



Total Solution Provider

Engineering. Manufacturing. Performance



CHARLOTTE, NORTH CAROLINA, USA

ENGINEERING SOLUTIONS



TOOL CONCEPT DEVELOPMENT

Innovative tooling ideas tailored to your Application.



CAD/CAM SIMULATION

Advanced 3D modeling and machining program.



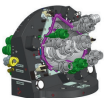
TOOL COLLISION ANALYSIS

Ensure safety, accuracy and process reliability



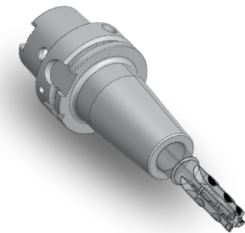
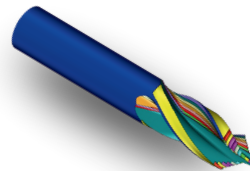
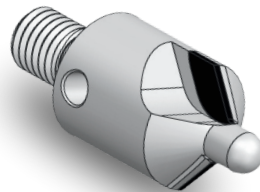
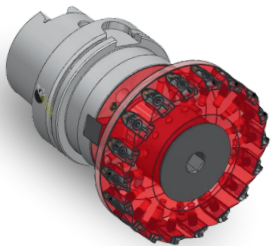
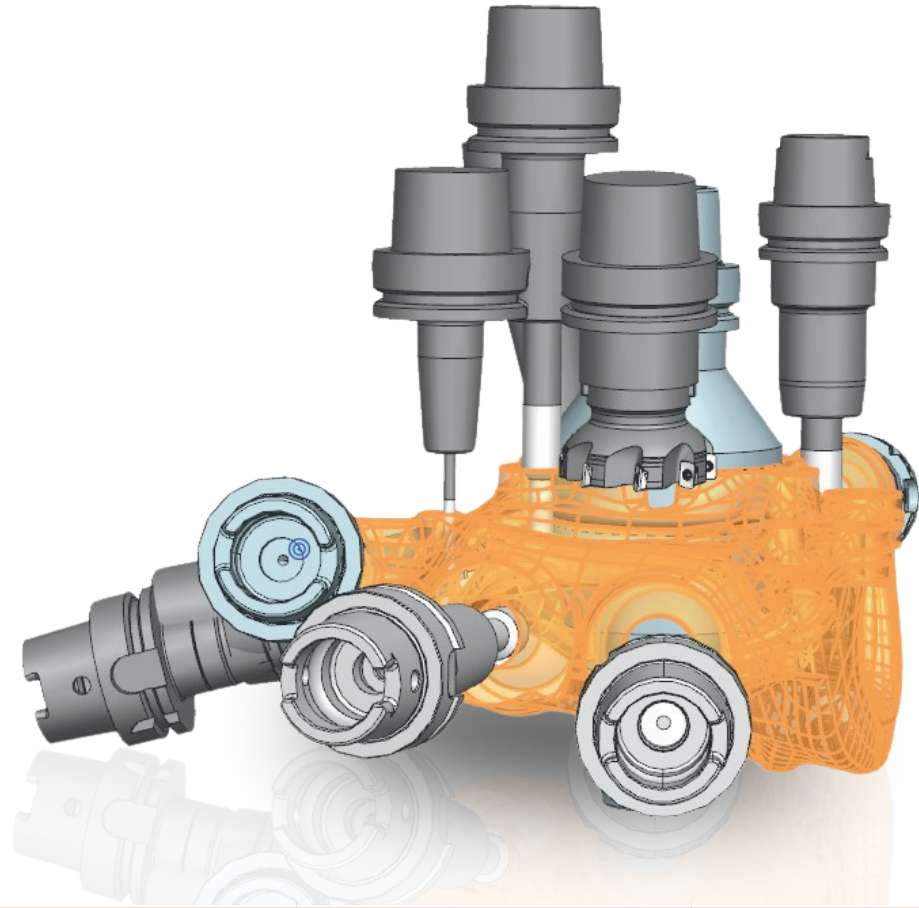
PROCESS OPTIMIZATION

Maximize productivity and extend tool Life



FIXTURE & CLAMPING CONCEPTS

Custom workholding for complex components



FROM CONCEPT TO PRODUCTION SUCCESS

STATE-OF-THE-ART TECHNOLOGY



Investing in world-class Technology to deliver unmatched **precision**, **repeatability** and **performance**.

