

2022–2023 Global Product Catalog





VALUE AT THE SPINDLE®

KYOCERA SGS Precision Tools (KSPT) is an ISO 9001:2015 Certified manufacturer of industry leading round solid carbide cutting tools. State of the art manufacturing and warehouse facilities have the capacity and processes to meet the quality and delivery demands of customers in all markets around the world. Complete inspections performed within its metallurgical lab and manufacturing quality departments ensure the use of high quality carbide and reliable manufacturing consistency regardless of when a cutting tool is produced.

KSPT is proud to have pioneered some of the world's most advanced cutting technologies due to rigorous testing of tools, coatings, and materials within its Global Innovation Center. It is this commitment to innovation that has launched patented products and technologies like the Z-Carb with its variable geometry and cutting edge preparation, Series 43 APR® and APF® ultra high performance aluminum cutting tools, and the JetStream coolant technology.

SGS has become an important part of the KYOCERA Precision Tools family, and while the name has changed, one thing has not. Its dedicated people and their relentless commitment to the customer. KSPT Technical Sales Engineers, Application Specialists, and Distribution Partners blanket the globe, delivering reliable service and support to all market segments. It is these people and products that drive innovative application strategies and cutting tool technologies into the end user, continually exceeding expectations and providing the most Value at the Spindle®.



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MORE THAN JUST ANOTHER CUTTING TOOL SUPPLIER

KYOCERA SGS PRECISION TOOLS EUROPE, LTD.

The state of the art KYOCERA SGS Precision Tools Europe facility is located in Wokingham, England and is focused on the manufacture of special cutting tools, high accuracy form tools, tool modifications and regrinds. A highly skilled team of professionals specialize in the supply and support of high performance tools for the Aerospace, Medical, Power Generation and Motorsport markets.

