

# DEMOLITION TOOLS

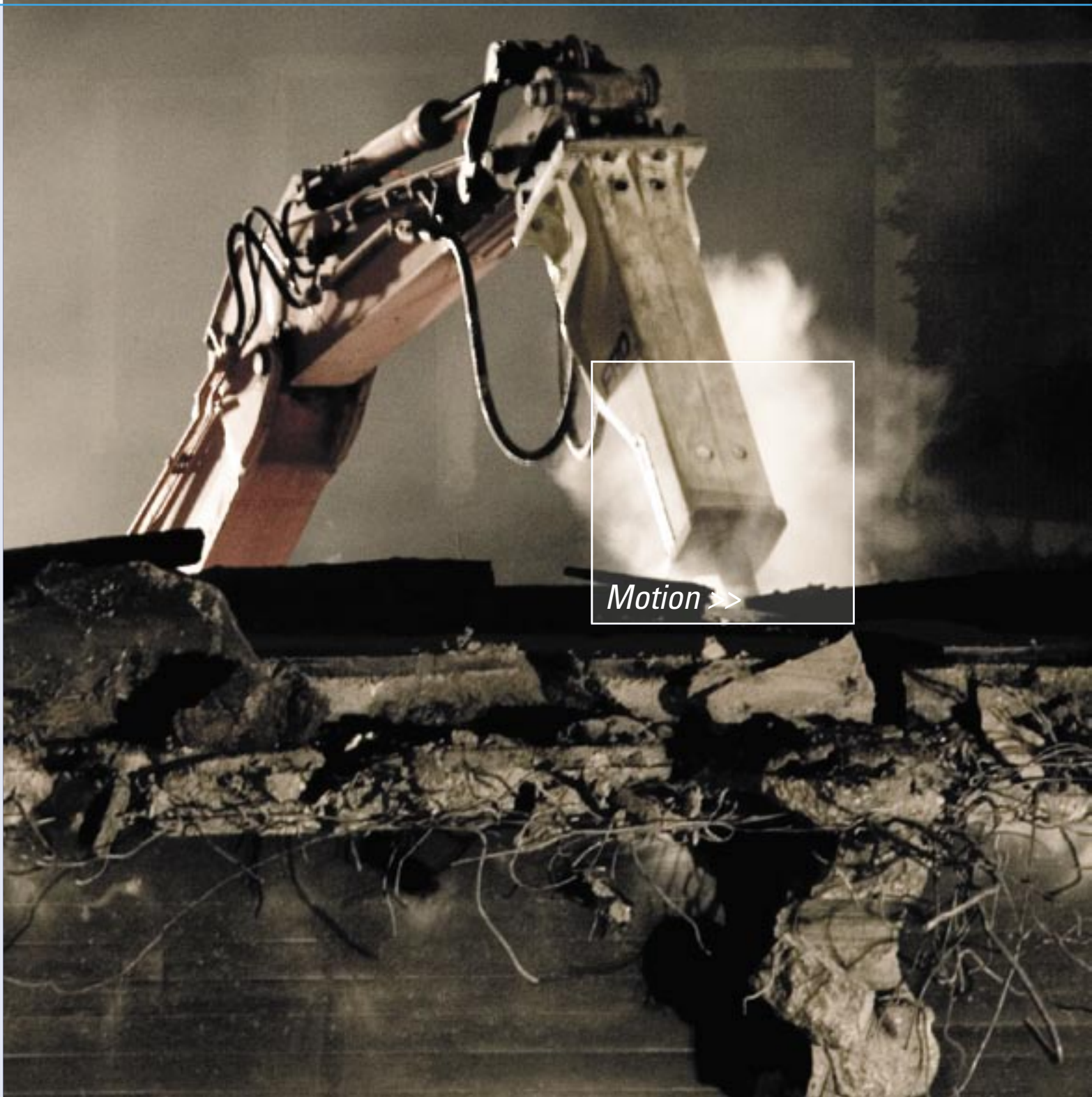
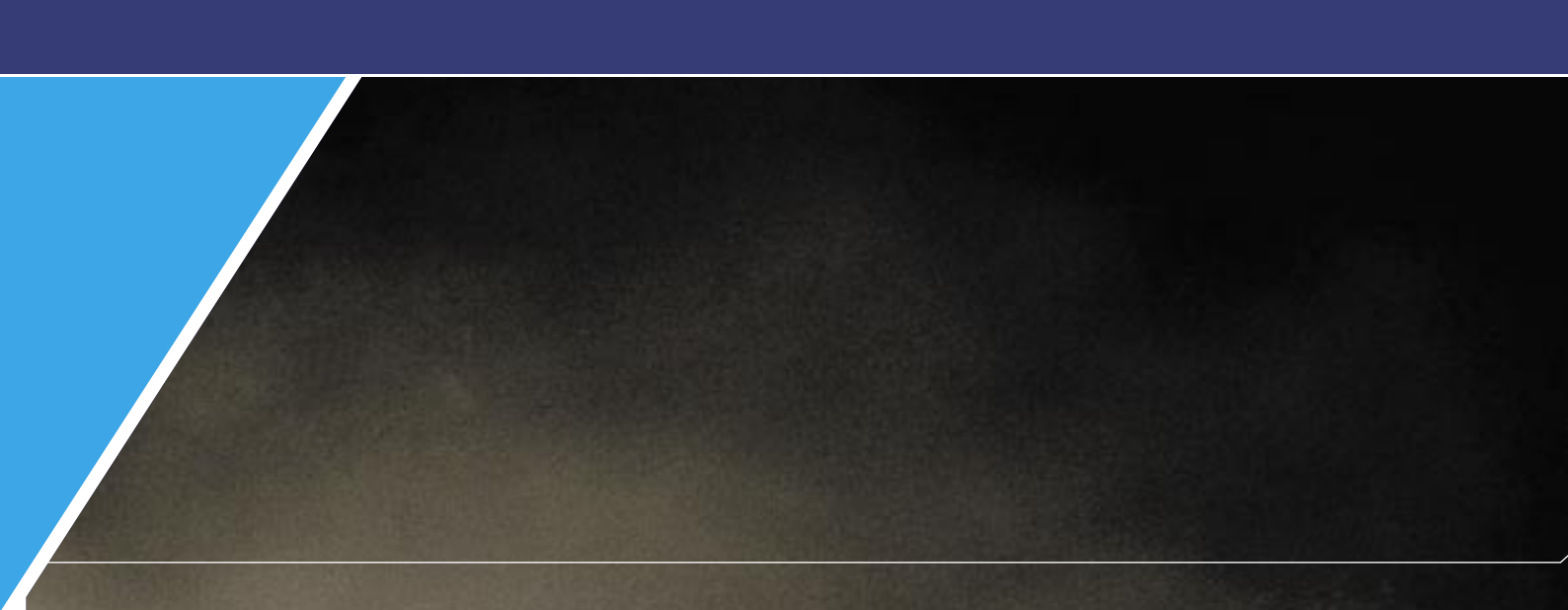


