

LZQ是一個優秀的高精密全精研磨醫療工具、刀具、治具、零配件、特殊新產品的代工企業，目前主要為國際一流品牌的供應商做代工，代工主要用戶也均為醫療工具、治具的制造企業。因為長期從事於飛機、艦艇、汽車等精密配件生產用的非標準工模具、成型治具，超高防銹高硬度不銹鋼、鎢鋼釵焊工夾具的生產加工，從而逐漸建立並不斷完善先進綜合的生產體系及各種精密技術生產加工能力，實現各類醫療工具、治具、配件產品的高精密、高度複雜、綜合成型的幾何加工，依圖依樣尺寸/公差/要求復合成型加工。可生產極為複雜、精密的形狀。工具、刀具可以激光分段、不同顏色的色圈、不同顏色的塗層、帶內孔……要求，只要有要求及使用效果最好的樣品、CAD圖，即可實現成型加工。

與LZQ配合可以依貴司的設計能力和想法，實現對醫療工具用途的推廣，從而建立起屬於貴司自己的工具、治具、零配件產品體系。只要有CAD或3D圖或使用效果最好的實樣或依自己想法用3D打印機打印樣件，或者用木頭刻制屬於自己想法的產品並標注尺寸公差，LZQ即可採用指定的國際一流高品質素材和先進綜合的生產體系，強力高速CNC磨削加工中心（3DX技術）成型超硬，超精研磨，具有完美的刃口品質和高可至 $\pm 0.0005\text{mm}$ ($\pm 0.5\mu\text{m}$)的尺寸公差，依圖依樣現生產，具有極強的性價比。

LZQ從二00二年就開始主力高端高性能醫療器械、醫療刀具、配件的複雜成型之精密代工，一般沒有參與醫療制品的設計應用及配套認證服務，以熱處理後之高硬度材料磨削為主，電火花EDM、sodick/+GF+慢走絲為輔，非傳統工藝之車削後磨削或拋光，可保持優良的同心度 \odot ，圓柱度 〰 ，圓周震動公差 〰 及全震動公差 〰 ，可以採用任意種類的進口高品質材料、熱處理後硬研磨成型，也可由用戶提供熱處理後的材料硬磨削成型，只要有使用效果好的實樣，並拍照表達好重點注意的要求，LZQ就可以檢測出任何貴司所顧慮的所有參數，採用完全相同或更為優質的材料及不同等級或更高精密精度級別的幾何形狀成型、CBNC超硬超精研磨加工，只要設計理念得當，完全可以大大超越現有國際一流品牌的品質制品。

LZQ is an excellent OEM factory for high-precision full-finish-grinding medical tools, cutters, fixtures, spare parts, and special new products. Currently we mainly make products for the best world-class brands' suppliers. The main users of our OEM products are also manufacturing enterprises of medical tools and fixtures. Because we have been engaged in the production of non-standard tools and moulds, forming fixtures, stainless steel and carbide brazing tools and fixtures for making precision components of aircrafts, warships, and automobiles, etc., we gradually establish and continuously improve our advanced integrated production systems and various precision technical production and processing capabilities, to achieve high-precision, highly complex and comprehensive-molding geometric processing of various types of medical tools, fixtures and accessories products, according to size / tolerance / requirements of drawings, samples to do the composite molding processing. We can produce extremely complex and precision shapes. Tools and cutters can be with laser segmentation, different colors of color ring, different colors of coating, inner hole ... different requirements, as long as there are samples or CAD drawings, we can achieve molding processing.

Cooperating with LZQ can help realize the promotion of the medical tools usages according to the design capabilities and ideas of your esteemed company, thus establishing your own tool kit, fixtures and spare parts product system. As long as you have CAD or 3D drawings, or samples with best using performance, or print the samples with a 3D printer, or use wood to engrave products with dimensional tolerances of your own ideas, LZQ can adopt a designated international first-class high-quality raw materials and advanced integrated production system, to do molding, superhard and ultra-fine grinding with the powerful high-speed CNC grinding machining center (3DX technology) according to drawings or samples, with perfect edge quality and dimensional tolerance up to $\pm 0.0005\text{mm}$ ($\pm 0.5\mu\text{m}$), which is at a very good cost performance

★、可來圖、來樣任意定做陶瓷、鎢鋼、超高防銹高耐磨不銹鋼(AA)、不銹鋼、鈦合金、鈦、鑽石等系列，高精密組合成型治具、釵焊工夾具、耐磨零附件、高精密配件(3DX技術)成型超硬、超精研磨。
We can customize for you according to your samples or drawings for any manufacturing of ceramic, carbide, stainless high-speed steel, stainless steel, titanium alloy, titanium diamond etc series, high precision combination profile fixtures, brazed jigs and fixtures, wear-resistant parts, high-precision parts(3DX technology) profile super-hard and super-fine grinding.

