Knife Holders

Quality. By professionals for professionals.
Dienes – It may be possible to copy us, but our knife holder quality always sets us apart. More than 1 million knife holder sales speak for themselves …

Since 1913, Dienes Werke has meant outstanding quality, expertise and breakthrough innovations in the field of industrial slitting technology. Dienes is the worldwide leading supplier of circular and straight knives, knife holders and slitting systems as well as a competent partner for all related services.

Standard knife holders often do not meet varying customer requirements nor very special applications. The Dienes slitting laboratory will test cut materials with a variety of different holders and knife designs in order to determine the best solution for long term performance, functionality, and user friendliness.

**Many patents of the Dienes Group trace back to these intensive research activities:**

- High speed holder 3500 m/min
- Driven shear cut holder
- Constant side load CSL
- Double axle guidance DF
- Quick-change head SWK
- Adjusting slide Easy Set
- 360° knife guard SH
- Automatic depth adjustment
- Modular design
- Clean cut
- Shear angle plate
- Micro-depth adjustment
- Quick-Clamp QC
- Replacement tools
- Vibration analysis
- Electronic service life control
- Integrated knife size identification
- Spring-energy memory FES
- Telematic service and many more …
1. Shear Cut Knife Holders
- PSGm 19 DF
- PSGm 25 DF
- PSGs 50 DF
- PSGs DF Power
- PSG DF 145
- PSG DF 150 Speed
- PSG DF 150 Motion
- PSG DF 145 Control
- PSGm 16
- PSGs 50
- PSG 1

2. Crush Cut Knife Holders
- PQA DF 19
- PQA DF 50
- PQG
- PQAS 6,35 - 12,7 mm
- PQDS 6 - 20 mm
- PQA MC/PQD MC

3. Slitting Cassettes
- Crush Cut Module III
  Slit Width from 6 mm
- Dienes Mini Cut
  Slit Width from 4 mm
- Shear Cut Cassette

4. Heat Cut Holders
- Heated Crush Cut PQAS BH
- Crush Cut Heat Cut PQAS H

5. Razor Blade Cut Holder
- Pneumatic Knife Holders with Razor Blade Heads
- Crush Cut Knife Holders with Razor Blade Arms PQAS R, PQDS R
- Individual Razor Blade Holders
- Razor Blade Cassettes

6. Safety Accessories and Service Tools
- Hand Guards
- Blade Exchange Tools
- Protective Gloves
- Adjusting Aids
- Maintenance Tools
- and more …
PSGm 19 DF

Cleaning felt
- automatic self-cleaning of knives
- clean cuts

Individual vertical loading
- adjustable side load

Various mounting adapters compatible with all machine types

Precise adjustment of knife depth 20 mm stroke
- exact overlap depth control

Adjusting slide
- Easy set

Shear Cut Knife Holders
PSGm 19 DF | PSGm 25 DF
**PSGm 19 DF – Our Versatile**

The special construction of this knife holder allows for zero clearance in vertical and horizontal guidance. Thus, with multiple holders, slit widths down to 19 mm can be reached without sacrifices to blade rigidity.

**Advantages:**
- Nesting concept
- Rigid construction
- Narrow slit widths

**Knife Head Variants**

Rigid: for hard materials such as aluminium etc.

Spring-loaded: for soft synthetics, latex, rubber, foils etc.

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**PSGm 25 DF – Proven Technology**

Due to its zero clearance vertical double axle guidance, this knife holder guarantees the utmost rigidity while keeping a minimum slit width of 25 mm. User convenience is greatly increased by its precise depth adjustment and quick change knife head for easy knife replacement.

**Advantages:**
- Optimum slitting edge quality, even with difficult materials
- Drastic reduction of machine down times due to the quick-change head system
Shear Cut Knife Holders
PSGs DF 50 | PSGs DF Power

- Precise adjustment of knife depth
- 360° guard hand protection
- Modular construction with varied knife heads available
- Various mounting adapters compatible with all machine types
- Cleaning felt with axial stroke

PSGs DF Power
PSGs DF 50
PSGs DF 50 – Our Bestseller

This shear cut knife holder meets the demand for narrow overall width while providing maximum rigidity - even at high cutting speeds. This is guaranteed by the zero clearance, vibration-damped vertical and horizontal guidance systems.

