



Cold recycling and soil stabilising

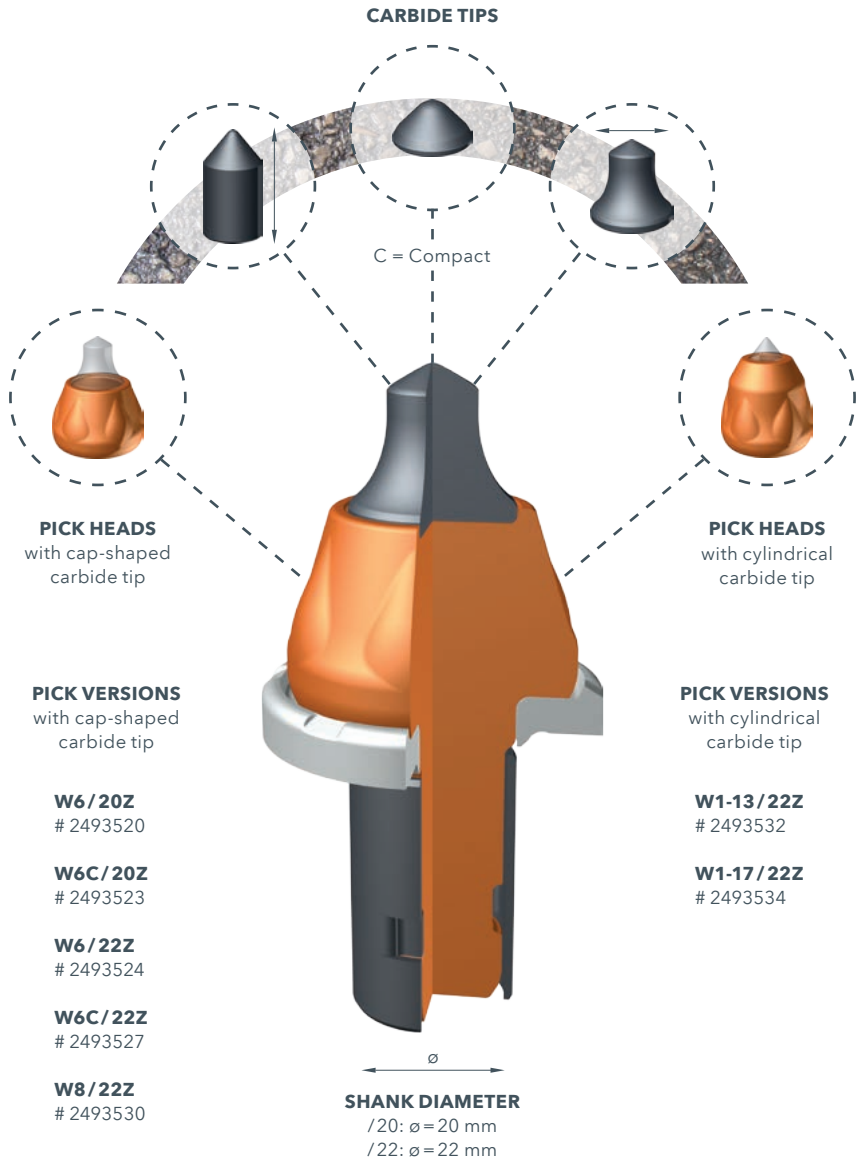
**PICKS**

**GENERATION Z**



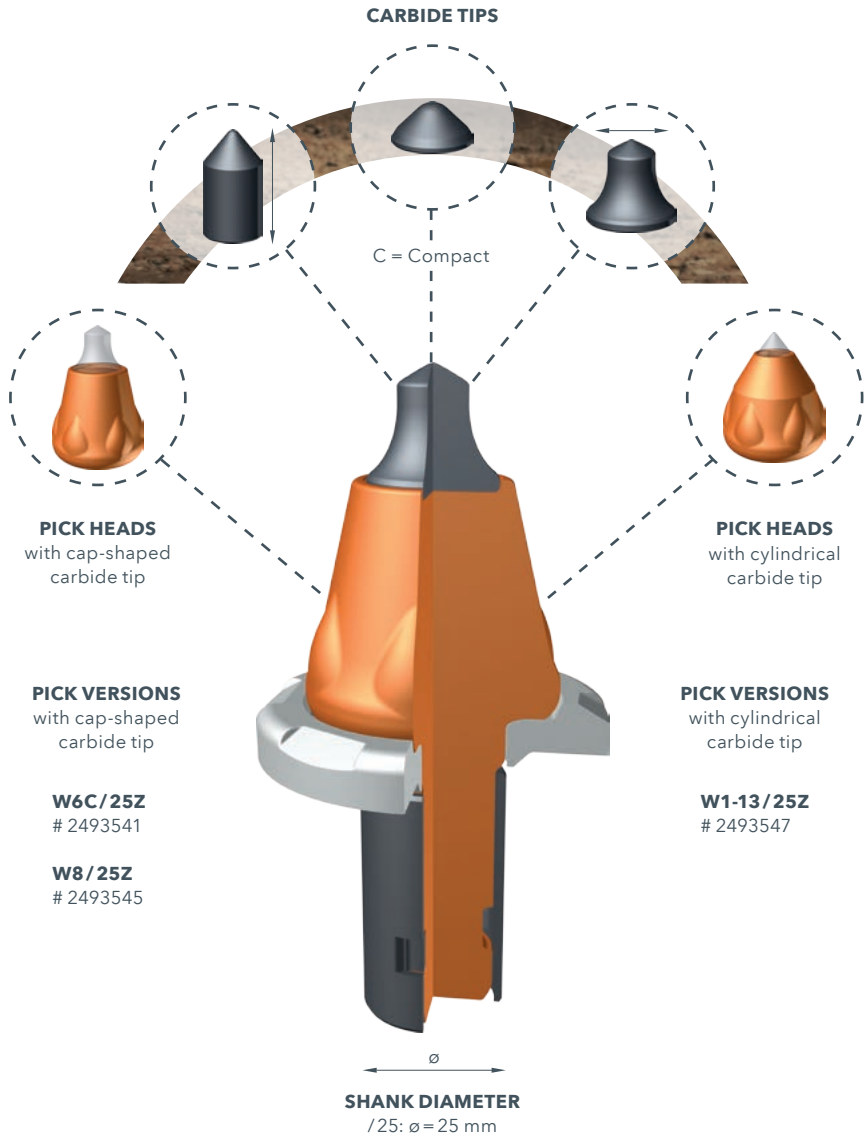
**CLOSE TO OUR CUSTOMERS**

Pick with 20 mm and 22 mm shank diameter





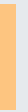

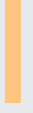




Pick with 25 mm shank diameter



Application	Machine type*
 Cold recycling and pulverising	WR 2000, WR 200, WR 2400, WR 240, WR 2500 S, WR 250
 Soil stabilising	WR 2000, WR 200, WR 2400, WR 240, WR 2500 S, WR 250, WS 220, WS 250

Abrasiveness (abrasive materials) →			For use in quick-change toolholder system
<p>Impact stress (Rock size/rock component increases) ↓</p>			
 <b>W1-13/22Z</b> # 2493532	 <b>W6/22Z</b> # 2493524	 <b>W8/22Z**</b> # 2493530	HT22 D22, HT11 D22, HT3 D22
	 <b>W6C/22Z</b> # 2493527		
		 <b>W8/25Z</b> # 2493545	
	 <b>W6C/25Z</b> # 2493541		HT22 D25, HT11 D25, HT3 D25
 <b>W1-13/25Z</b> # 2493547			

\* Specifications also valid for all machines in "i" version  
 \*\* WIRTGEN cold recycling machines and soil stabilisers are fitted at the factory with this pick type.



## RECOMMENDATIONS FOR APPLICATION

### USE IN COLD RECYCLING AND PULVERISING

On road works, the picks penetrate under the base layer, and sometimes even deeper into the ground. Depending on the road surface structure and the materials/additives used, it must be assumed that there will be abrasive (grinding) rocks with low grain size and, to some extent, tough binding elements. High cutting forces are applied when cutting these layers, which can be favoured by using a carbide tip with a higher cutting performance (e. g. W6). With increased abrasiveness, the size of the carbide tip should also be adjusted. A cylindrical carbide variant is recommended if larger pieces of rock or clods of soil are involved.



