Fully Automated Rubber Roll Grinding Machines
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“Total Solutions”, with ‘user centred design’ concept maximising operational and commercial value. The future of rubber roll grinding is here; NOW

The RGD series of fully automated rubber roll grinding machines provides a complete range of CNC controlled machines for the grinding and grooving of medium to large rubber rolls required for a wide range of applications.

The ‘user centred design’ concept has been developed around a simplified user friendly CNC interface to enable easy set up for fully automatic machining of rolls.

A range of optional extras complete the package to maximize productivity and production management. Set up is quick and easy for simple to complex roll profiles and grooving patterns, eliminating the need for highly skilled machinists.
**Typical machine arrangement**

**RGD600 x 3000**  
Maximum Diameter 600mm, Maximum Length 3000mm  
X1 = Large diameter grinding head  
X2 = High speed grooving wheel (A-Axis)

**RGD600 x 4000**  
Maximum Diameter 600mm, Maximum Length 4000mm  
X1 = Large diameter grinding head  
X2 = High speed grooving wheel (B-Axis)

**RG1250 x 3000**  
Maximum Diameter 1250mm, Maximum Length 3000mm  
X1 = Large diameter grinding head  
X2 = Grinding Belt

**Roll Profiles (grinding)**

- [ ] Parallel  
- [ ] Camber  
- [ ] Taper  
- [ ] Step Taper  
- [ ] Multi Camber  
- [ ] Chamfer (end of roll facing)  
- [ ] Radial Grooving

**Roll Profiles (grooving)**

- [ ] Linear Groove  
- [ ] Diamond pattern  
- [ ] Chevron  
- [ ] Spreader
Features, Advantages & Benefits

**Features**
Heavily ribbed stress relieved fabrication/ Linear guideways

**Advantages**
Robust low friction stable grinding platform.

**Benefits**
Long lasting stable platform giving consistent accurate results.

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**Features**
Cast Iron Headstock housing a precision spindle with 80mm internal bore. 
Powered movement of the tailstock with automatic hydraulic clamps. Hydraulically powered quill.

**Advantages**
Accurate reliable rotation of the Roll. 
Easy loading and unloading of the component.

**Benefits**
Long lasting stable platform giving consistent accurate results. Faster production rates.

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**Features**
Fully enclosed/interlocked guard with dust extraction.

**Advantages**
Meets H&S requirements. Protects the operator and working environment. Keeps the area dust free.

**Benefits**
Clean safe working area. Compliant with H&S legislation.

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**Features**
Dual fully programmable X-Axes.

**Advantages**
Enables fast interchange of a variety of grinding heads.

**Benefits**
Flexible manufacture on a single machine.
Features, Advantages & Benefits

**Features**
- A combination of grinding heads to select from.

**Advantages**
- Multi purpose machine.

**Benefits**
- Flexible manufacture on a single machine.

Large Diameter Grinding Wheel

Auto indexing Grooving Wheel

**Features**
- Graphical User Interface.

**Advantages**
- Instant recognition of the roll profile.
- Easy to understand.

**Benefits**
- Simple visual display that’s easy to understand and enter roll data.
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<th>Features</th>
<th>Advantages</th>
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<td>Manual controls.</td>
<td>Allows the operator to easily move the machine around for test cuts etc.</td>
<td>Saves time.</td>
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