Advantages:

• Repeatable knife contact forces adjustable to the material to be cut
• Increased knife life
• Optimum cutting edge quality even with difficult to cut materials
• Option: Quick-change mechanism available as an option for shear and razor blade cut

The Dienes shear cut knife holders type Elite excel by their two pre-loaded, ball-bearing knife holder axles.

PSGs DF Power – Our Driven

The top knives of air-operated knife holders are normally rotated by the friction with the driven bottom knife. In the case of very sensitive materials - e.g. light weights such as cigarette and teabag paper or aluminium foil - any slippage between the top and bottom knife will have a very negative effect on slitting edge quality. To avoid this slippage, Dienes has developed driven top knives of various designs.

Advantages:

• Elimination of slippage
• High-precision slitting edges
• Precisely-matched speeds of top/bottom knife and web
• Increased knife life
• Minimal dust formation
• Increased safety due to reduced number of knife replacements
• Knife holders in modular designs
Precise adjustment of knife depth
Accuracy 0,1 mm

Touch key
Starting knife size identification

Integrated knife size identification

Various mounting adapters compatible with all machine types

Shear Cut Knife Holders
PSG DF 145 | PSG DF Depth Control
PSG DF 145 – Our Strongest

This shear cut knife holder is applicable with roll slitters as well as sheeters. It is used to guarantee the highest slitting edge quality even under difficult application conditions. With its robust design, a great variety of developments in slitting technology have merged in this holder construction.

Advantages:

- Vibration-damped guidance systems
- Zero clearance vertical and horizontal guiding of the knife head movement
- Suitable for slitting single- and multi-layer paper
- Solves difficult material slitting tasks

Linear bearing mounted for increased user convenience and dramatically reduced setup times (see accessories)!

PSG DF Depth Control – Our Highlight

(Winner of the ICE Innovation Award)

By means of sensor technology the correct overlap depth is shown by an optical signal so there is no need for depth setting measurements.

Advantages:

- Constant and high slitting edge quality
- Reduced setup cost
- Reduced regrinding cost
- No operating errors
- No time-consuming knife adjustments
Shear Cut Knife Holders
PSG DF 150 Motion | PSG DF 150 High Speed

Various mounting adapters compatible with all machine types

- Electric servo-motor
- Integrated knife size identification
- Constant side load CSL System
- Precise adjustment of knife depth
PSG DF 150 Motion – Our Genius

Automatic depth adjustment, integrated knife size calculations, input data via touch panel. This holder is based on the patented Dienes shear cut knife holder of type PSG DF 145 and its existing benefits:

- Double axle guidance DF (vibration absorbing guiding systems)
- 360° knife guard
- Constant side load CSL

Advantages:

- Dramatic increase of knife life
- Constant slit quality
- Numerical input of engagement depth
- Elimination of individual operational errors
- Higher safety standard
- Increased productivity
- Increased user convenience
- Suitable for very difficult slitting requirements

PSG DF 150 High Speed – Our Fastest

The first shear cut knife holder that has been successfully used in practice for cutting speeds up to 3500 m/min. This knife holder is known for its patented vertical knife head guidance, completed by a precise knife overlap depth adjustment and the sensitive “constant side load system” (CSL).

Advantages:

- Dramatically increased knife service life
- Reduced dust generation
- Repeatable and low knife contact pressures
Shear Cut Knife Holders

PSGm 16 | PSGs 50 und PSG 1

Various mounting adapters compatible with all machine types
PSGm 16 – Our Smallest

Our narrowest knife holder with proven movement-free vertical double axle guidance for slitting narrow bands down to 16 mm.