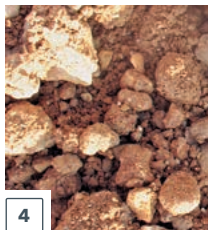
1



3



2



4

### USE IN SOIL STABILISING

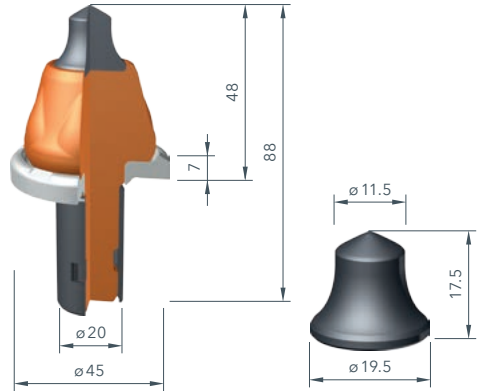
Compact soil/milled material usually contains abrasive (grinding) materials that flow around the carbide tip and the pick head during the cutting process. In this application case, the wear to the steel body dominates, thereby limiting the service life of the tool. Here, the carbide tip needs to deflect the material away from the steel body (pick head), reducing its wear.

For ground that contains pieces of rock, use of a pick with a cylindrical tip (or with a W6C tip) is recommended. In this case, the resistance to carbide breakage is the decisive factor because sudden impact stresses have to be deflected. When massive rock sizes apply extreme shaft stress on the pick, a pick with a 25 mm shank diameter can be used by replacing the top section in the quick-change toolholder system. Another useful alternative for this application example is the WCC milling tool, which particularly shows its advantages or enormous impact resistance in handling large pieces of rock.

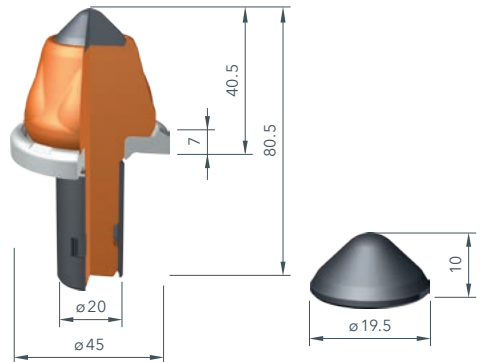
- 1 > Asphalt layers with gravel layer beneath
- 2 > Extremely abrasive supplementary gravel
- 3 > Highly compact ground interspersed with stones
- 4 > Very gravelly soil with abrasive rocks

**W6 / 20Z****Part No.: 2493520**

Type	Meaning
W6	Cap-shaped carbide tip for mixing compact soils
/20	Held in the toolholder bore with a shank diameter of 20 mm
Z	Generation identification/ product characteristic
Quantity per toolbox: 40 pieces	
Weight per toolbox: 15.30 kg	
Carbide weight per pick: 37 g	

**W6C / 20Z****Part No.: 2493523**

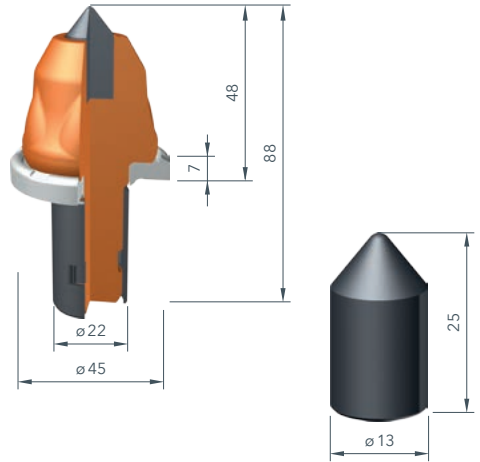
Type	Meaning
W6	Cap-shaped carbide tip for mixing soils with small to medium-sized pieces of rock
C	Flat carbide tip for increased break resistance
/20	Held in the toolholder bore with a shank diameter of 20 mm
Z	Generation identification/ product characteristic
Quantity per toolbox: 40 pieces	
Weight per toolbox: 14.50 kg	
Carbide weight per pick: 24 g	