Since 2002, LZQ has been focusing on precision manufacturing for sophisticated molding of high-end high-performance medical instruments, medical cutters, and accessories. We generally don't participate in any design, application and supporting certification services of medical tools. We mainly grind high-hardness materials after heat treatment, supplemented by EDM, sodick/+GF+WEDM, grind or polish after non-traditional turning processs, so with excellent concentricity ◎, cylindricity/○, circumferential vibration tolerance ↗ and full vibration tolerance ↗. We can use any kind of imported high-quality materials and hard-grind to mold after heat treatment, or customers could provide us raw material after heat treatment to do hard-grinding. As long as you have samples with best work performance and express clear about the requirements of key attention, LZQ can test all parameters concerned by your esteemed company, and use the same or higher-quality materials to mold the geometric of different grades or higher precision grades and process by CBNC superhard superfinishing, which can make products that completely exceed quality of the existing international first-class-brand ones if only the design concept is appropriate.

LZQは高精密全体細密研削医療器具、刃物、治具、部品、特殊新製品を加工する優良企業であり、現在、主に国際一流ブランド品メーカーより受注生産をし、ご依頼主は主に医療器具、治具の製造企業である。長期にわたり、飛行機、艦艇、自動車などの精密部品生産用の非標準工具、成型治具、超防錆・高硬度ステンレス、タンガスステン鋼、ブレイズ溶接工具・治具の製造に携わっているため、先進的且つ総合的生産体制並びに各種の精密技術による生産加工能力を次第に構築し、そして、継続的にその完全化に向けて努めている。各種の医療器具、治具、部品の高精密、高度に複雑、総合成型の立体加工を実現し、図面・サンプルの寸法/交差/要求に基づいて複合成型加工を行う。極度複雑且つ精密な形状も製造できる。工具、刃物については、レーザー切断、多色のカラーリング、多色のコーティング、穴付き・・・・などのリクエスト、要求、または、サンプル、C A D図さえあれば、成型加工が実現できる。

LZQと提携することによって、御社の設計能力及びアイデアをもとに、医療器具用途の拡大で、御社独自の工具、治具、部品の製品シリーズが構築することができる。CADまたは3D図面があれば、もしくは、最も状態の良いサンプルで、ご自分の構想に基づき、3Dプリンターでサンプルを作成し、または、木でご自分の構想に基づく製品を彫刻した上で、寸法と交差を標記して頂いた場合、LZQが指定された国際一流品質の素材と先進的な総合生産システムで、強力高速CNC研削加工センター(3DX技術)を用いて、高硬度、超精密研削、完璧な刃先品質を有する、且つ±0.0005mm(±0.5um)寸法公差の成型ができる。図面またはサンプルに基づいて生産し、極上のコストパフォーマンスがある。

LZQは2002年からハイレベル、ハイパフォーマンスの医療機器、医療用刃物、部品の複雑成型に関する精密受注生産に力を注ぎ、通常の場合、医療製品の設計・応用及び関連の認証サービスに携わらず、熱処理後の高硬度材料の研削を主業務とし、放電加工EDM、sodick/+GF+Wイヤ放電加工を付随業務とし、従来の旋削後の研削或いは研磨と異なり、優良の同心度◎円筒度○円振動交差↗及び全振動交差↗を確保でき、そして、あらゆるタイプの輸入高品質材料を採用し、熱処理の後に、研削で成型することができる。また、熱処理後の材料研削成型がお客様によっても提供されることができる。この場合、状態の良いサンプルがあると同時に、重要な注意事項を説明していただいた上で、LZQが御社が悩まれているすべてのパラメーターを検出でき、全く同じまたは更に良質の材料及び異なるレベルまたは更に高い精密度レベルの立体形状で成型し、CBNCスーパー硬度、スーパー精度での研削加工を用いれば、設計理念が妥当であれば、現にある国際一流ブランド品の品質を大幅に上回ることが確実にできる。

