steel	VA steel	Tool steel	Cast iron	Copper	Aluminium +alby	Uni	Emulsion	Minimum Lubrication	Dry machining
	≤500 N/mm ²	≤500 N/mm ²	≤1000 N/mm ²	≤1000 N/mm ²	≤1200 N/mm ²	40-60 HRC	≤850 N/mm ²	>850 N/mm ²	≤1000 N/mm ²	≤300 HB	≤400 N/mm ²	≤450 N/mm ²				
	●	●	●				●			○	●	●	○	●		○
	○	●	●				○				○	●	●	●		○

● recommended ○ partly suitable

DRILLS & COUNTERSINKS



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.			
ϕ SPECIFICATION			$1/4"$			
			NATURAL	TIN	NATURAL	TIN
6.3--3	55	1/4	6906303AGH	6906303ATH	6906303BGH	6906303BTH
8.3--4	60	1/4	6908304AGH	6908304ATH	6908304BGH	6908304BTH
10.4--5	62	1/4	6910405AGH	6910405ATH	6910405BGH	6910405BTH
12.4--6	64	1/4	6912406AGH	6912406ATH	6912406BGH	6912406BTH
16.5--8	67	1/4	6916508AGH	6916508ATH	6916508BGH	6916508BTH
20.5--10	70	1/4	6920510AGH	6920510ATH	6920510BGH	6920510BTH



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.			
ϕ SPECIFICATION			$1/4"$			
			NATURAL	TIN	NATURAL	TIN
6.3--3	55	1/4	7006303AGH	7006303ATH	7006303BGH	7006303BTH
8.3--4	60	1/4	7008304AGH	7008304ATH	7008304BGH	7008304BTH
10.4--5	62	1/4	7010405AGH	7010405ATH	7010405BGH	7010405BTH
12.4--6	64	1/4	7012406AGH	7012406ATH	7012406BGH	7012406BTH
16.5--8	67	1/4	7016508AGH	7016508ATH	7016508BGH	7016508BTH
20.5--10	70	1/4	7020510AGH	7020510ATH	7020510BGH	7020510BTH



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.			
ϕ SPECIFICATION			$1/4"$			
			NATURAL	TIN	NATURAL	TIN
6.3--3	55	1/4	7106303AGH	7106303ATH	7106303BGH	7106303BTH
8.3--4	60	1/4	7108304AGH	7108304ATH	7108304BGH	7108304BTH
10.4--5	62	1/4	7110405AGH	7110405ATH	7110405BGH	7110405BTH
12.4--6	64	1/4	7112406AGH	7112406ATH	7112406BGH	7112406BTH
16.5--8	67	1/4	7116508AGH	7116508ATH	7116508BGH	7116508BTH
20.5--10	70	1/4	7120510AGH	7120510ATH	7120510BGH	7120510BTH



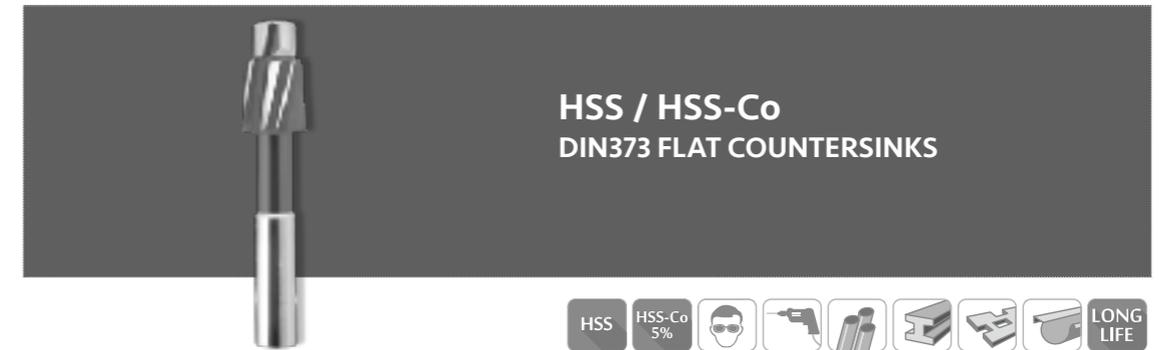
Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.			
ϕ SPECIFICATION			$1/4"$			
			NATURAL	TIN	NATURAL	TIN
6.3	45	11	6806300AGH	6806300ATH	6806300BGH	6806300BTH
8.3	50	11	6808300AGH	6808300ATH	6808300BGH	6808300BTH
10.4	50	11	6801040AGH	6801040ATH	6801040BGH	6801040BTH
12.4	56	11	6801240AGH	6801240ATH	6801240BGH	6801240BTH
16.5	60	11	6801650AGH	6801650ATH	6801650BGH	6801650BTH
20.5	63	11	6802050AGH	6802050ATH	6802050BGH	6802050BTH
25	67	11	6802500AGH	6802500ATH	6802500BGH	6802500BTH
31	71	11	6803100AGH	6803100ATH	6803100BGH	6803100BTH