Advantages:

• Due to the small holder width, it is not necessary to use collars or bars with staggered knife holders
• Noticeably increased profitability due to quick slit width adjustment

PSGs 50 and PSG 1 – Our Classics

The construction of these two shear cut knife holder designs has been proven for many years and their functionality for extremely difficult applications has been demonstrated. The holders are known for their almost maintenance free operation along with being easy to adjust and handle.

Advantages:

• Solid design
• Robust possibilities of application
Compressed air loading

Micro-depth adjustment

Knife head removal

Various mounting adapters compatible with all machine types

Crush Cut Knife Holders
PQA DF 19 | PQA DF 50
PQA DF 19 – Our New Development

The special construction of this knife holder type allows a zero clearance vertical guidance. Narrow slit widths down to 19 mm are achieved without any sacrifice in stability.

Advantages:

• Optimum slit edge quality, even with difficult materials
• Drastic reduction of machine-down times due to quick change head system

PQA DF 50 – Our Precise

This crush cut knife holder design meets the demand for a narrow overall width while offering the utmost stability even with high slitting speeds. Its outstanding feature is the zero clearance, vibration-damped vertical guidance of the knife head.

Advantages:

• Maximum vertical force due to optimized piston surface area
• Increased knife service life
• Optimum slitting edge quality, even with difficult material to be cut
• Well proven design for grooving and cracking labels, adhesive tapes, label-stock etc. due to high-precision micro-depth adjustment
• Depth setting in steps of 0.02 mm
• Knife head can be equipped with tool free, quick clamping device, for minimizing setup times
• A combination of high cutting force and positioning accuracy
Various mounting adapters compatible with all machine types

Crush Cut Knife Holders
PQG | PQAS and PQDS
PQG – Our Solid

This crush cut knife holder offers proven technology at an attractive price. It has been used for many years in the most varied applications, e.g. rubber production and rubber processing, fleece materials.

Advantages:
- High product quality
- Applicable for high slitting speeds and difficult manufacturing conditions
- Change head with quick clamp device, tool less (increased min. slit width)

PQAS and PQDS – Our Universals

Years of successful usage, worldwide, for slit widths of 6-20 mm.

All crush cut knife holders available with hand protection!

Advantages:
- High product quality
- Easy handling
- User convenience

PQAS available with the following holder widths: 6/9/9,52/12/12,67 mm

PQDS available with the following holder widths: 6/9/9,52/10/12/12,7/15/20 mm
Crush Cut Knife Holders
Easy Box/Quick-Clamp
Quick-Clamp (DGM 2021166)

Dienes’ Quick-Clamp system is well proven for applications with frequent slit width adjustments. It is available as an option for the Dienes PQDS and PQAS crush cut knife holders.

The Quick-Clamp system eliminates variances from set screw clamping.

**Advantages:**

- Rectangular clamping of the holders
- Minimum setup times
- Tool less repositioning of the crush cut knife holders
- For module application

Dienes Mini Cut

The slitting block Mini Cut for the crush cut system is available in modular design. It consists of several exchangeable slitting cassettes. If you want to change the slit width you simply take another cassette having a different knife spacing.

**Advantages:**

- Optimized exactness due to pre-adjusted slitting widths
- Optimized equal and easy running of the knives, i.e. constant web tension and reduction/elimination of web tear
- Ease of operation even with smallest slitting widths (4 mm)
- Low setup cost
Heat Cut Knife Holders

PQAS BH/PQAS H
PQAS BH – Our Heated

By heating the knives to approx. 70°C, it is possible to prevent adhesive sticking to the knife edge which could lead to customer rejected finished rolls.

**Advantages:**
- Clean cut
- Prevent adhesive sticking to the knife

PQAS H – Our Hottest

Due to the high temperature of 750°C, the material is separated and simultaneously the slitting edges are bonded. Preferred applications: Technical textiles

**Advantages:**
- Clean cutting edges
- Low-cost solution

An electronic thermo control is also available at Dienes. Infinitely variable temperature adjustment relative to material thickness and web speed.
Razor Blade Holders
Razor Blade Cut/PQDS R
Razor Blade Cut

Shear cut knife heads can be exchanged for razor blade heads within seconds and thus they are applicable for the most varied material thicknesses. This applies for the following holders: PSGs 50, PSGs DF 50
Preferred Application: Slitting of very thin synthetic and metal foils.

