ZCC·CT

TOOLS FOR WORLD TOOLS FOR WEALTH

ZHUZHOU CEMENTED CARBIDE CUTTING TOOLS CO., LTD.

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ZHUZHOU CEMENTED CARBIDE CUTTING TOOLS CO., LTD.

Company profile

Zhuzhou Cemented Carbide Cutting Tools Co, Ltd. (ZCC•CT) was established in the Zhuzhou High-tech Industrial and Development Zone in June 2002. As the subsidiary of the China Tungsten and Hightech Materials, ZCC•CT also takes an essential position in the China Minmetals Corporation.

ZCC•CT built up the world class production lines of indexable inserts, tool holders, solid carbide drilling tool, end mills and etc. The combination of production, sales, and R&D brings ZCC•CT to the leading position of the tungsten carbide cutting tools supplier in China.

회사 프로필

Zhuzhou 시멘트 초경 절삭 공구 유한 회사 (ZCCCT) 는 2002 년 6 월 Zhuzhou Hightech 산업 개발구에 설립되었습니다 . China Tungsten 및 Hightech Materials 의 자회사 인 ZCCCT 는 China Minmetals Corporation 에서도 주요한 지위를 차지하고 있습니다 .

ZCCCT 는 세계적인 수준의 인서트 , 툴홀더 , 솔리드 초경 드릴링 공구 , 엔드밀 등의 생산 라인을 구축했습니다 . 생산 , 판매 및 R & D 의 결합은 ZCCCT 를 중국에서 텅스텐 카바이드 절삭 공구 공급 업체로 선도적인 위치에 서게 했습니다 .





Development History

1954,

The first cemented carbide production line was established in ZCC, China.

1988,

In 1988, the high precision indexable inserts production lines were introduced from Sweden, which was also the beginning of the Chinese high precision indexable inserts industry.

1992,

The advanced foreign technology and equipment helped ZCC•CT to establish the production lines of solid carbide drilling and end mills which paved the road of the development of cemented carbide cutting tools industry.

2002,

ZCC•CT was established from ZCC Group with the specialization in cutting tools.

2003,

The R&D center was officially established in 2003. The world-class material testing, design development, cutting experiments and performance testing which provided solid technical support for ZCC•CT.

2006,

The establishments of the subsidiary of ZCC•CT Europe and ZCC•CT USA gave the chances for the development of oversea markets, but also laid the foundation of strategic globalization.

2008,

The engineering research center for high-efficiency carbide cutting tools of the mechanical industry was established in 2008.

2010,

The merge with the China Minmetals provided a larger platform for the long-term development in 2010.

2011,

The Foundation of the China Minmetals, ZCC•CT High Precision Tools industrial Zone in 2011.

2015,

The key laboratory of cemented carbide was established in 2015.

2018,

ZCC•CT made the acquisition of the German company – HPTec in 2018.

개발 연혁

첫번째 초경합금 생산라인은 중국 ZHUZHOU 에 설립되었습니다 .

1988 년에 고정밀 인덱서블 인서트 생산 라인이 스웨덴에서 도입되었는데 , 이는 중국 고정밀 인서트 산업의 시작이었습니다 .

선진 외국 기술 및 장비는 ZCC•CT 가 초경 절삭 공구 산업의 발전의 길을 닦은 솔리드 초경 드릴링 공구 및 엔드밀 공구의 생산 라인을 확립하는 것을 도왔습니다 .

ZCC•CT 는 2002 년 절삭공구에 전문화되도록 ZCC Group 에서 설립되었습니다 .

R & D 센터는 2003 년에공식적으로설립되었습니다 . 이는세계적인수준의소재테스트 , 설계개발 , 절삭실험과성능테스트을통해 ZCC•CT 에기술적인지원을제공하였습니다 .

ZCC•CT Europe 및 ZCC•CT USA 의 자회사는 해외 시장 개척의 기회를 제공 할뿐 아니라 전략적 세계화의 기반을 마련했습니다 .

2008 년에 기계 산업의 고효율 초경 절삭 공구 엔지니어링 연구 센터가 설립되었습니다 .