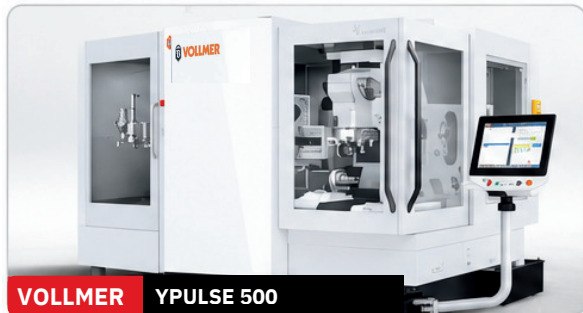
OUR CAPABILITIES

SOLID CARBIDE TOOLS

- ✓ DRILLS Ø3.0 - 60.0 MM
- ✓ STEP DRILLS Ø3.0 - 60 MM
- ✓ ENDMILLS Ø3.0 - 52.0 MM
- ✓ REAMERS Ø3.0 - 32.0 MM
- ✓ FORM TOOLS Ø3.0 - 60.0 MM
- ✓ ROUTERS Ø3.0 - 50.00 MM

PCD TOOLS

- ✓ MONOBLOCK Ø6 TO 200
- ✓ MODULAR Ø16 TO 200
- ✓ CYLINDRICAL SHANK Ø6 TO 32
- ✓ ROUGHING/FINISHING
- ✓ PCD BRAZED
- ✓ THROUGH/ NON TROUGH COOLANT
- ✓ SHANK TYPE BT/ISO/SK/HSK/HA/HB/HE



VOLLMER YPULSE 500



REINECKER RS800



SAACKE CNC GRINDING



WALTER VISION DIAMOND



PCD PRODUCTION



SOLID CARBIDE PRODUCTION



TRAINING AUDITORIUM



APPLICATION R&D CENTER

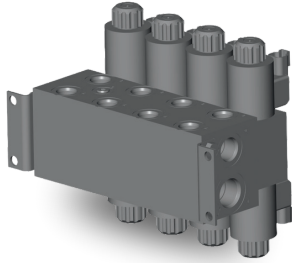
ENGINEERING
 MANUFACTURING
 INSPECTION
 VALIDATION
 DEMONSTRATIONS

INDUSTRY APPLICATIONS

SUPPORTING CRITICAL APPLICATIONS ACROSS MULTIPLE INDUSTRIES

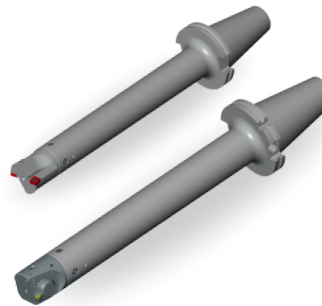
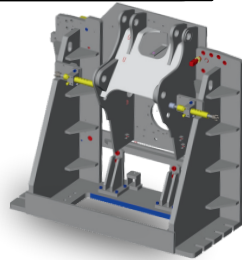


FLUID POWER



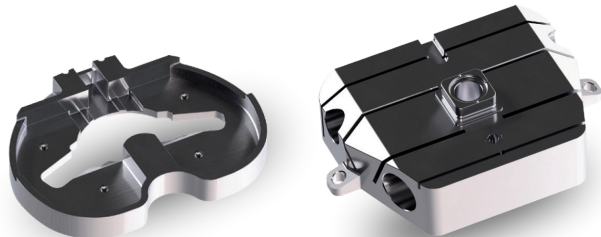
- Hydraulic Valve Bodies
- Manifolds
- Pump Housings
- Precision Bores

HEAVY EQUIPMENT



- Construction Machinery
- Hydraulic Components
- Mining Equipment
- Structural Castings

MEDICAL



- Orthopedic Implants
- Bone Plates
- Surgical Components
- Medical Equipments

 **ENGINEERING SOLUTIONS. BUILT FOR PERFORMANCE.**

ADVANCED INDUSTRIES ENGINEERED SOLUTION

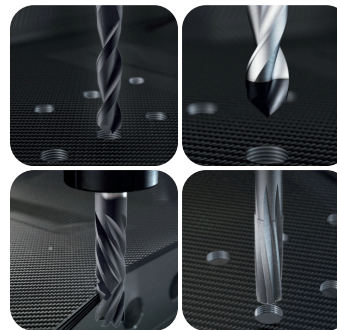
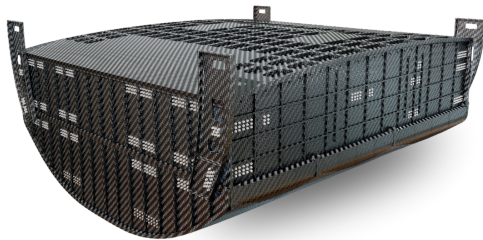