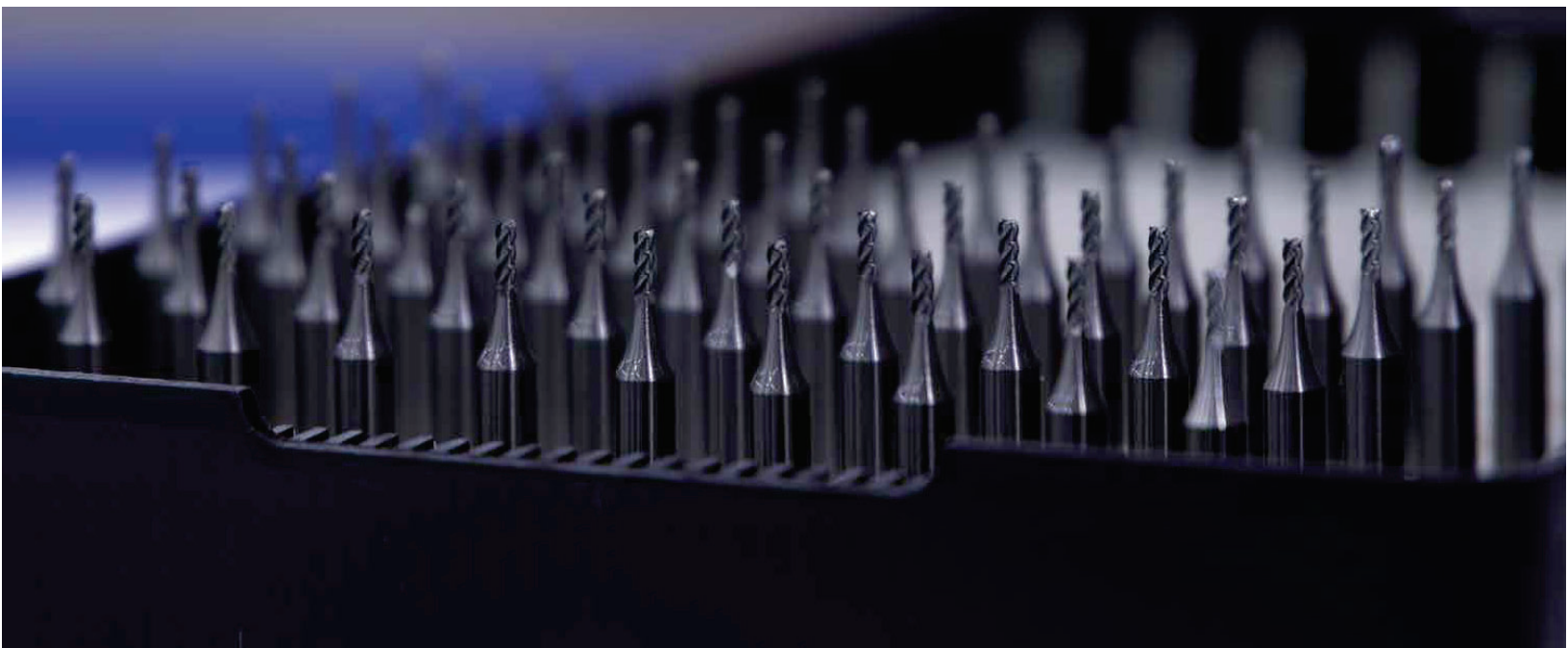


KYOCERA SGS Precision Tools Europe also offers a full range of end mill and drill products as follows:

- Multi-Million Euro Warehouse Stocking Full Range of Catalog Products
- Same Day Shipment on Stock Items
- Multi-Lingual Sales and Technical Support
- Online Portal for Stock Availability
- High Performance Product and Application Training, Including the New KYOCERA SGSTool Clinic

Additional services provided at this facility include:

- A Fast Track for Special Tools Via Our Rapid Response Centre
- Product Research and Development
- Product Engineering and Tool Application Support
- CAD/CAM Software Support





GLOBAL INNOVATION CENTER

CUTTING TOOL INNOVATION

One of the main goals of the KSPT Global Innovation Center is to bring value to the customer's spindle; one of the ways this is achieved is by producing innovative cutting tool geometries. Using the most advanced technology and techniques available in today's market, KSPT is dedicated to developing new products that will take the industry to the next level.

- State of the art cutting tool measuring and monitoring technology
- Continuous market research and training to stay up to date
- Unique and complex tool designs

TECHNICAL TRAINING & EDUCATION

The KSPT Global Innovation Center sets out to involve our trainees in engaging and challenging training regardless of where they are at in their career with a balance of demonstrations, presentations, and hands-on challenges.

- Our own KSPT team members go through the same core training we provide to our valued distribution partners
- Two levels of KSPT Campus tool clinics available
- On-site and online customer training

APPLICATION SUPPORT AND TESTING

At the KSPT Global Innovation Center, we understand that every application comes with its own challenges and at the end of the day, the customer wants to minimize the cost. This is where our R&D lab, engineers, and range of machining elements come into play. We can closely replicate the customer's application and provide feedback on how we suggest approaching it, all without the need to halt production in their own shop.

- A wide range of tool holding, fixturing, material, coolants/delivery methods, and machines
- Technical support and troubleshooting by phone, email, or web call
- Research and development



TOOLING SERVICES

KSPT is committed to providing superior tooling services in the areas of Reconditioning, Recoating, Regrinding, Specials and Alterations. These services are offered to provide unique solutions and enhanced tool life with involvement from the KSPT Technical Support Team.

KSPT proudly offers Tooling Services in North America and Europe.



KSPT TOOLING SERVICES FACILITIES

UNITED STATES OF AMERICA KSPT

150 Marc Drive
Cuyahoga Falls, Ohio 44223 U.S.A.
customer service -
US and Canada: (330) 686-5700
fax - US & Canada: (800) 447-4017
international fax: (330) 686-2146

KYOCERA SGS Precision Tools West Coast Service Center

1832 W. Collins Ave.
Orange, California 92867
phone: (714) 363-3701
fax: (714) 363-3711
email: sgswest@kyocera-sgstool.com

EUROPE KSPTE

10 Ashville Way
Wokingham, Berkshire
RG41 2PL England
phone: (44) 1189-795-200
fax: (44) 1189-795-295
e-mail: SalesEU@kyocera-sgstool.com

KYOCERA SGS Precision Tools Tech Hub

149 Slayton Avenue
Danville, Virginia 24540
US and Canada: (434) 791-2020
Fax US & Canada: (434) 791-2044
web: www.kyocera-sgstool.com/tech-hub