German quality to **keep hydraulic breakers in motion...**



**MEISSEL.DE**  
ABBRUCHTECHNISCHE WERKZEUGE

*SMUG TOOLS GmbH Abbruchtechnische Werkzeuge  
Herstellung und Vertrieb von Werkzeugen für  
hydraulische Baumaschinenkomponenten*



*Motion >>*



## Our Company

### The Company

SMUG TOOLS GmbH is a medium-sized company. We design, construct, manufacture and distribute high-quality inserting tools for hydraulic breakers since 1998. Our name and our products are a guarantee of quality and efficiency expected of a German engineering company.



### The Philosophy

Customer satisfaction is the key to all our business transactions. Therefore, we take the manufacturing of qualitative high-grade products for granted, such as the customer proximity. It is our job to make sure that customer needs are fulfilled. We are prepared to customise arrangements at short notice and we react flexibly to changes of quanti-

ties or deadlines. Our record of personal and direct relationship with our customers have been instrumental in the development of our products and the company's rapid growth into a major pan-European manufacturer and supplier of inserting tools for machine operated hydraulic breakers.

Qualified staffs are the basis of our enterprise force. Their expertise and experience are the guarantee for innovative potential and quality. With sense responsibility of they contribute to quality assurance and get involved with optimisation of production processes. We are a professional team which not leave quality to chance.

### Location

Production, storage and management are located in the town of Ratingen, near Düsseldorf, Germany. This central European location facilitates the distribution of our products to home and foreign markets.

### Logistics

Close cooperation with our forwarding agents and shippers ensures the timely delivery to customers, even in urgent situations.







## The Inserting Tools

### The Steel Quality

We use alloyed steel of high quality obtained from European steel works which has been analytically tested within strict tolerances for purity and grain sizes. In addition ultrasonic testing is carried out.