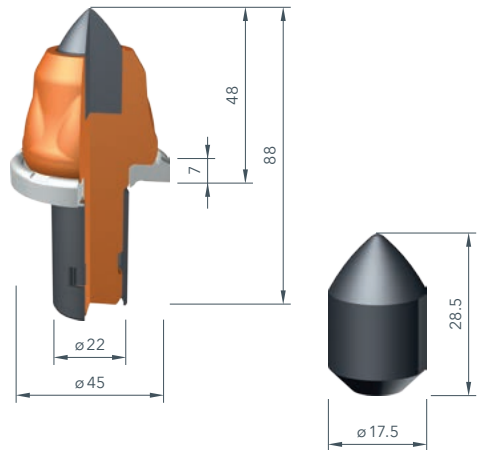
Dimensions in mm

**W1-13 / 22Z****Part No.: 2493532**

Type	Meaning
W1	Cylindrical carbide tip for mixing increasingly rocky soils
-13	13 mm carbide tip diameter
/22	Held in the toolholder bore with a shank diameter of 22 mm
Z	Generation identification/ product characteristic
Quantity per toolbox: 40 pieces	
Weight per toolbox: 16.90 kg	
Carbide weight per pick: 39 g	

**W1-17 / 22Z****Part No.: 2493534**

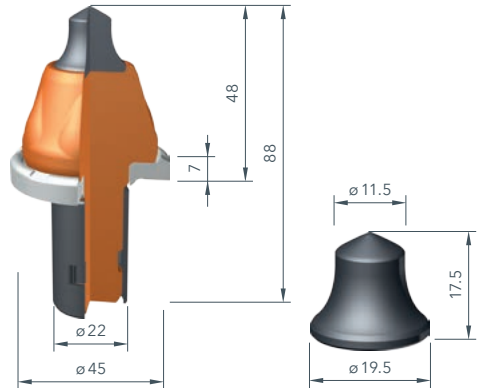
Type	Meaning
W1	Cylindrical carbide tip for mixing increasingly rocky soils
-17	17 mm carbide tip diameter
/22	Held in the toolholder bore with a shank diameter of 22 mm
Z	Generation identification/ product characteristic
Quantity per toolbox: 40 pieces	
Weight per toolbox: 17.70 kg	
Carbide weight per pick: 74 g	



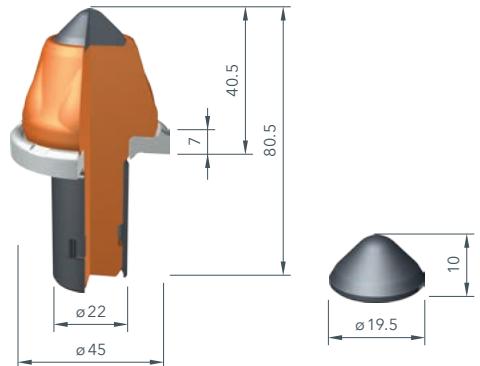
Dimensions in mm

**W6 / 22Z****Part No.: 2493524**

Type	Meaning
W6	Cap-shaped carbide tip for mixing compact soils
/22	Held in the toolholder bore with a shank diameter of 22 mm
Z	Generation identification/ product characteristic
Quantity per toolbox: 40 pieces	
Weight per toolbox: 16.50 kg	
Carbide weight per pick: 37 g	

**W6C / 22Z****Part No.: 2493527**

Type	Meaning
W6	Cap-shaped carbide tip for mixing soils with small to medium-sized pieces of rock
C	Flat carbide tip for increased break resistance
/22	Held in the toolholder bore with a shank diameter of 22 mm
Z	Generation identification/ product characteristic
Quantity per toolbox: 40 pieces	
Weight per toolbox: 15.70 kg	
Carbide weight per pick: 24 g	