BEFORE



AFTER

KYOCERA SGS Tech Hub

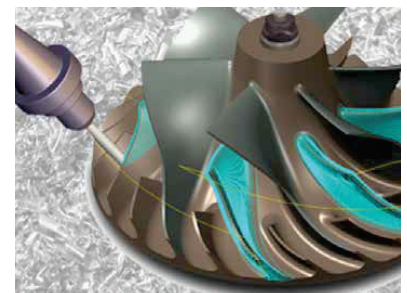
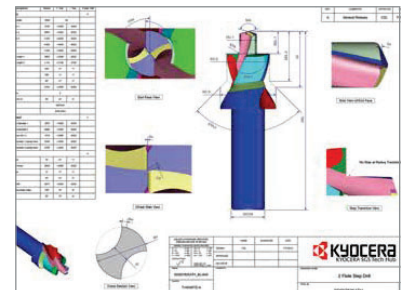
The KYOCERA SGS Tech Hub (KSTH) is a division of KYOCERA SGS Precision Tools Inc. created to focus on custom high-performance cutting tool solutions. The state-of-the-art custom facility is designed with the purpose and resources to provide MORE than a cutting tool. KSTH provides a complete scope of services and works with customers to tailor solutions from conception to application and beyond.

CUSTOM CUTTING TOOL SOLUTIONS

KSTH considers each opportunity as a priority project and understands the challenges special tailored tooling present to our end users. Our sole focus is supporting a culture required for applying custom solutions yielding a return on investment with our technical expertise, resources, and structure. Besides KSTH providing quotation requests typically within a 24-hour period, we also offer:

- Competitive Deliveries
- Improved Value Proposition
- Global Resources and Technology
- Full Project Proposal and Management
- Approval Drawings
- Solid Models
- Process Plans
- Cutting Strategies and Simulations
- Quality Assurance Documentation (ISO 9001:2015 Certified)
- Strategic Industry Partnerships for Complete Solution Proposals
- Onsite Application and Optimization Support
- Cradle to Grave Product Support
- Constant Access to KSTH Staff

The Tech Hub division was created with the vision of providing a specialized facility, staff, resources, and culture around developing and providing custom tailored solution to customers on an application by application basis. Each solution designed and optimized for an application not a market, not a material, and not a part, but specific to the unique demands of each application. Making the extraordinary, ordinary at the Tech Hub!



KYOCERA SGS Tech Hub
149 Slayton Avenue
Danville, Virginia 24540
US and Canada: (434) 791-2020
Fax US & Canada: (434) 791-2044
web: www.kyocera-techhub.com





KYOCERA SGS Precision Tools Medical Division

WHO WE ARE

With over 20 years of industry experience, KSPT Medical produces unique, customer designed orthopedic devices using highly trained engineers dedicated to new technology. KSPT Medical is a division of KYOCERA SGS Precision Tools, who proudly pioneered some of the world's most advanced metal cutting technology and sells to more than 60 countries. With over 20 years of industry experience, KSPT Medical Division is ISO 13485:2016 Certified and is FDA Registered in the production of medical devices in the orthopedic marketplace.

ENGINEERING

We approach each opportunity as a project and manage it as such. We pride ourselves on engineering each project to the specific needs of our customers. Providing quotes often within 24 hours and following through with detailed drawings, solid models, process plans, and program simulations if needed. Our goal is to work hand in hand with the end user and maintain constant communication to customize our support to their needs.

MACHINING CAPABILITIES

- GRINDING
- MILLING
- TURNING
- PROFILING
- BENDING
- Services Offered; Welding, Various Coatings, Anodizing, Passivation, Electropolishing, Laser Etching and Heat Treating



KYOCERA SGS Precision Tools Medical Division

201 S. Towerview Dr.
Columbia City, Indiana 46725
phone: (260) 244-7677
fax: (260) 244-7466
www.ksptmedical.com

To Request a Quote:
rfq@kyocera-sgstool.com

Customer Service and Orders:
salesmd@kyocera-sgstool.com



REGISTERED ISO 13485:2016 Certified



VALUE AT THE SPINDLE®

An interactive and dynamic platform to help select the correct SGS tool for the operation and provide optimal machining parameters.