2010 년 , China Minmetals 와의 합병은 장기적인 발전을 위한 더 큰 플랫폼을 제공했습니다 .

2011 년 , China Minmetals 와 ZCC•CT 고정밀 공구 공업지대 설립 .

2015 년 , 초경합금의 핵심적인 실험실이 설립되었습니다 .

2018 년 , ZCC•CT 는 독 일 회 사 인 HPTec 을인수했습니다 .

Advanced Production Lines

고급 생산 라인



1



2

1 Indexable inserts production line

2 Solid carbide tools production line

3 Brazed tip inserts production line

4 Tool holder production line

1 인덱서블 인서트 생산라인

2 솔리드 초경공구 생산라인

3 납땜된 팁 인서트 생산라인

4 툴 홀더 생산라인



3



4

-All of ZCC•CT's products come from advanced production lines with high precision equipment.

모든 ZCCCT 의 제품들은 고급 생산라인과 고정밀 장비로 만듭니다 .



Research and development

연구 개발

ZCC•CT builds up the technology center and cemented carbide key laboratory which consist of the most advanced cutting tools research and development center in China. The research equipment has reached world-class levels. Moreover, ZCC•CT hires a group of influential technology specialists and leaders in the industry.

For years, ZCC•CT has participated in 30 special research projects which include the application fields of aerospace, mould and die, automobile, rail transportation, and energy industries. Those projects helped ZCC•CT to obtain series of research achievements with independent intellectual property rights. And most of the researches have been successfully industrialized.

The ZCC•CT R&D center establishes several research platforms which contain material research, design, cutting experiments, application research and etc.

All the research and development helped ZCC•CT to apply nearly 500 patents, authorized 357 patents and 8 PCT international patents. The number of patent ownership is far ahead of other domestic competitors.

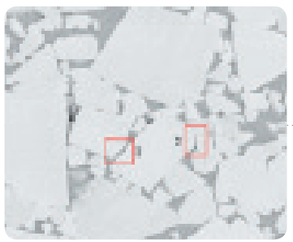
ZCC•CT 는중국에서도가장최첨단인절삭공구연구개발센터로구성된기술센터및초경핵심실험실을구축했습니다 . 연구장비는세계적수준에도달했습니다 . 또한 ZCC•CT 는업계에서영향력있는기술전문가및리더들을고용합니다 .

수년간 ZCC•CT 는우주항공 , 금형및다이스 , 자동차 , 철도운송및에너지산업의응용분야를포함한 30 개의특수연구프로젝트에참여해왔습니다 . 이러한프로젝트를통해 ZCC•CT 는독립적인지적재산권을보유한일련의연구성과를얻을수있었습니다 . 그리고대부분의연구는성공적으로산업화되었습니다 .

ZCC•CT R & D 센터는소재연구 , 설계 , 절단실험 , 적용연구등을포함하는여러리서치플랫폼을구축합니다 .

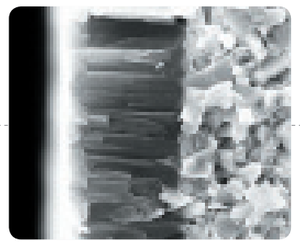
모든연구개발은 ZCC•CT 가거의 500 건의특허를신청하고 , 357 건의특허와 8 건의 PCT 국제특허를획득하도록도왔습니다 .