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常用材料(ASTM440PH)
Conventional materials(ASTM440PH)
常用材質(ASTM440PH)

超高防銹型(AA)&超高耐磨型(A/AA)&可超高精密加工
(Super-high anti-rust(AA)&Super wear-resistant
type(A/AA)&Super-high precision process)
(超防銹型(AA)&超耐磨型(A/AA)&超精密加工可)

★ (超高防銹不銹鋼AA) (淬硬處理HRC54° ± 2° 斷面)

超高防銹高耐磨高硬度、高抗衝擊、高韌性不銹鋼，具有極為優秀的防銹、耐腐蝕、耐磨耗（高硬度）性能及理想的抗衝擊性能，**優異的耐腐蝕能力接近 TYPE 304 Stainless 不銹鋼**，防銹性能接近于外科植入物用合金，無標示下5%中性鹽霧實驗（ASTM B117）1000小時後無生銹。應用範圍廣，品質相當優秀及穩定，可生產極為複雜、高精度的柄部形狀及成型的超鋒利刃部結構。

適用高端醫療標準：AMS 5936 . MMPDS-01 . ASTM A693
ASTM A564 . ASTM F899-12

通過Vitro（細胞毒性）試驗，驗證材料不具有任何潛在的細胞毒性，因此能安全地與人類組織、體液或血液接觸，符合所有相關過敏和皮膚刺激試驗標準的要求。

★ (Ultra-high rust-proof stainless steel AA) (hardened HRC54° ± 2° Section)

Ultra-high anti-rust & high wear-resistant, high hardness, high impact, high toughness stainless steel, with excellent anti-rust capability, corrosion resistance, wear resistance (high hardness) performance and ideal impact resistance. **Its excellent corrosion resistance is comparable to TYPE 304 Stainless steel**; and its rust resistance is closer to alloy for surgical implant. Unmarked, with 5% Neutral salt spray test (ASTM B117), it doesn't rust after 1000 hours. Wide range of applications, quite good and stable quality, which can be used to produce extremely complex, high-precision shank shapes and profile ultra-sharp edge structures. Applied for high-end medical standard: AMS 5936 . MMPDS-01 . ASTM A693

ASTM A564 . ASTM F899-12

The Vitro (cytotoxicity) test verifies that the material does not have any potential cytotoxicity and therefore can safely contact human tissue, body fluids or blood, and meets all relevant allergy and skin irritation test standards.

★ (超高防銹ステンレスAA) (急冷処理 HRC54° ± 2° 断面)

超高防銹高耐磨高硬度、高耐衝擊、高韌性ステンレス、非常に優れた防銹、耐蝕、耐磨耗（高硬度）性能及び理想の耐衝擊性能を有し、**優れた耐蝕性能がTYPE 304 Stainlessステンレスに近い**。防銹性能が外科インプラント用合金に近く、マーク無しで、5%の中性塩水噴霧試験（ASTM B117）で1000時間後、さびが発生しないことに合格した。応用範囲が広くて、品質が非常に優秀且つ安定で、極に複雑、高精度の柄部形状が生産でき、また超鋭利の刃部構造が成型できる。

ハイレベル医療基準に適用する。AMS 5936 . MMPDS-01 . ASTM A693
ASTM A564 . ASTM F899-12

Vitro（細胞毒性）試験の結果によって、材料自体に何ら潜在的な細胞毒性が無いことが検証された。従って、安全に人間の組織、体液または血液に接触でき、関係するアレルギー及び皮膚刺激試験の基準要求にすべて合格した。



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常用材料(UNS S44003D)
Conventional materials(UNS S44003D)
常用材質(UNS S44003D)

超防腐型(AA)&超耐磨型(A/AA)&可超精密加工
(Super-high anti-rust(AA)&Super wear-resistant
type(A/AA)&Super-high precision process)
(超防腐型(AA)&超耐磨型(A/AA)&超精密加工可)

★(超耐磨不銹鋼 A) (淬硬處理HRC64° ± 2° 斷面)

常規標準防銹、超耐磨不銹鋼，具有超高的耐磨耗（超高硬度）性能及常規標準防銹性能，相應一般不銹鋼具有2~3倍的使用壽命，切削刃切割鋒利性保持時間超長。下5%中性鹽霧實驗（ASTM B117）符合CFDA常規標準時間後無生銹現象，如重複使用，後建議能及時清潔烘幹處理，應用範圍廣，可生產極為複雜、高精密的柄部形狀及成型超利刃部結構。

