



SUCO Diamond & PKD Rotary Dressers

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### **Economic and technological points of view and trends**

The listed advantages of dressing with diamond rotary dressers caused especially in the industrial scale manufacture a fast breakthrough of this dressing method. A complete automation of the industrial scale manufacture partly became just increasing through the application of diamond rotary dressers:

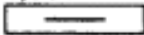



- increasing of mass production
- lacking of skilled labour within series-production
- cumulative machine- and labour costs
- cumulative dressing frequency when grinding difficult remove material






### **Application course**

- automobile industry (engine, transmission, chassis, steering)
- electrical industry
- airplane industry (drive, hydraulics)
- thread industry (fastening thread, cutting thread)
- gear cutting industry
- rolling-contact bearing industry (inside rings, outer rings, spring collets)



The smallest possible tolerances at diamond rotary dressers are obviously from the following listing:

Längenmaß	$\pm 0,002 \text{ mm}^*$
Stufenmaße	$\pm 0,002 \text{ mm}^*$
Winkel	$\pm 1'$ abhängig von der Schenkel-länge)
Ebenheit	0,002 mm 
Radien-Linienform (Querform)	0,002 mm 
Radiengröße	+ 0,002 mm*
Rundlauf zu einer fläche A	0,002 mm  A
Zylinderform	0,002 mm 

Rundlauf des gesamten Profils zur Aufnahmebohrung	0,004 mm  Profil A
Durchmesser der Aufnahmebohrung	Toleranz-klasse H 3
Rundlauf des gesamten Profils zum Meßzylinder	0,002 mm  Profil MZ
Ebenheit der Anlagefläche	0,001 mm 
Rechtwinkeligkeit der Anlagefläche zur Bohrung	0,002 mm  A
Planlauf der Anlagefläche zur Bohrung	0,002 mm  A

\*engere Toleranzen sind nach Absprache möglich



Precision tools from BERLIN stand for:  
QUALITY. — Diamond tools from BERLIN stand  
for: **SUCO**. In 1962 **SUCO**, short for Schmitz and  
Company, manufacturer of diamond tools, was founded in  
Berlin. Due to the high standard of quality of their products **SUCO**  
quickly succeeded in establishing a good reputation amongst experts.  
Continuous development of their products, improvement of their quality  
standards as well as the extension of their range of products have  
given **SUCO** a firm position in industry. To maintain and further  
improve those standards will continue to remain our  
objective. — Diamond tools always were a matter of  
confidence. — Rely on us and our competence.  
We will be happy to pass on our experience  
to you. **SUCO**: your partner in  
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