Research of substrate material



기판 소재 연구

Research of coating technology

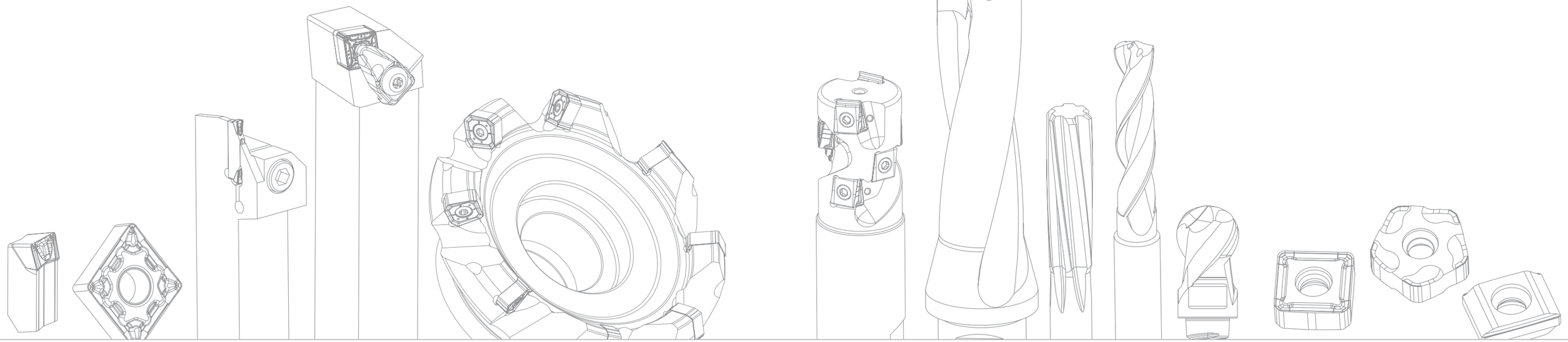


코팅 기술 연구

Research of structure of cutting tools



절삭공구의 구조 연구



Major product

ZCC•CT has a complete product category which can be widely used in all the types of machining. The product range covers the different grade of PVD, CVD, ceramics, and extra-hard material. The product includes indexable cemented carbide inserts and indexable cutting tools, solid carbide cutting tools and tool system. The combination of different grades and cutting tools can be applied in high precision turning, milling, boring, drilling, parting, grooving, and threading. With the high degree of product variety, ZCC•CT enables to consider different requirements of customers and provide sets of different solutions accordingly.

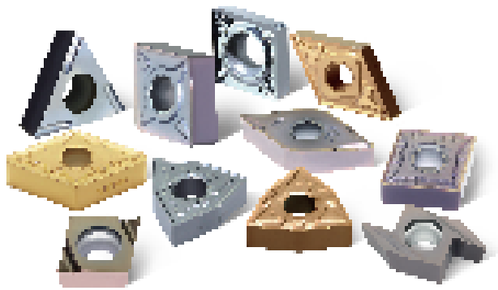
주요 제품군

ZCC•CT 는 모든 유형의 가공에 널리 사용될 수있는 완벽한 제품 카테고리를 보유하고 있습니다 . 제품 범위는 PVD, CVD, 세라믹 및 매우 단단한 소재의 각기 다른 재종을 포함합니다 . 이 제품에는 인덱서블 초경 인서트 및 인덱서블 절삭 공구 , 초경 절삭 공구 및 공구 장치가 포함됩니다 . 여러 가지 재종과 절삭 공구들의 조합은 고정밀 터닝 , 밀링 , 보링 , 드릴링 , 절단 , 홈 가공 및 나사 가공에 적용 할 수 있습니다 . 완벽한 제품군을 갖춘 ZCCCT 는 고객의 다양한 요구 사항을 고려하고 이에 따라 다양한 솔루션 세트를 제공 할 수 있습니다 .