★ (Ultra-high wear-resistant stainless steel A) (hardened HRC64° ± 2° Section)

Rust-proof, ultra-high wear-resistant stainless steel of conventional standard, with ultra-high wear resistance (ultra-high hardness) performance and conventional standard rust prevention, corrosion resistance, with 2~3 times longer lifetime comparing with that of the general stainless steel, and could make the cutting edge cutting sharpness last for a super-long time. Unmarked, with 5% Neutral salt spray test (ASTM B117), it doesn't rust after CFDA standard time. For repeated use, it is recommended to clean and dry in time after surgery. Wide range of applications and can be used to produce extremely complex, high-precision shank shapes and profile ultra-sharp edge structures.

★(超耐磨耗ステンレスA) (急冷処理 HRC64°±2°断面)

通常標準防銹、超耐磨耗ステンレスで、超耐磨耗（超高硬度）性能及び通常の標準防銹、耐蝕性能を有し、普通のステンレスと比べて、2～3倍の使用寿命があり、研削カッターの鋭利状態が非常に長く維持できる。マーク無しで、5%塩水噴霧試験（ASTM B117）がCFDAの通常標準時間後、さびが発生しないことに合格した。また、繰り返し使用の場合、手術後、直ちに洗浄及び乾燥を行うことが推奨される。応用範囲の広い、極に複雑、高精密の柄部形状及び超鋭利の刃部構造の成型ができる。



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LZQ常用材料等級

材料

- AAA——德国、瑞士、瑞典、美国
 A A——美国、卢森堡、瑞典等
 A ——日本、法国
 B ——台湾
 C ——中国大陆上等材料
 D ——中国大陆一般材料

LZQ加工等級区分

加工

- AAA——300多万RMB CNC 六、七轴设备
 A A——200多万RMB CNC 五轴六轴联动
 A ——100多万日本富士CNC四轴设备
 B ——70-90万 三轴设备
 C ——40-60万 设备加工
 D ——15-30万 设备加工

General material grade of LZQ

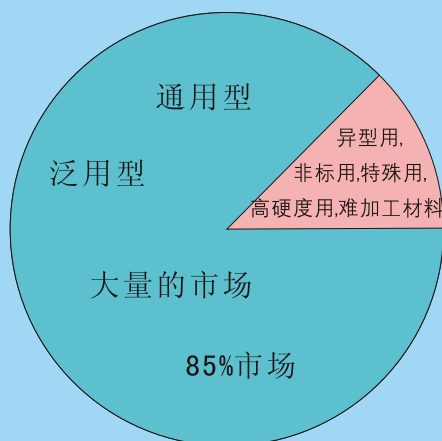
Material

- AAA——German, Swiss, Sweden, American
 A A——American, Luxembourg, Swiss Material
 A ——Japanese, France Material
 B ——Taiwan
 C ——Chinese Mainland High-grade Material
 D ——Chinese Mainland Ordinary Material

Different processing grade of LZQ

Processing

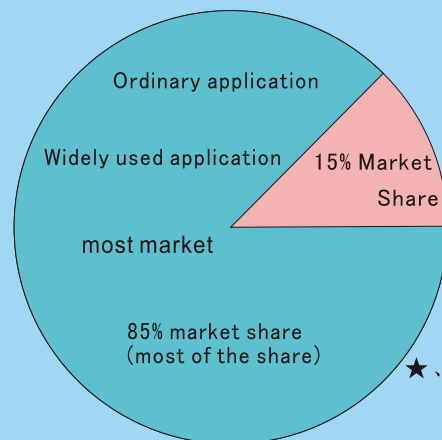
- AAA——6.7 axis CNC equipment with value of 3 million RMB
 A A——5.6 axis CNC equipment with value of 2 milliom RMB
 A ——4 axis CNC equipment with value of 1 milliom RMB
 B ——3 axis CNC equipment with value of 0.7-0.9 milliom RMB
 C ——processing equipment with value of 0.4-0.6 milliom RMB
 D ——processing equipment with value of 0.15-0.3 milliom RMB



15%市场

是LZQ的优势在AAA级加工

参考原效果最好的产品及有一定的数量，
 消化模拟后，常可以大大超越国际一流品牌，
 并获得较低的价格，或提升较高的品质，
 好不好，来图、来样试一试就知道了！



The 15% market share is the advantage of LZQ. With a certain qty and AAA grade processing after studying the original samples of best application effect, we can make excellent products which will probably exceeds the international first-class brand, but with a low cost, or improve the quality to a higher level. Just send us drawings or samples to have a try to know our quality!