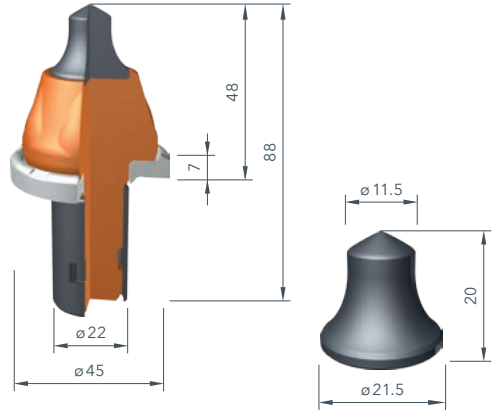


Dimensions in mm

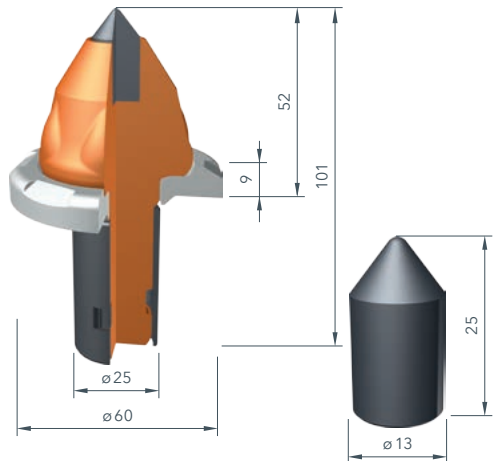


**W8 / 22Z****Part No.: 2493530**

Type	Meaning
W8	Cap-shaped carbide tip for mixing compact soils
/22	Held in the toolholder bore with a shank diameter of 22 mm
Z	Generation identification/ product characteristic
Quantity per toolbox: 40 pieces	
Weight per toolbox: 16.50 kg	
Carbide weight per pick: 47 g	

**W1-13 / 25Z****Part No.: 2493547**

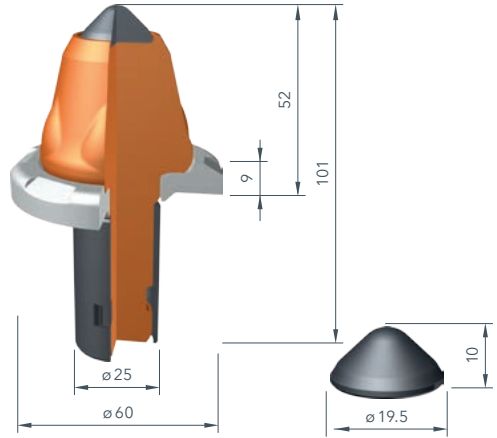
Type	Meaning
W1	Cylindrical carbide tip for mixing increasingly rocky soils
-13	13 mm carbide tip diameter
/25	Held in the toolholder bore with a shank diameter of 25 mm
Z	Generation identification/ product characteristic
Quantity per toolbox: 15 pieces	
Weight per toolbox: 10.25 kg	
Carbide weight per pick: 39 g	



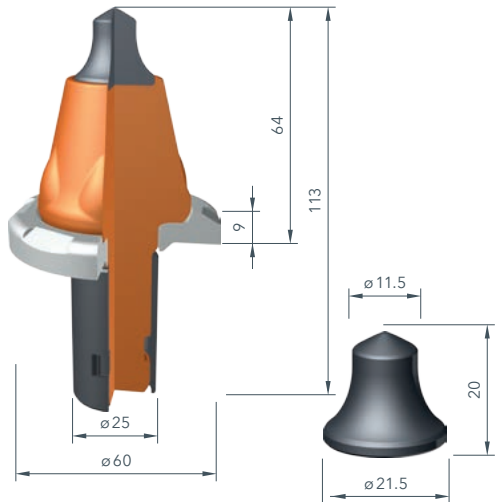
Dimensions in mm

**W6C / 25Z****Part No.: 2493541**

Type	Meaning
W6	Cap-shaped carbide tip for mixing soils with small to medium-sized pieces of rock
C	Flat carbide tip for increased break resistance
/25	Held in the toolholder bore with a shank diameter of 25 mm
Z	Generation identification/ product characteristic
Quantity per toolbox: 15 pieces	
Weight per toolbox: 10.40 kg	
Carbide weight per pick: 24 g	