주요 제품군

Turning 터닝

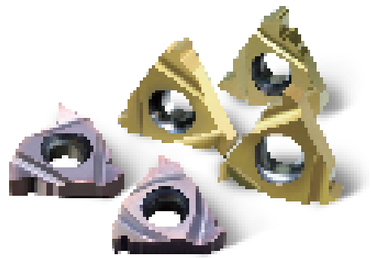
- General turning inserts
- 일반 터닝인서트



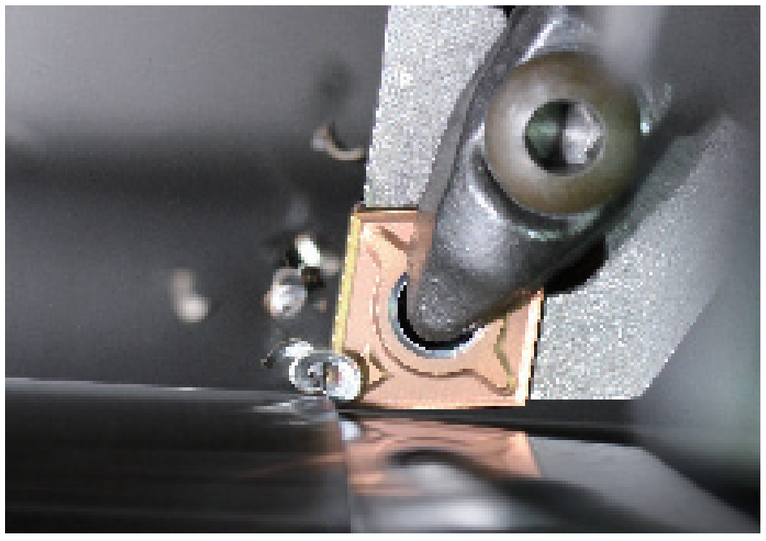
- Parting and grooving inserts
- 절단 및 홈 인서트