- A quick and reliable 3 step process:
 1. Choose the material
 2. Enter the application
 3. From the list of recommended results, choose the tool that best fits your machining needs
- Speed & Feed rates will be generated based on application parameters combined with the selected tool's capabilities in the desired material.

TO SIGN UP FOR THE TOOLWIZARD®:

1. Visit Toolwizard.kyocera-sgstool.com
2. Register for an account
3. Start calculating
4. Start saving!



 **Common Legend**
 **Leyenda habitual**
 **Légende commune**
 **Gemeinsame Legende**

TO ORDER: Please specify quantity and EDP number.

PARA SU PEDIDO: Por favor especifique cantidad y número de EDP.

POUR COMMANDER: Veuillez préciser la quantité et le code article EDP.

BESTELLEN: Bitte Menge und EDV-Nummer angeben.

RETURN POLICY: An RMA number must accompany all product returns.
Contact your Customer Service Representative for an RMA number.

DEVOLUCIONES: Todo material devuelto debe ir acompañado de un número de RMA correspondiente.
Para solicitarlo, póngase en contacto con su Representante de Atención al Cliente.

POLITIQUE DE RETOUR: Tous les produits retournés doivent être accompagnés d'un numéro RMA.
Contacter votre interlocuteur commercial pour obtenir un numéro RMA.

RÜCKNAHMEGARANTIE: Eine RMA-Nummer (Rücksendegenehmigung) muss bei allen Produktrücksendungen beiliegen.
Wenden Sie sich bitte an Ihren Kundendienstmitarbeiter für RMA-Nummer.

REGULATION SAFETY GLASSES SHOULD ALWAYS BE WORN WHEN USING HIGH-SPEED CUTTING EQUIPMENT

DEBEN USARSE GAFAS PROTECTORAS CUANDO SE UTILICEN EQUIPOS DE ALTA VELOCIDAD

DES LUNETTES DE SÉCURITÉ DOIVENT ÊTRE IMPÉRATIVEMENT PORTÉES LORS D'UTILISATION D'OUTILS À GRANDE VITESSE

BEI SCHNELLLAUFENDEN SPANABHEBENDEN MASCHINEN MÜSSEN IMMER DIE VORGESCHRIEBENEN SICHERHEITSBRILLEN GETRAGEN WERDEN



WARNING: This product can expose you to chemicals including Cobalt, which is known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov



ADVERTENCIA: Este producto puede exponerlo a químicos como el Cobalto, reconocido como cancerígeno en el estado de California. Para más información visite esta página web: www.p65warnings.ca.gov



ATTENTION: Ce produit vous expose aux produits chimiques incluant le Cobalt, qui est reconnu par l'Etat de Californie a etre une cause de cancer. Pour plus d'information veuillez regarder sur: www.p65warnings.ca.gov



WARNUNG: Dieses Produkt kann Sie mit Chemikalien wie Kobalt aussetzen, das dem Staat Kalifornien als krebserregend bekannt ist. Für weitere Informationen, besuchen Sie: www.p65warnings.ca.gov

INTELLECTUAL PROPERTY
PROPIEDAD INTELECTUAL
PROPRIÉTÉ INTELLECTUELLE
GEISTIGES EIGENTUM

KYOCERA SGS Precision Tools holds more than 20 patents globally. Please visit our website at www.kyocera-sgstool.com to learn more.

KYOCERA SGS Precision Tools posee más de 20 patentes a nivel mundial. Para más información, visite nuestra página web www.kyocera-sgstool.com.

KYOCERA SGS Precision Tools possède plus de 20 brevets mondialement reconnus. Pour plus d'information, veuillez consulter notre site web www.kyocera-sgstool.com.

KYOCERA SGS Precision Tools besitzt mehr als 20 Patente weltweit. Bitte besuchen Sie unsere Webseite www.kyocera-sgstool.com für weitere Informationen.