Advantages:

- Exchange of razor blades within seconds due to rotary magazine
- Low setup cost

Razor blade holders

Slit widths down to 3 mm can be readily achieved. For narrow slit widths our razor blade holders are also available in cassette design. Our approved crush cut knife holders PQAS / PQDS are available with razor blade adapter as an option.

Available Razor Blades:
- Tungsten carbide
- Solid ceramic
- Ceramic coated (Diamond Black Blade)

Advantages:

- Quick change of slit widths
- Simple handling

Individual solutions for razor blade cutting upon request!
<table>
<thead>
<tr>
<th>Material to be cut*</th>
<th>Application Recommendation</th>
<th>Shear Cut Knife Holders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium &lt; 500 µm</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Aluminium &gt; 500 µm</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Two-layer Aluminium</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Cable Bands &lt; 300 µm</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Lithography Bands &gt; 500 µm</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Synthetic foils &lt; 500 µm</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>PVC, PE, PP 500 - 1500 µm</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Paper &lt; 200 g/m²</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Paper 200-500 g/m²</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Paper 500-800 g/m²</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Paper &gt; 800 g/m²</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Adhesive Tapes / Labels</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Beverage Packaging</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Textiles</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Rubber / vulcanized, unvulcanized</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td>Nonwoven/Tissue, Hygiene Fleece, Glass Fleece</td>
<td>o</td>
<td>o</td>
</tr>
</tbody>
</table>

Legend:  
+ suitable  
• conditionally suitable  
- unsuitable  
o Knife holder design has to be determined

* Summary of different materials. Consult us regarding your specific material challenges.
<table>
<thead>
<tr>
<th>Shear Cut Knife Holders</th>
<th>Crush Cut Knife Holders</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSGm16</td>
<td>PSG5</td>
</tr>
<tr>
<td>+</td>
<td>+</td>
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<tr>
<td>-</td>
<td>+</td>
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<td>+</td>
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<tr>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

 mined by slitting tests at DIENES slitting laboratory.
<table>
<thead>
<tr>
<th></th>
<th>PSGm 19 DF</th>
<th>PSGm 25 DF</th>
<th>PSGs DF 50</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions, Weight</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>total height *¹</td>
<td>300 mm</td>
<td>335 mm</td>
<td>330 mm</td>
</tr>
<tr>
<td>total width *²</td>
<td>19 mm</td>
<td>25 mm</td>
<td>50 mm</td>
</tr>
<tr>
<td>total weight *³</td>
<td>2.4 kg</td>
<td>3.7 kg</td>
<td>6.1 kg</td>
</tr>
<tr>
<td><strong>Working Data</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>min. slit width</td>
<td>19 mm *⁴</td>
<td>25 mm *⁴</td>
<td>50 mm</td>
</tr>
<tr>
<td>vertical knife stroke</td>
<td>20 mm</td>
<td>30 mm</td>
<td>30 mm</td>
</tr>
<tr>
<td>non-adjustable stroke</td>
<td>10 mm</td>
<td>10 mm</td>
<td>10 mm</td>
</tr>
<tr>
<td>adjustable stroke</td>
<td>10 mm</td>
<td>20 mm</td>
<td>20 mm</td>
</tr>
<tr>
<td>horizontal knife stroke</td>
<td>2,5 mm</td>
<td>2,5 mm</td>
<td>2,5 mm</td>
</tr>
<tr>
<td>knife diameter</td>
<td>105/130 mm</td>
<td>130 mm</td>
<td>130/150/200 mm</td>
</tr>
<tr>
<td><strong>Application Range</strong> *⁵ max.</td>
<td>1,000 m/min</td>
<td>1,000 m/min</td>
<td>2,000 m/min</td>
</tr>
<tr>
<td>operating pressure vertical</td>
<td>3-6 bar</td>
<td>4,5-6 bar</td>
<td>4-6 bar</td>
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<tr>
<td>operating pressure axial</td>
<td>3-6 bar</td>
<td>4,5-6 bar</td>
<td>max. 3,5 bar</td>
</tr>
<tr>
<td>shear angle</td>
<td></td>
<td></td>
<td>from 0° to 1° in steps of 1°</td>
</tr>
<tr>
<td>knife head construction</td>
<td></td>
<td></td>
<td>right-hand or left-hand</td>
</tr>
<tr>
<td>holder mounting</td>
<td></td>
<td></td>
<td>optionally dove tail guidance, linear guidance, T-groove</td>
</tr>
</tbody>
</table>