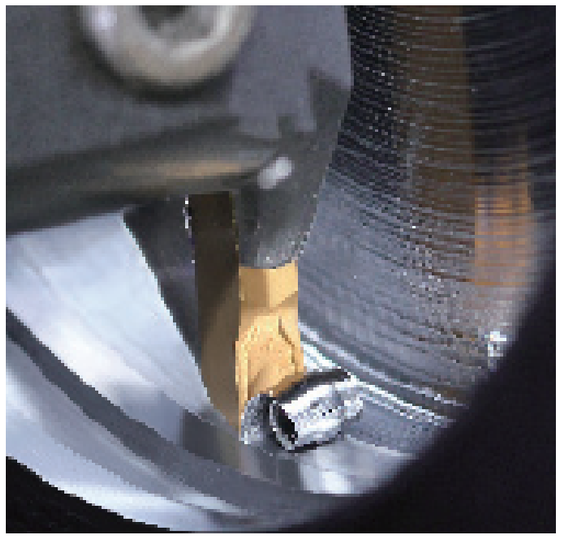


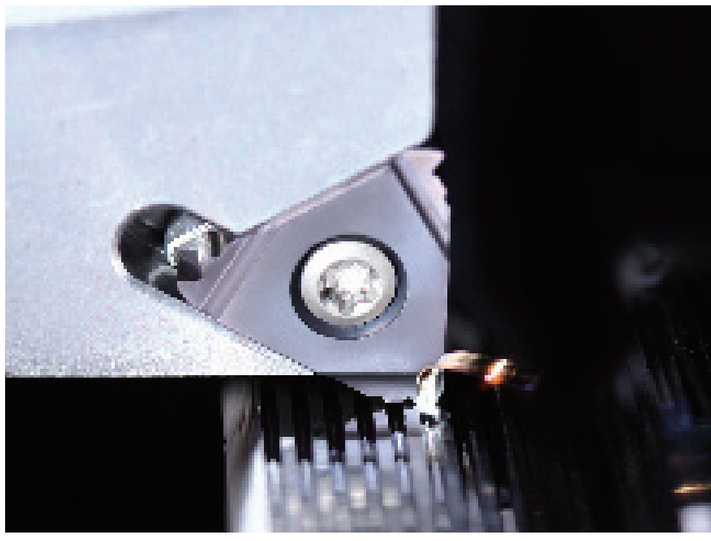
- Threading inserts
- 나사 인서트









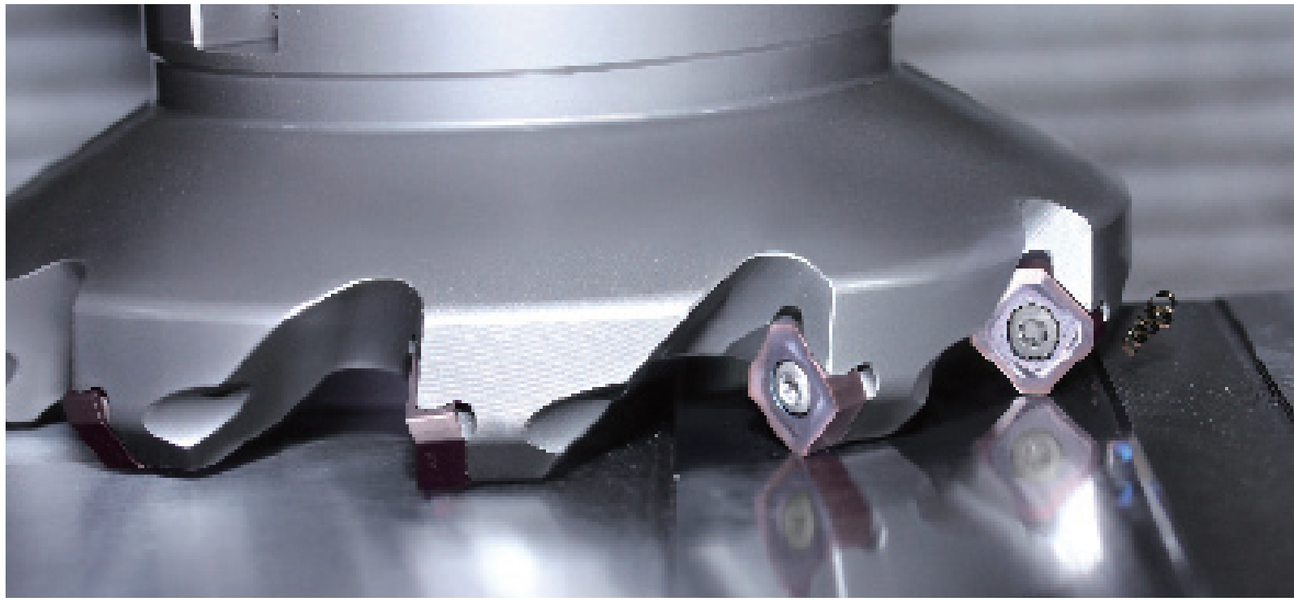


주요 제품군

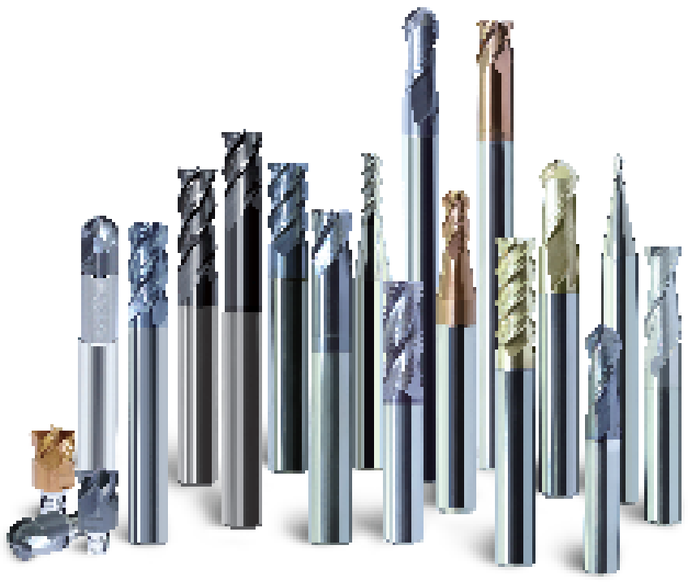
Milling 밀링

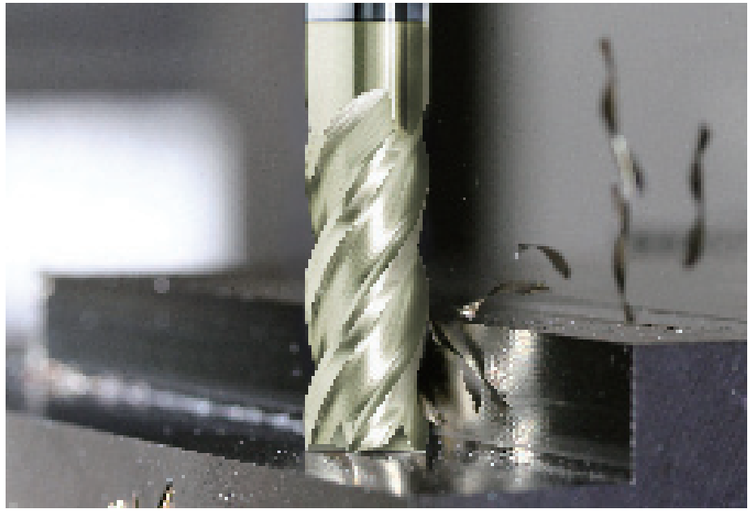
- indexable milling tools
- 인덱서블밀링 공구

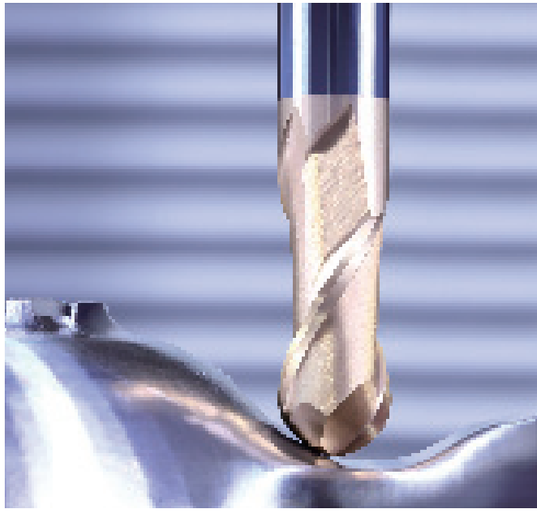


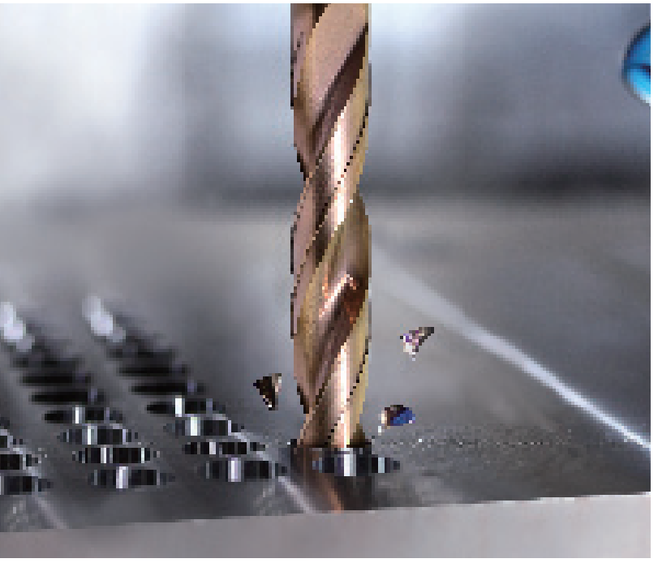


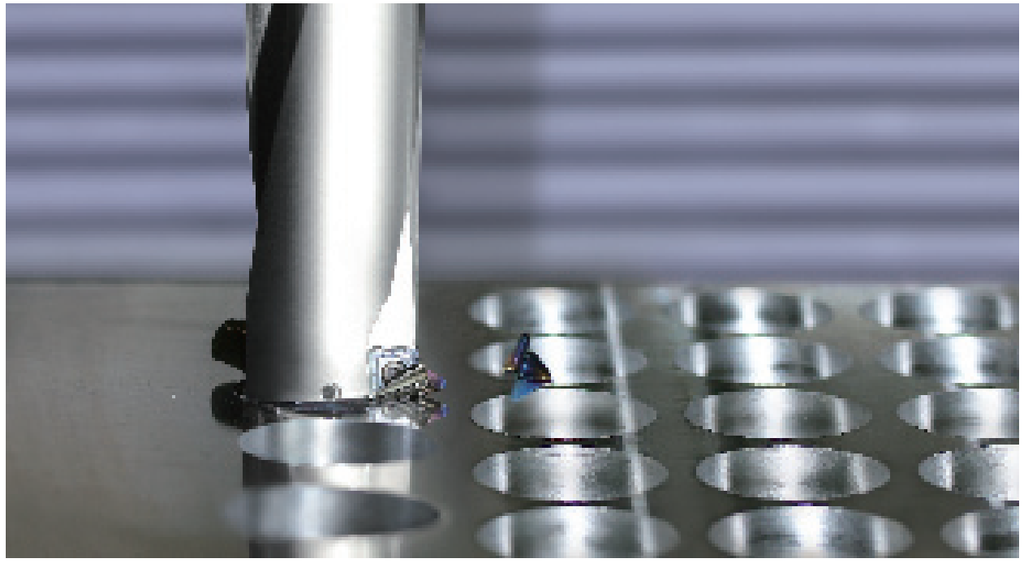
- Solid carbide end mills
- 초경 엔드밀













Hole making 홀 가공

- Drills
- 드릴



- Reamers
- 리머



