

# Innovation

Higher productivity  
with „Lite-Cut“

**botek**<sup>®</sup>

DEEP HOLE DRILLING SYSTEMS  
SOLID CARBIDE TOOLS



## **Type 110**

### **Single flute gundrill**

with brazed solid carbide tip

Diameter range: 1.850 - 51.200 mm

## **Type 113**

### **Solid carbide gundrill**

kidney shaped coolant channel

Diameter range: 1.500 - 12.000 mm

**Lite-Cut = special cutting geometry  
for reduced cutting force**



## **Advantages:**

- for difficult to machine materials
- reliable chip breakage
- improved chip removal
- higher feed rate
- with superior drilling quality



## Application example:

### Machine set-up



Material:	ST52-3
Characteristics:	particularly long chipping material
Drill diameter:	3.0 mm
Drilling depth:	100 mm
Coolant:	Emulsion

### Initial situation:

- long chips
- chips are wrapped around tool
- Tool breakage

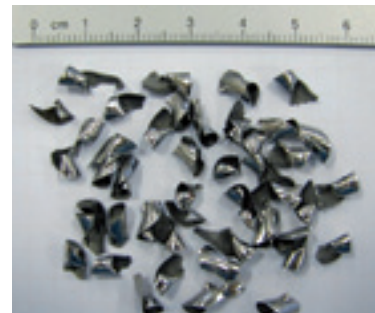
### Solution:

Solid carbide gundrill type 113 with „Lite-Cut“

### Result:

- chips are short and compact

### Picture of chips:



### Conclusion:

The new cutting geometry „Lite-Cut“ produces short and compact chips which can be evacuated out of the bore with a rather low pressure.

**Let us know your application – we develop your drilling process and accompany you from development stage to successful realization.**

**Further information: [www.botek.de](http://www.botek.de)**

### Service:

- **Regrinding and coating**  
botek offers prompt and cost effective in house regrinding / coating service.
- **Process auditing**
- **Customer testing and process development in our research and development department**

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# botek®

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