*¹ Total height without air connection  
*² Width may vary depending on the options  
*³ Weight may vary depending on the options  
*⁴ Only with block by block operation  
*⁵ Depending on the material to be cut and knife diameter

You will find a sampling of the wide range of Dienes safety accessories and service tools on page 30. Please inquire for special designs!
<table>
<thead>
<tr>
<th>PSG DF 145</th>
<th>PSG DF 150 HS</th>
<th>PSGm 16</th>
<th>PSGs 50</th>
<th>PSG 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>475 mm</td>
<td>496 mm</td>
<td>280 mm</td>
<td>305 mm</td>
<td>372 mm</td>
</tr>
<tr>
<td>144 mm</td>
<td>148 mm</td>
<td>16 mm</td>
<td>18,5 mm</td>
<td>113 mm</td>
</tr>
<tr>
<td>16 kg</td>
<td>21 kg</td>
<td>2,1 kg</td>
<td>4,6 kg</td>
<td>8,9 kg</td>
</tr>
<tr>
<td>145 mm</td>
<td>150 mm</td>
<td>16 mm</td>
<td>50 mm</td>
<td>115 mm</td>
</tr>
<tr>
<td>50 mm</td>
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<td>10 mm</td>
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<td>40 mm</td>
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</tr>
<tr>
<td>6 mm</td>
<td>6 mm</td>
<td>1 mm</td>
<td>1,5-3 mm</td>
<td>3 mm</td>
</tr>
<tr>
<td>180/200/220 mm</td>
<td>200 mm</td>
<td>105 mm</td>
<td>130 mm</td>
<td>140/180 mm</td>
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<tr>
<td>2.600 m/min</td>
<td>3.500 m/min</td>
<td>800 m/min</td>
<td>1.000 m/min</td>
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<tr>
<td>4-6 bar</td>
<td>4-6 bar</td>
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<tr>
<td>4-6 bar</td>
<td>1-6 bar</td>
<td>5-6 bar</td>
<td>max. 6 bar</td>
<td>max. 6 bar</td>
</tr>
</tbody>
</table>

- from 0° to 1° in steps of 15’
- right-hand or left-hand
- optionally dove tail guidance, linear guidance, T-groove bar