★、任何产品的成本：主要由材料及加工研磨成本组成，而不同的材料等级+不同的加工等级= 组成不同的使用用途、效果、性价比的产品。
 The production cost for any product mainly includes the cost of raw material and grinding.

different grades of material+different grades of processing =
 different products with different application, effect and cost-performance.

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 高精度配件 (3DX技術) 成型超硬、超精研磨。
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工業產品定位B

LZQ屬高科技合資企業，為在中國的世界500強企業以及外商投資企業生產加工專業替代進口的高精密刀模具、成型治具、釐焊工夾具，耐磨零附件，高精密配件、超高防銹高硬度不銹鋼高精密零件，如替代Sandvik、Kennametal、Widia、Iscar……等的中、高端制品。采用進口超強極超微粒高品級素材，引進國際一流的CNC設備、強力高速復合磨削加工中心，從六軸、七軸聯動CNC加工的（AAA級）高端產品到三軸、四軸生產的（D級）中端制品、不同等級的品質與價位……專業替代一流工業品、特殊、非標、異型、新產品中大批量（注意盡量不做單規格小批量及標準品）、超高性價比的研發、生產加工，依圖依樣改進設計，高精密（3DX技術）成型超硬、超精密研磨的生產加工，可大大降低綜合成本！

LZQ公司擁有不斷更新、先進綜合的生產體系，具備各種精密技術生產加工能力，可在微細、超長、超薄、超耐磨、耐衝擊、高度複雜、組合成型的加工，具有完美的刃口品質和高可至 $\pm 0.0005\text{mm}$ （ ± 0.5 微米）的尺寸公差，實現高效率、低成本的應用！常年備存原材料、半成品、成品2000萬-3000萬RMB周轉的在庫品，依圖依樣現生產，快捷供貨，具有極強性價比……

LZQ為特殊、非標、異型難加工類產品進行中、大批量的生產，盡量不做單規格、小批量和標準的產品，因為單規格小批量生產無法攤銷生產相應的高品質要求的工夾具、治具、模具、超硬砂輪的成本。而且如果沒有準備好，制作出相應的工裝夾具，生產出來的產品也不會很理想。當然，也要看產品的類別和規格來判定。而標準品的生產和一般的非標準品生產對我廠的生產成本是差不多的，如 $\phi 12.0$ 與 $\phi 12.218$ 對我廠的生產成本是接近的，而對Sandvik、Widia……是有較大的差距。所以對於特殊、非標、異型、新產品的中、大批量生產，LZQ具有極大的競爭力，如果標準品是大批量訂購的，我們也可以組織生產，但性價比和競爭力相對會較弱些，貴公司銷售的利潤空間也會較小些。

一般而言，Sandvik、Kennametal、Widia、SecoTools……為取得市場及營銷的便捷，大部分產品為標準型、泛用型、通用型、常規型的產品，在這方面，LZQ競爭力較低也沒有很大的優勢，但在市場的特殊化、專業化、新產品、有針對性的某種材料的加工上或高精密超高防銹高硬度零附件、配件、治具、刀模具上，依圖依樣加工改進設計及1-2次的磨合，LZQ可以完全地替代、甚至大大超越原用國際一流產品。但這需要我們之間的理解和努力，和若幹次的磨合、配合，如取得原用使用效果最好的樣品（新的加上舊的若幹）、詳細的尺寸公差原廠圖紙，也可以參考我公司的網站www.50323322.com（www.lzqtool.com）中的電子樣本（……）的相應產品、頁數、頁腳注明每種產品的詳細要求、材料種類、尺寸公差、工件成品和半成品圖紙、所用設備、設備的價值USD（以判斷其剛性及跳動等）、每月消耗的數量等，並了解原用產品類型及其不足之處，是易鈍化？易崩口？或者其它，還有被加工材料種類和硬度HRC（HRA）？……

目前LZQ在高硬度用、高耐磨用、高耐衝擊用、高溫合金、耐熱合金、鎳鈮鈦合金鑄鐵、不銹鋼、鈷基鎳合金、鈦合金……等難加工材料類的各類產品的生產加工上表現突出，並取得較大的成績，常用進口材料有HRF10/K15A（超精加工→半精加工、高硬度用）、MR11（精加工→半粗加工、難加工材料用）、H10F/PR40（泛用型、通用型加工用）、VAR201（要求高耐衝擊、高抗崩性加工用）、ASP60A（HSS-Co10）、SKH57C（HSS-Co）、ASTM440PH……近300種材料。