Common Legend

Leyenda habitual

Légende commune

Gemeinsame Legende

MATERIALS MATERIALES MATÉRIAUX WERKSTOFFE



Steels (P)
Aceros
Aciers
Stähle



Stainless Steels (M)
Aceros Inoxidables
Aciers inoxydables
Nichtrostende Stähle



Cast Iron (K)
Acero de Fundición
Fonte
Grauguss



Non-Ferrous (N)
No Férricos
Non Ferreux
Nichteisenmetalle



High Temp Alloys (S)
Aleaciones Termorresistentes
Alliages hautes températures
Warmfeste Legierungen



Hardened Steels (H)
Aceros Endurecidos
Aciers Trempés
Gehärteter Stahl

TOOL LENGTH LONGITUDES DE HERRAMIENTAS LONGUEUR DE L'OUTIL WERKZEUGLÄNGE



Stub
Corta
Court
Kurze Bauform



Regular
Media
Moyen
Standard



Long
Larga
Long
Lang



Long Reach Neck
Larga con cuello
Détalonnage longue
portée
Freischliff



Extra Long
Extra-larga
Extra-long
Extra-Long

FLUTES FILOS DENTS SCHNEIDEN



2 Flutes
2 Filos
2 Dents
2 Schneiden



3 Flutes
3 Filos
3 Dents
3 Schneiden



4 Flutes
4 Filos
4 Dents
4 Schneiden



5 Flutes
5 Filos
5 Dents
5 Schneiden



6 Flutes
6 Filos
6 Dents
6 Schneiden



7 Flutes
7 Filos
7 Dents
7 Schneiden



8 Flutes
8 Filos
8 Dents
8 Schneiden



9 Flutes
9 Filos
9 Dents
9 Schneiden



10 Flutes
10 Filos
10 Dents
10 Schneiden



11 Flutes
11 Filos
11 Dents
11 Schneiden



12 Flutes
12 Filos
12 Dents
12 Schneiden

End Mill Legend Leyenda fresas Légende fraise Fräser-Legende

END CONFIGURATIONS CONFIGURACIONES DE LA PUNTA FORME DE L'OUTIL EN BOUT ENDENAUSFÜHRUNG



Ball
Esférica
Boule
Kugelkopf



Corner
Plana con
borde romo
Rayon
mit Eckenradius



Square
Plana
Non rayonné
Scharfkantig



Linear taper
Perfil Cónico
Conique Droit
Linear Kegel



Tapered Circle
Segment
Perfil Cónico de
Segmento Circular
Conique Segment
de Cercle
Tonnen Segment



Picatinny Recoil
Groove
Fresa Riel Picatinny
Rainure Décalée
Picatinny
Picatinny Rückstoss
Nut



Picatinny Dovetail
Form
Fresa de Forma
Picatinny Cola de
Milano
Queue d'aronde
Picatinny
Picatinny Schwal-
benschwanz Form

SHANK TYPE TIPO DE VÁSTAGO TYPE DE QUEUE SCHAFTART



Common
Normal
Dégagée
Standard



Straight
Recto
Cylindrique
Gerade



WELDON
Drive Flat
Plano en el zanco
Entrainement
méplat
Spannfläche



DIN6535 HB
Drive Flat
DIN 6535 HB
Plano en el zanco
DIN 6535 HB
Entrainement
méplat DIN 6535 HB
Spannfläche
DIN 6535 HB

HELIX ANGLES ANGULOS DE LAS HELICES SPANWINKEL ANGLES DE L'HÉLICE



Right Spiral
Hélice con corte
a la derecha
Hélice droite
Rechtsspirale



Left Spiral
Hélice con corte
a la izquierda
Hélice gauche
Linksspirale



Variable Right Spiral
Hélice con corte a
la derecha y ángulo
variable
Hélice droite variable
Rechtsspirale,
variabel

COOLANT OPTIONS OPCIONES DE REFRIGERACIÓN OPTIONS DE REFOUILLISSEMENT KÜHLSCHMIERMITTEL-OPTIONEN



Internal Coolant
Refrigeración interna
Refruidissement
interne
Innenkühlung



JetStream Coolant
Slots
Ranuras de refrigeración
JetStream
Fentes de refroidissement
JetStream
JetStream-
Kühlmittelschlitze



Positive
Positivo
Positif
Positiv



Neutral
Neutro
Neutre
Neutral



Negative
Negativo
Négatif
Negativ



Variable
Variable
Variable
Variabel



Flute Spacing
Unequal
Espaciado
desigual de los
filos
Denture décalée
Nutenabstand
Ungleich



