DISKUS Double Face Grinding Machines
DDS - L Series
Through-feed grinding for LARGE QUANTITIES

Through-feed face grinding with a straight workpiece feeder is a technology developed for economically processing very large quantities of flat workpieces. The straight workpiece feeder enables a very high material removal rate and very fast cycle rates. This design supports the machining of workpieces up to 500 mm wide.
**DDS-L – DISKUS technology**

**COMPACT. EFFICIENT. ACCURATE.**

- Designed for very large quantities
- High cutting speeds for high material removal rate
- Post-process control by DISKUS IONIC18
- High machine rigidity
- High precision
- Short grinding time
- Grinding of unclamped parts, hence no deformation due to clamping forces

**AUTOMATION – key to HIGH PRODUCTIVITY**

DISKUS WERKE SCHLEIFTECHNIK’s double face grinding machines are noted for their tremendously fast cycle rates and, thus, their high capacity. In order to optimally utilise this potential, all DISKUS automation solutions are tailored to specific process needs and customer requirements. The DDS-L automation series ranges from simple stacking magazines to fully automatic loading by robotic arms.

---

<table>
<thead>
<tr>
<th>Machine</th>
<th>DDS 600 XL</th>
<th>DDS 900 PL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grinding wheel diameter, mm</td>
<td>600</td>
<td>900</td>
</tr>
<tr>
<td>Cutting speed, m/s</td>
<td>32</td>
<td>32</td>
</tr>
<tr>
<td>Grinding width, mm</td>
<td>15 - 210</td>
<td>30 - 500</td>
</tr>
<tr>
<td>Grinding height, mm</td>
<td>0,8 - 80</td>
<td>2 - 80</td>
</tr>
<tr>
<td>Max. driving power per spindle, kW</td>
<td>67</td>
<td>71</td>
</tr>
<tr>
<td>Approx. gross weight, kg</td>
<td>11.000</td>
<td>21.000</td>
</tr>
<tr>
<td>Footprint, mm</td>
<td>L 2.600</td>
<td>4.400</td>
</tr>
<tr>
<td></td>
<td>W 3.300</td>
<td>4.700</td>
</tr>
<tr>
<td></td>
<td>H 3.000</td>
<td>3.600</td>
</tr>
</tbody>
</table>

---

Grinding chamber of DDS 600XL

Straight feeder system

IONIC18 process control unit

Stacking magazine

Vibrating hopper and sorter

Vibrating conveyor

Manual loading
Over 100 YEARS of face grinding EXPERIENCE – from spacer rings to valve plates

Diamond & corundum - face grinding wheels by NAXOS-DISKUS – from highly efficient to highly accurate.

- Anti-friction bearing rings
- Stampings
- Cams
- Piston rings
- Glass, ceramics, brass materials
- Precision plate blanks (watchmaking)

Grinding tools of DDS-L machines are subject to varying precision, hardness and economic efficiency requirements depending on the part to be face ground.

DISKUS teams with NAXOS-DISKUS Schleifmittelwerke to design the grinding tool perfectly suited for any process according to customer preferences.

DISKUS IONIC18 – Processes under control for 100% RELIABILITY

- Process monitoring for consistent machining results
- In-process adjustment of the grinding work in progress
- Enhanced process reliability

Reliable processes and a consistent machining quality are a must where grinding aims to implement a zero defects strategy. This is exactly what DISKUS WERKE SCHLEIFTECHNIK developed the IONIC18 process control computer. It communicates with the machine control unit to detect non-conforming workpiece tolerances caused by grinding wheel wear or other reasons and readjusts the distance between the grinding wheels without stopping the process, thus ensuring consistent machining results.
Mitglieder der DVS TECHNOLOGY GROUP
Members of DVS TECHNOLOGY GROUP

DVS MACHINE TOOLS & AUTOMATION

BUDERUS Schleiftechnik | www.buderus-schleiftechnik.de
Innenrundschleifen – Außenrundschleifen – Gewindeschleifen – Hartdrehen
I.D. grinding – O.D. grinding – Thread grinding – Hard turning

DISKUS WERKE Schleiftechnik | www.diskus-werke.de
Planseiten-Schleifen – Doppel-Planseiten-Schleifen – Sonderbearbeitung
Face grinding – Double face grinding – Special machining

PITTLER | www.pittler.de
Vertikal-Drehbearbeitungszentren & Pick-up-Systeme – Verzahnen in der Komplettbearbeitung
Vertical turning center & Pick-up systems – Gear cutting for complete machining

PRÄWEMA | www.praewema.de
Verzahnungshonen/-schleifen – Verzahnungsfräsen – Anspitz-/Hinterlegungsfräsen
Gear honing – Gear grinding – Hobbing/Fly-cutting – Chamfering

WMS Werkzeugmaschinenbau Sinsheim | www.wms-sinsheim.de
Service-Dienstleistungen – Generalsüberholungen – Reparatur von Baugruppen
Maintenance – Machine Retrofit – Repairs

WMZ Werkzeugmaschinenbau Ziegenhain | www.wmz-gmbh.de
Dreh- & Kombinationsbearbeitung wellenförmiger Bauteile – Motorspindeln
Turning & Combined machining of shafts – Motor spindles

DVS TOOLS & COMPONENTS

DVS Tooling | www.dvs-tooling.de
Werkzeugsolutions für das PRÄWEMA Leistungshonen
Tooling solutions for PRÄWEMA Power Honing

NAXOS-DISKUS | www.naxos-diskus.de
Konventionelle Schleifwerkzeuge – CBN & Diamantwerkzeuge
Conventional grinding tools – CBN & Diamond tools

DVS PRODUCTION

DVS Technology & DVS Production | www.dvs-technology.de
DVS Technologien in der Serienfertigung für PKW-Komponenten
DVS Technologies in mass production for passenger car components

FRÖHLICH CNC Production | www.cnc-froehlich.de
DVS Technologien in der Serienfertigung für Nutzfahrzeug-Komponenten
DVS Technologies in mass production for commercial vehicle components

DVS INTERNATIONAL SALES & SERVICE

DVS Technology America, Inc. | www.dvs-technology.com
DVS Sales & Service in USA, Canada & Mexico

DVS Technology (Shenyang) Co., Ltd. | www.dvs-technology.com
DVS Sales & Service in China