- Thread cutters
- 나사 커터



- Boring system
- 보링 시스템



Applications

Automotive industry

자동차 산업

ZCC•CT has developed dozens of series high-efficiency cutting tools for automotive with independent intellectual property rights. ZCC•CT enables to offer both solutions and tools for automotive manufacturers. The products from ZCC•CT are widely applied in machining of engines and other automotive components with better machining quality, more efficient, and more economical.

ZCC•CT 는지적재산권을보유한자동차용수십가지고효율절삭공구를개발했습니다 .ZCC•CT 는자동차제조업체를위한솔루션과툴들을모두제공할수있습니다 .ZCC•CT 의제품은보다우수한가공품질 , 더효율적이고경제적으로엔진및기타자동차부품가공에광범위하게적용됩니다 .



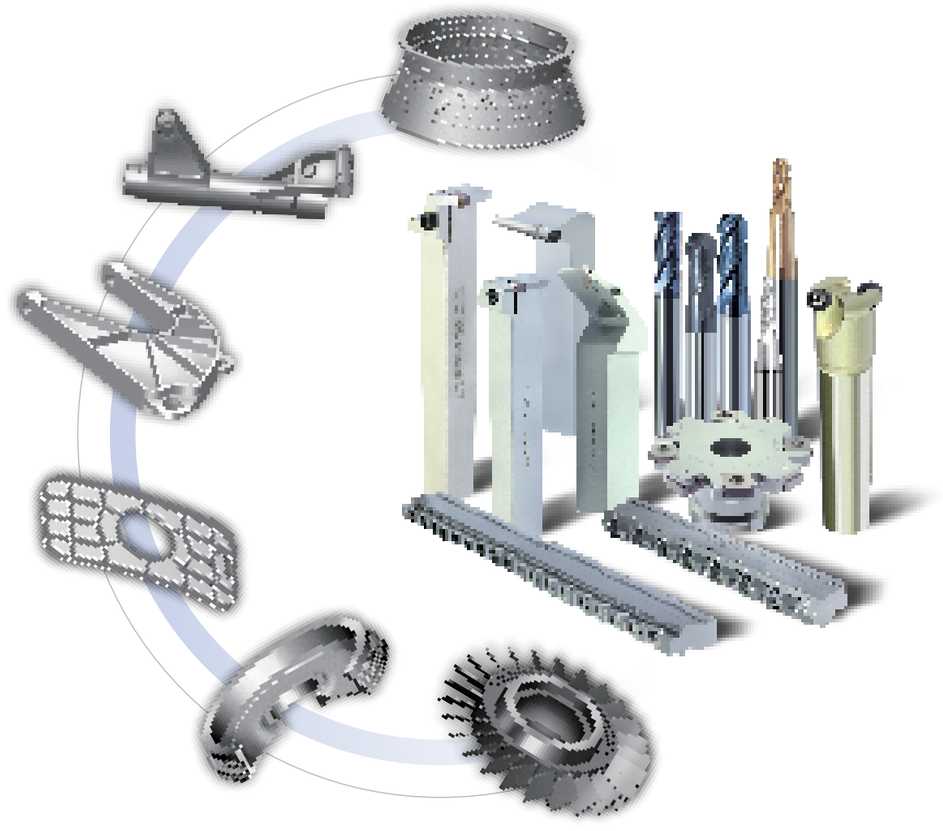
산업 솔루션

Aerospace Industry

항공 우주 산업

Thanks to the close partnership with several aerospace enterprises, ZCC•CT has developed multiple series of cutting tools with independent intellectual property rights. The establishment of a high-efficiency indexable tool system for machining titanium alloy, high-heat resistance alloy and aluminum alloy which enables ZCC•CT to provide feature solutions to customers.