Industrial product positioning B

LZQ is a high-tech joint venture, producing and processing high-precision imported products, like cutting tool, profile fixture, brazing jig, wear resistant parts, high-precision parts, and ultra-hard grinding tools for the world's top 500 companies and foreign-invested enterprises in China, and replacing mid-graded and high-graded products of Sandvik, Kennametal, Widia, Iscar.....Our material is super-strong ultra micro-grain high-level stuff. We have introduced world first-class CNC Processing Center, Super High-Speed Compound Grinding-Turning Center. From high-class products (via 6-axis/ 7-axis Blocking CNC-machine Tool (Class-AAA)) to medium-class products (via 3-axis/ 4-axis Blocking CNC-machine Tool (Class-D)), different quality and price. And we are professional in large quantity production of special, non-standard and special-shaped new products which can replace the first-class industrial products (please note that we try to avoid producing small quantity for every size). Our research, study and production are all for high-cost performance and we can modify the design according to your drawings and samples by the way of manufacturing and processing with high precision (3DX Technology) profile super-hard and super-finish grinding. It can reduce the total production cost!

With advanced and continually updated equipment, LZQ owns the capability of producing & processing various kinds of precise tools. We can produce super-precise/super-long/super-wear-resistant/impact-resistant/high-complex combined profiling products, with perfect cutting quality and tolerance fine to $\pm 0.0005\text{mm}(\pm 0.5\mu\text{m})$, and what a high-efficiency & low-cost application we deliver you! We keep around RMB 20~30 Million turnover stock articles such as raw material, semi-finished products, finished products in ordinary year, we are capable to produce according to drawing or sample provided by customer and make a quick delivery, so as to present you a favorable cost-performance ratio...

LZQ often produces non-standard, special-shaped, high precision products which are difficult to machine in medium and big batch, but rarely in a small number for single dimension standard ones, because the cost of jig, fixture, mould and Super-hard grinding wheel is quite high, and if without the mould, it is difficult to make an excellent item. However, it depends on the type and the dimension of the required products. Besides, in our company, the cost of standard products and that of the non-standard is similar, such as $\varnothing 12.0$ and $\varnothing 12.218$, but it is not for other companies, like Sandvik, Widia. This is why we are competitive in producing special, non-standard, special-shape goods. However, regarding to a big order, we also produce the standard products. But the cost-performance ratio and the competition are quite low, and also profit of the sale is lower for your company.

Generally speaking, for a big market share, other companies, like Sandvik, Kennametal, Widia, SecoTools... mostly make standard, general-use, ordinary products, from which we are not so competitive. But LZQ can replace or simulate the specialized, high-precision part, fixture, cutting tool, with special material, according to the requirements of drawings, samples. After once to twice test and improvement, we can make the same item as the first-class original one, even better. And this requires great understanding and support for us. It would be greatly helpful if real samples (several of the new and old with best application result) or drawings with detailed information about size and the specification of the products are provided. You can also visit our website <http://www.lzqtool.com.cn/dzyb/cn.html> from www.50323322.com www.lzqtool.com for electronic catalogue reference, from which detailed information for every product is available, including the material, size, drawings of semi-finished and final products, producing equipment and their value(USD)(for the judge of their working performance). You can also provide the deficiency of the original products, like easy-to-passivate, or tipping, or something else, and the material and hardness HRC will also be appreciated too.

At present, LZQ is good at producing tools for high-hardness, high wear-resistant and high impact-resistant products, like High-temperature alloy, Heat-resisting alloy, Vanadium-titanium alloy of nickel iron, Stainless steel, Cobalt-based nickel alloy, Titanium alloy or other items, made of difficult-processing material, and have done a good job. There are about 300 kinds of material we often use, like the imported ones, HRF10/K15A(for application from super-finish machining to semi-finish machining and for high-hardness processing), MR11(for application from finish machining to semi-rough machining, and the use of hard-processing material), H10F/PR40(for widely-used and ordinary processing application), VRA201(for high wear-resistant and chipping-resistant application), ASP60A(HSS-Co10), SKH57C(HSS-Co), ASTM440PH...totally about 300 kinds of material.