FLAT COUNTERSINKS



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.			
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 SPECIFICATION	 mm	 ROUND	NATURAL		TIN	
			NATURAL	TIN	NATURAL	TIN
M3	71	5	5903071AGR	5903071ATR	5903071BGR	5903071BTR
M4	71	5	5904071AGR	5904071ATR	5904071BGR	5904071BTR
M5	80	7	5905080AGR	5905080ATR	5905080BGR	5905080BTR
M6	80	7	5906080AGR	5906080ATR	5906080BGR	5906080BTR
M7	90	7	5907090AGR	5907090ATR	5907090BGR	5907090BTR
M8	100	11	5908100AGR	5908100ATR	5908100BGR	5908100BTR
M9	100	14.5	5909100AGR	5909100ATR	5909100BGR	5909100BTR
M10	100	11	5910100AGR	5910100ATR	5910100BGR	5910100BTR
M11	100	17	5911100AGR	5911100ATR	5911100BGR	5911100BTR
M12	100	11	5912100AGR	5912100ATR	5912100BGR	5912100BTR
M13	100	20.5	5913100AGR	5913100ATR	5913100BGR	5913100BTR
M14	100	11	5914100AGR	5914100ATR	5914100BGR	5914100BTR
M15	100	20.5	5915100AGR	5915100ATR	5915100BGR	5915100BTR
M16	100	11	5916100AGR	5916100ATR	5916100BGR	5916100BTR



Size ϕ (mm)	Total Length(mm)	Shank Hexagon	Article No.			
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 SPECIFICATION	 mm	 ROUND	NATURAL		TIN	
			NATURAL	TIN	NATURAL	TIN
M3	71	5	6003071AGR	6003071ATR	6003071BGR	6003071BTR
M4	71	5	6004071AGR	6004071ATR	6004071BGR	6004071BTR
M5	80	7	6005080AGR	6005080ATR	6005080BGR	6005080BTR
M6	80	7	6006080AGR	6006080ATR	6006080BGR	6006080BTR
M7	90	7	6007090AGR	6007090ATR	6007090BGR	6007090BTR
M8	100	11	6008100AGR	6008100ATR	6008100BGR	6008100BTR
M9	100	14.5	6009100AGR	6009100ATR	6009100BGR	6009100BTR
M10	100	11	6010100AGR	6010100ATR	6010100BGR	6010100BTR
M11	100	17	6011100AGR	6011100ATR	6011100BGR	6011100BTR
M12	100	11	6012100AGR	6012100ATR	6012100BGR	6012100BTR
M13	100	20.5	6013100AGR	6013100ATR	6013100BGR	6013100BTR
M14	100	11	6014100AGR	6014100ATR	6014100BGR	6014100BTR
M15	100	20.5	6015100AGR	6015100ATR	6015100BGR	6015100BTR
M16	100	11	6016100AGR	6016100ATR	6016100BGR	6016100BTR

COUNTERSINK SETS

How to understand our Article No.

SETS:

Product category: PRODUCT CATEGORY

Material: HSS, HSS-Co 5%, Me-A, HSS CO-B

Handle: ROUND, T, H

61 01 P00 A G R

Set Content:

6.3/8.3/10.4/ 12.4/16.5/20.5	01
6/8/10/12/16/20	02
10/10.4/20.5	03
16.5/20.5/25	04
6.3/8.3/12.4/16.5/25	05
2.5/5-10/10-15/15-20	06
3/4/5/6/8/10/12/	07
10PC 1.0-10 x0.5	08

Packing Box: PLASTIC (P00), STEEL (L00), ROSE (R00)

Surface treatment: NATURAL, TiN, Natural color-G, Ti-T

Set Content:

3.4.5.6.8.10	060
6.3,8.3,10.4,12.4,16.5,20.5	060

Packing Box: ROSE (RO)