Chip Breaker
Rompevirutas
Brise-copeaux
Spanteiler

RAKE ANGLE ANGULO DE DESPRENDIMIENTO ANGLE DE COUPE SPANWINKEL

All tools are in Right Cut Direction unless noted
Todas las herramientas son con corte a la derecha a menos que se indique lo contrario
Tous les outils ont une coupe à droite, sauf indications contraires
Alle Werkzeuge sind rechtsschneidend, soweit nicht anders angegeben

All tools are straight or non-tapered unless noted
Todas las herramientas son rectas o no cónicas a menos que se indique lo contrario
Tous les outils sont droits ou non coniques, sauf indication contraire
Alle Werkzeuge sind gerade oder nicht konisch, sofern nicht anders angegeben

Drill Legend

Leyenda brocas

Légende perçage

Bohrer-Legende

SHANK TYPE TIPO DE VÁSTAGO TYPE DE TIGE SCHAFTART



Common
Normal
Dégagée
Standard



Straight
Recto
Cylindrique
Gerade

REACH ALCANCE LONGUEUR NUTZLÄNGE

3xD

3xD Reach
Alcance 3xD
Longueur 3xD
3xD Nutzlänge

5xD

5xD Reach
Alcance 5xD
Longueur 5xD
5xD Nutzlänge

8xD

8xD Reach
Alcance 8xD
Longueur 8xD
8xD Nutzlänge

12xD

12xD Reach
Alcance 12xD
Longueur 12xD
12xD Nutzlänge

HELIX ANGLES ÁNGULOS DE LAS HELICES ANGLES DE L'HÉLICE SPANWINKEL



Right Spiral
Hélice con corte
a la derecha
Hélice à droite
Rechtsspirale



None
Ninguno
Aucun
gerade genutet



Internal Coolant
Refrigeración interna
Refrroidissement interne
Innenkühlung



External Coolant
Refrigeración externa
Refrroidissement externe
Auskühlung

POINT ANGLE ÁNGULO DE PUNTA POINT D'ANGLE SPITZENWINKEL



Drill Point
Angulo de la Punta
Point de perçage
Bohrspitze



Point Angle
Ángulo de punta
Angle de pointe
Spitzenwinkel



Chamfer Angle
Ángulo de chaflán
Angle de chanfrein
Fasenwinkel

NUMBER OF MARGINS NÚMERO DE MÁRGENES NOMBRE DE MARGES ANZAHL DER RÄNDER



2 Margins
2 Márgenes
2 Marges
2 Ränder



3 Margins
3 Márgenes
3 Marges
3 Ränder



4 Margins
4 Márgenes
4 Marges
4 Ränder

NUMBER OF FLUTES FILOS DENTS SCHNEIDEN



1 Flute
1 Filo
1 Dent
1 Schneiden



2 Flutes
2 Filos
2 Dents
2 Schneiden



3 Flutes
3 Filos
3 Dents
3 Schneiden

Router Legend Leyenda ranuradores Légende détourage Konturenfräser-Legende

SHANK TYPE TIPO DE VÁSTAGO TYPE DE TIGE SCHAFTART



Straight
Recto
Cylindrique
Gerade

RAKE ANGLE ANGULO DE DESPRENDIMIENTO ANGLE DE PENTE SPANWINKEL



Positive
Positivo
Positif
Positiv



Neutral
Neutro
Neutre
Neutral



Negative
Negativo
Négatif
Negativ



Variable
Variable
Variable
Variabel

HELIX ANGLES ANGULOS DE LAS HELICES ANGLES DE L'HÉLICE SPANWINKEL



Right Spiral
Hélice con corte
a la derecha
Hélice à droite
Rechtsspirale



Left Spiral
Hélice con corte
a la izquierda
Hélice à gauche
Linksspirale

ADDITIONAL GEOMETRY GEOMETRÍAS ADICIONALES GÉOMÉTRIE SUPPLÉMENTAIRE WEITERE BAUFORMEN



Left Hand Cut Direction
Fresado sentido izquierda
Coupe vers la gauche
Rechtsschneidend



Right Hand Cut Direction
Fresado sentido derecha
Coupe vers la droite
Linksschneidend



Chip Breaker
Rompevirutas
Brise-copeaux
Spanbrecher