여러우주항공기업과의긴밀한파트너십덕분에 ZCC•CT 는독립적인지적재산권을보유한다양한일련의절삭공구를개발했습니다 . 티타늄합금 , 고내열합금및알루미늄합금가공용고효율인덱서블툴시스템구축으로 ZCC•CT 는고객에게기능솔루션을제공할수있습니다 .



Applications

Power Generation Industry
발전 사업

ZCC•CT provides feature solutions for the machining components of thermal power, nuclear power, hydropower, wind power. Several famous domestic energy equipment manufacturers choose the products from ZCC•CT which will benefit the green earth and continue the sustainable development of safe energy.

ZCC•CT 는화력，원자력，수력，풍력의가공부품에대한기능솔루션을제공합니다．몇몇유명한국내에너지장비제조업체는 ZCC•CT 의친환경지구에도움이되는제품을선택하고안전한에너지의지속가능한개발을지속합니다．



Rail transportation industry
철도 운송 산업

The products from ZCC•CT are suitable for turnout machining, railway machining, and wheel hub machining. They are widely used in the manufacturing of high-speed railways, subways, and urban expressways.

ZCC•CT 의제품은분쇄가공，철도가공및휠허브가공에적합합니다．그것들은고속철도，지하철및도시고속도로의제조에널리사용됩니다．

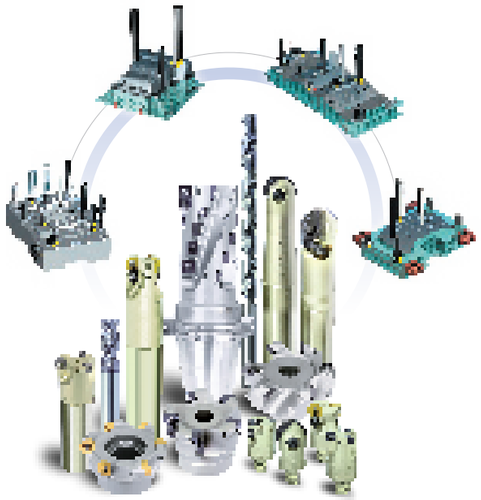


対応産業

Mould and Die Industry
금형 산업

ZCC•CT has created a number of new products with independent intellectual property rights in the mould and die industry. The products and solutions cover all types of mould machining which include stamping die, plastic die, forging die and die casting and other mould machining process. ZCC•CT emphasizes to develop high-end milling tools. And the products have been applied in some well-known domestic mould enterprises.

ZCC•CT 는금형산업에서독립적인지적재산권을보유한여러신제품을창안했습니다．제품및솔루션은스탬핑다이，플라스틱다이，단조다이및다이캐스팅및기타금형가공을포함하는모든유형의금형가공에적용됩니다．ZCC•CT 는고급밀링공구개발에중점을두고있습니다．그리고제품은잘알려진국내금형기업에적용되었습니다．



Electronic Information Industry
전자 정보 산업

ZCC•CT aims to provide comprehensive solutions to the machining of the frames, bodies, shells, and PCBs from mobile phones, laptops, wearable devices, VR devices and communication equipment.

ZCC•CT 는휴대전화，랩톱，웨어러블장치，VR 장치및통신장비에서프레임，바디，쉘및 PCB 가공에대한포괄적인솔루션을제공하는것을목표로합니다．



Quality guarantee

품질 보증

We have been awarded GB/T19001-ISO9001
Quality System Certificate.
All our products are inspected strictly.

우리는 GB / T19001-ISO9001 품질시스템인
증서를수여받았습니다 . 모든제품은엄격하게
검사됩니다 .





Marketing 마케팅



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Website : www.zccct-europe.com