**W8 / 25Z****Part No.: 2493545**

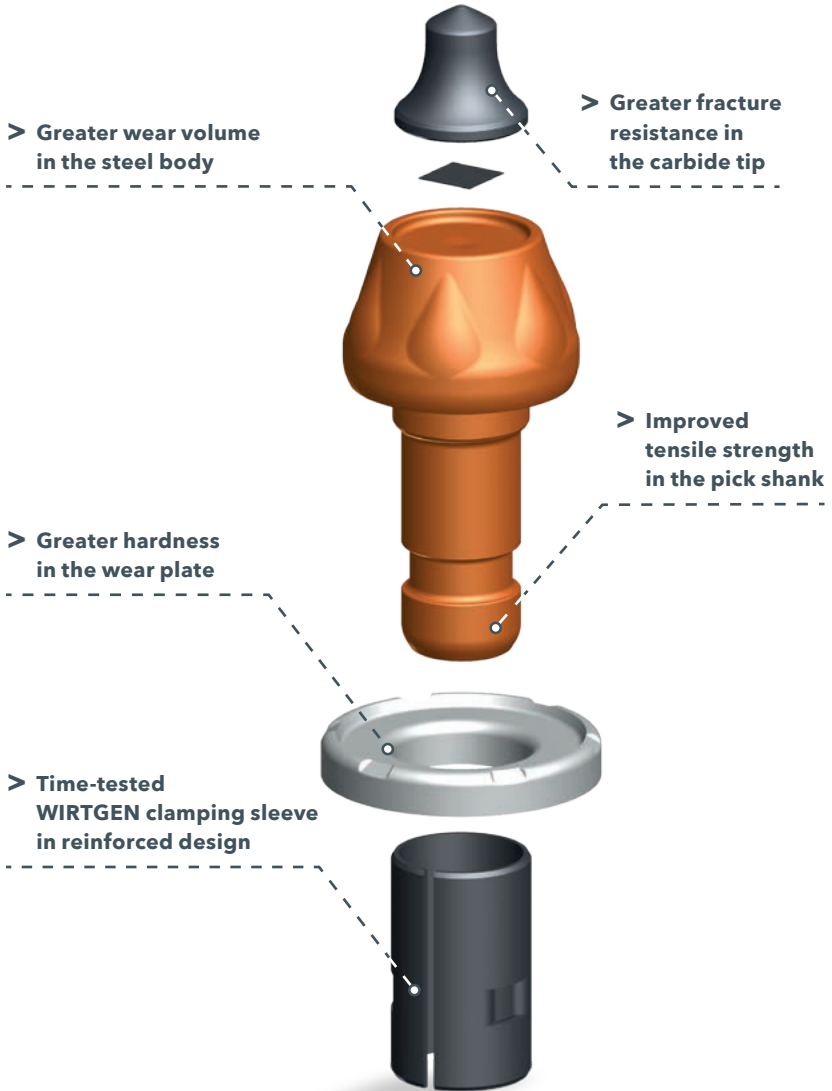
Type	Meaning
W8	Cap-shaped carbide tip for mixing compact soils
/25	Held in the toolholder bore with a shank diameter of 25 mm
Z	Generation identification/ product characteristic
Quantity per toolbox: 15 pieces	
Weight per toolbox: 10.40 kg	
Carbide weight per pick: 47 g	



Dimensions in mm



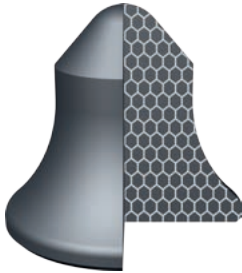
## All-rounder for cold recycling and soil stabilisation





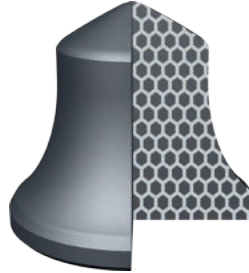
## Optimised carbide mix dimensionally correct for applications where high impact loads are expected.

> Carbide tip on a conventional pick with a tungsten-cobalt mix of 94 % to 6 %



> Carbide base 1.25 mm thick

> Carbide tip on a **GENERATION Z** pick with a tungsten-cobalt mix of 93 % to 7 %



> Carbide base 1.75 mm thick - 40 % thicker than in conventional picks

 Tungsten

 Cobalt

## RESILIENT AND RELIABLE

### Greater fracture resistance in the carbide tip:

An optimised carbide composition and adapted tip geometry achieve a greater fracture resistance in the carbide tip.



**Greater wear volume in the steel body:**

The steel body can be a factor in limiting full utilisation of a pick when it comes to abrasive materials. The carbide can be virtually fully exploited thanks to the increased wear volume in **GENERATION Z**.

**Greater hardness in the wear plate:**

The greater degree of hardness in the wear plate ensures maximum toolholder protection.



### **Improved tensile strength in the pick shank:**

The repositioning of the clamping sleeve bearing on the lower end of the pick shank has improved the tensile strength in **GENERATION Z** pick shanks compared to conventional cutting tools.

### **Time-tested WIRTGEN clamping sleeve in reinforced design:**

The reinforced clamping sleeve ensures that the pick is permanently and dependably secured in the toolholder bore.





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