*Subject to technical changes!*
<table>
<thead>
<tr>
<th>Crush Cut Knife Holders</th>
<th>PQAS/PQDS</th>
<th>PQD MC 3</th>
<th>PQA DF 19</th>
<th>PQA DF 50</th>
<th>PQG</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions, Weight</strong></td>
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<td></td>
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<tr>
<td>total height *¹</td>
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<td>235 mm</td>
<td>290 mm</td>
<td>383 mm</td>
<td>315 mm</td>
</tr>
<tr>
<td>total width *²</td>
<td>6-20 mm</td>
<td>20 mm</td>
<td>19 mm *⁴</td>
<td>49,5 mm</td>
<td>115 mm</td>
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<tr>
<td>total weight *³</td>
<td>1,5 kg</td>
<td>2 kg</td>
<td>2,4 kg</td>
<td>8,4 kg</td>
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<tr>
<td><strong>Working Data</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>min. slit width</td>
<td>ab 6 mm</td>
<td>20 mm</td>
<td>19 mm</td>
<td>50 mm</td>
<td>115 mm</td>
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<tr>
<td>vertical knife stroke</td>
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</tr>
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<td>non- adjustable stroke</td>
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<tr>
<td>adjustable stroke</td>
<td></td>
<td>10 mm</td>
<td>20 mm</td>
<td>30 mm</td>
<td></td>
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<tr>
<td>horizontal knife stroke</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>knife diameter</td>
<td>76,96/100 mm</td>
<td>76,96/100 mm</td>
<td>100 mm</td>
<td>130/150 mm</td>
<td>max. 150 mm</td>
</tr>
<tr>
<td><strong>Application Range</strong></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>operating pressure vertical</td>
<td>300/400 m/min</td>
<td>300/400 m/min</td>
<td>600 m/min</td>
<td>1.100 m/min</td>
<td>800 m/min</td>
</tr>
<tr>
<td>max. cutting force at 6 bar</td>
<td>240 N/540 N</td>
<td>1.620 N</td>
<td>240 N</td>
<td>1.200 N</td>
<td>900 N</td>
</tr>
<tr>
<td>shear angle</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>holder mounting</td>
<td>optionally dove tail guidance, linear guidance, T-groove bar or to customer specification</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*¹ Total height without air connection  
*² Width may vary depending on the options  
*³ Weight may vary depending on the options  
*⁴ Only with block by block operation  
*⁵ Depending on the material to be cut and knife diameter

You will find a sampling of the wide range of Diene's safety accessories and service tools on page 30.
<table>
<thead>
<tr>
<th>Holder Type</th>
<th>Cutting Force in Newton at an Air-Pressure of 4 bar</th>
<th>Cutting Speed in m/min.</th>
<th>Cutting Force in Newton at an Air-Pressure of 5 bar</th>
<th>Cutting Force in Newton at an Air-Pressure of 6 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>PQAS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 mm</td>
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</table>

*1 PQDS and PCD MC having a knife diameter of 100 mm, the maximum speed can be increased to 400 m/min (approx. value)
Safety Accessories and Service Tools
Pneumatic Control System / Accessories

Adapter alternatives
e.g.: for holder PSGs DF 50

Increased user convenience for all holders and dramatically reduced setup times due to linear rail guidance!
Dienes Services

Even the best knives must eventually be replaced. Dienes has made this operation faster and safer by its well-designed replacement system, with optimal protection from injuries.

The **Regrinding Service**, which operates the newest generation of CNC machines, is performed under the same strict quality criteria that you expect from the Dienes Group. In addition to seminars and in-house training sessions the regrinding service is an important component among the various services provided by Dienes.

**Knife Management Support** is not only provided through new recording, controlling and ordering systems but also through well-designed knife storage cabinets and transportation boxes.

**Kaizen Analysis** provides comparison data for Dienes evaluation. Tests made with special knife holders will lead to measurably improved slitting quality, handling, service life and operation safety.

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<table>
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<tr>
<th>Dienes B2B-Knife Management System</th>
<th>Dienes Kaizen Analysis</th>
<th>Dienes Regrinding Service</th>
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<tr>
<td>Inventory and status control</td>
<td>Planned/actual comparisons</td>
<td>Hotline (optional)</td>
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<td>OPTI-Tool toll calculation</td>
<td>Cutting Force</td>
<td>Pick-up</td>
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<td>Optimised knife requirements</td>
<td>Knife Overlap</td>
<td>Cleaning</td>
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<td>Internet Knife Display</td>
<td>Surface Quality</td>
<td>Precision Measurement</td>
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<td>Web Entrance/Cant Angle</td>
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<td>Knife Head Torsional Display/ Knife Head Bearing Play</td>
<td>(ADS) Anti-Dust Surface (optional)</td>
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<td>Paperless transactions</td>
<td>Analysis of Cutting Edge</td>
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<td>Cost Control</td>
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<td>Specifications, Test Reports (optional)</td>
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<td>Cost Reduction</td>
<td>Trouble Shooting</td>
<td>Shipping</td>
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</table>

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**Regrinding Service**

**On request 48-h-Service**

For information please contact us:

www.messerservice.de | +49 22 06 / 605 - 0

Please place your order with us or ask for your individual quotation.