HSS / HSS-Co
6PCS COUNTERSINK SET

6-Flats Shaft

HSS HSS-Co 5%

Set Content	Article No.						
	ROUND	T	H				
	NATURAL	TiN	NATURAL	TiN	NATURAL	TiN	
6.3/8.3/10.4/ 12.4/16.5/20.5	PLASTIC	6101P00AGR	6101P00ATR	6101P00AGT	6101P00ATT	6101P00AGH	6101P00ATH
	STEEL	6101I00AGR	6101I00ATR	6101I00AGT	6101I00ATT	6101I00AGH	6101I00ATH
	ROSE	6101R00AGR	6101R00ATR	6101R00AGT	6101R00ATT	6101R00AGH	6101R00ATH
		6101P00BGR	6101P00BTR	6101P00BGT	6101P00BTT	6101P00BGH	6101P00BTH
		6101I00BGR	6101I00BTR	6101I00BGT	6101I00BTT	6101I00BGH	6101I00BTH
		6101R00BGR	6101R00BTR	6101R00BGT	6101R00BTT	6101R00BGH	6101R00BTH

HSS / HSS-Co
5PCS COUNTERSINK SET WITH CROSS HOLE

5-Flats Shaft

HSS HSS-Co 5%

Set Content	Article No.						
	ROUND	T	H				
	NATURAL	TiN	NATURAL	TiN	NATURAL	TiN	
2-5/5-10/10-15/15-20	ROSE	6306R00AGR	6306R00ATR	6306R00AGT	6306R00ATT	6306R00AGH	6306R00ATH
		6306R00BGR	6306R00BTR	6306R00BGT	6306R00BTT	6306R00BGH	6306R00BTH

HSS / HSS-Co
6PCS COUNTERSINK SET WITH ROUND FLUTES

6-Flats Shaft

HSS HSS-Co 5%

Set Content	Article No.						
	ROUND	T	H				
	NATURAL	TiN	NATURAL	TiN	NATURAL	TiN	
6/8/10/12/16/20	PLASTIC	6102P00AGR	6102P00ATR	6102P00AGT	6102P00ATT	6102P00AGH	6102P00ATH
	STEEL	6102I00AGR	6102I00ATR	6102I00AGT	6102I00ATT	6102I00AGH	6102I00ATH
	ROSE	6102R00AGR	6102R00ATR	6102R00AGT	6102R00ATT	6102R00AGH	6102R00ATH
		6102P00BGR	6102P00BTR	6102P00BGT	6102P00BTT	6102P00BGH	6102P00BTH
		6102I00BGR	6102I00BTR	6102I00BGT	6102I00BTT	6102I00BGH	6102I00BTH
		6102R00BGR	6102R00BTR	6102R00BGT	6102R00BTT	6102R00BGH	6102R00BTH

COUNTERSINK SETS



HSS / HSS-Co
3PCS COUNTERSINK SET
3-Flats Shaft



Set Content		Article No.			
 10/14.4/20.5 ROSE	 6103R00AGR 6103R00BGR	 6103R00ATR 6103R00BTR	 6103R00ALR 6103R00BLR	 6103R00AOR 6103R00BOR	



HSS / HSS-Co
3PCS COUNTERSINK SET
3-Flats Shaft



Set Content		Article No.			
 16.5/20.5/25 ROSE	 6104R00AGR 6104R00BGR	 6104R00ATR 6104R00BTR	 6104R00ALR 6104R00BLR	 6104R00AOR 6104R00BOR	



HSS / HSS-Co
3PCS COUNTERSINK SET
3-Flats Shaft




HSS / HSS-Co
7PCS FLAT COUNTERSINK SET
7-Flats Shaft



Set Content		Article No.	
 3/4/5/6/8/10/12/ STEEL	 6407100AGR 6407100ATR		



HSS / HSS-Co
COMBINATION DRILL AND COUNTERSINKS
WITH 1/4" HEX QUICK CHANGE SHANK
6-Flats Shaft



Set Content		Article No.			
 6.3,8.3,10.4,12.4,16.5,20.5 ROSE	 76060R0AGH 76060R0ATH	 76060R0BTH	 76060R0BGH		

Set Content		Article No.			
 10.4/12.4/16.5 ROSE	 61033R00AGR 61033R00BGR	 61033R00ATR 61033R00BTR	 61033R00ALR 61033R00BLR	 61033R00AOR 61033R00BOR	

SYMBOL INDEX

GENGRAL 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