AEROSPACE



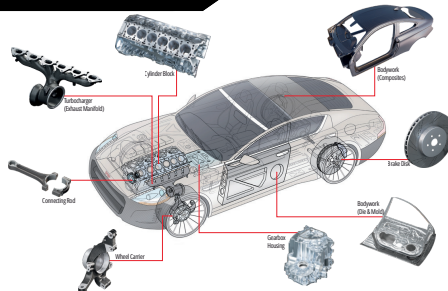
- Titanium Component
- Inconel Machining
- Engine Structures
- Landing gear components
- Aerospace Fasteners

CFRP & COMPOSITES



- CFRP Drilling
- Stack Material Machining
- Composite Trimming
- Delamination-free Cutting
- Aerospace Composite Structures
- Advanced Routing Solutions

AUTOMOTIVE



- Cylinder Heads
- Engine Blocks
- Transmission Systems
- Structural Castings
- EV Components
- Powertrain Solutions



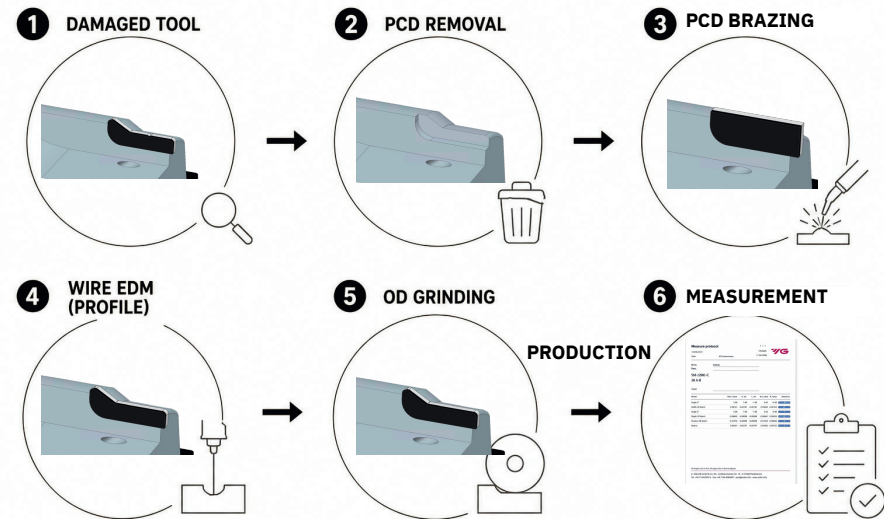
ONE PARTNER. MULTIPLE INDUSTRIES. ENDLESS POSSIBILITIES.

PCD EXPERTISE

WE CAN RENEW ANY COMPETITORS TOOLING & PRODUCT.



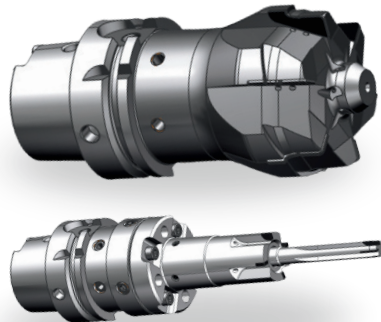
PCD RENEWAL PROCESS



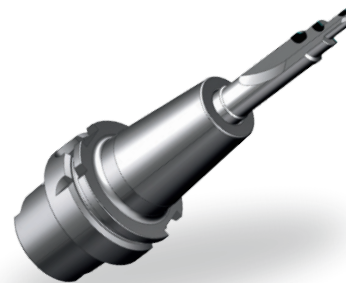
PCD FACE MILL



PCD REAMER



PCD STEP DRILL



PCD PADDED REAMER



SOLID CARBIDE TOOLS



CUSTOM ENGINEERED SOLUTIONS FOR EVERY APPLICATION.



**MAXIMUM
PRECISION**



**SUPERIOR
PERFORMANCE**



**LONG TOOL
LIFE**



**CONSISTENT
QUALITY**



**CUSTOM
SOLUTIONS**



**PRODUCTIVITY
FOCUSED**



REGRIND SERVICE

SOLID CARBIDE TOOLS REGRIND PROCESS





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SCAN TO
LEARN MORE