### The Manufacture

Turning, milling and grinding on state of the art CNC controlled machines ensure dimensional accuracy of inserting tools during the whole production. This machining allows nearly every special design of an inserting tool. Strict quality control is effected at the end of each manufacturing stage.





### The Heat Treatment

The hardening and subsequent tempering are effected by a combined heat treatment procedure at computer controlled atmosphere dual furnaces. The results are maximum hardness (equal surface and core hardness), impact value and concomitant optimal toughness and strength properties under alternating flexural stress.

### The Quality

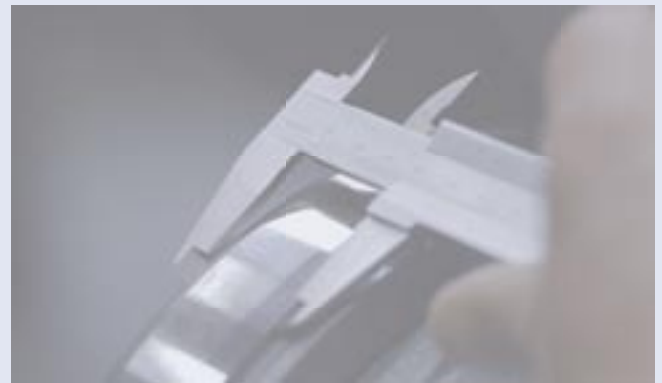
Quality is no chance. All production processes are subject to severest checks and are documented. Our inserting tools are impact stamped with a unique serial number and point of origin mark in order to source all important production data.

### The Warranty

We offer extended warranty for material quality, accuracy of production and correct heat treatment. Quality is the best warranty.

### The Refinishing Operation

The equal surface and core hardness of our inserting tools permits a reconditioning by turning and milling with carbide tools. Therefore, a subsequent heat treatment is not essential.



### **SMUG TOOLS -**

*„German quality to keep hydraulic breakers in motion!“*





## Variety of Products

Our manufacturing and sales range provide a wide assortment of diverse goods.

- **Inserting tools for most known hydraulic breakers.**

Over 1500 diverse types and designs are available promptly from our stock.

- **Inserting tools for nearly all hand-held pneumatic and electric breakers.** All saleable types are available promptly from our stock.

- **Shear blades and demolition teeth for mobile scrap-, concrete-shears, crushers and pulverisers.** Saleable types are available on short notice from our stock.

- **Spare parts and wearing parts for hydraulic breakers.** Such as bushings, pistons, retainer pins and lubrication grease.

Naturally, we are constantly adapting our assortment to current market requirements. Special designs are realisable at short notice.

As a service provider we fill orders like repairs of construction machines and hydraulic accessory equipment.





## Inserting Tools



### Point Chisel

Design: conical point  
Properties: breaking up, cleaving



### XL-Blunt Chisel

Design: base diameter > shank diameter  
Properties: smashing, crumbling, compressing



### Pyramidal Point Chisel

Design: milled pyramidal point  
Properties: breaking up, cleaving



### Spade Chisel

Design: milled edge contour  
Properties: separating, trenching



### Flat Chisel

Design: milled edge contour, cutting edge surface end tapered  
Properties: cleaving, separating and trenching



### Demolition Chisel

Design: square end tapered  
Properties: smashing and trenching of extremely tough materials



### Blunt Chisel

Design: base diameter = shank diameter  
Properties: smashing, crumbling



### Pile Ram Chisel

Design: turned and drilled contour, Inside diameter must exceed diameter of pile 10 mm  
Properties: Tool for driving piles or pipes into sth. The specialty is the precise guide of the tool



## Spare Parts and Wearing Parts



### Wearing Parts for Machine operated Hydraulic Breakers

Design: Pistons, bushings, retainer pins  
Manufactured of high quality steels, through-hardened, pre-finished. Special bodies are possible.



### Demolition Teeth

Design: Manufactured of high wear-resistant cast steel  
Properties: for scrap- and concrete-shears, crushers and pulverisers



### Inserting Tools for Hand-Held Breakers

Design: forged  
Properties: for pneumatic-, electric- and petrol-breakers



### Shear Blades

Design: Manufactured of alloyed tool steel, pre-finished.  
Properties: for scrap- and concrete-shears, crushers and pulverisers





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ABBRUCHTECHNISCHE WERKZEUGE

SMUG TOOLS GmbH Abbruchtechnische Werkzeuge

Fon: +49 (0) 21 02. 99 66 -0 • Fax: +49 (0) 21 02. 99 66 -22  
info@meissel.de • www.meissel.de