Falex Dry Sand/Rubber Wheel Apparatus offers the most accurate testing of abrasion resistance on a variety of materials. The Falex Dry Sand/Rubber Wheel Apparatus has been involved with the ASTM Standardization Process for over 30 years. In fact, Falex is listed as the sole source of supply in ASTM G65 and is the only commercially available apparatus that has participated in Inter-Laboratory Studies as support for the precision statements. The rugged and reliable Falex Dry Sand Rubber Wheel Apparatus can provide years of service. The Wet Sand Option includes the slurry chamber front piece and o-ring. Optional Test Kits are available for either ASTM B611 or G105 testing. The Falex apparatus’ versatility has enabled it to successfully evaluate, and rank, a wide variety of materials, including weldment overlays, cerments and polymers, in abrasive conditions. Additionally, the apparatus can be used for custom testing tailored to specific abrasion conditions and materials.

**Applications For:**
- Coatings
- Construction/Farm Equipment
- Industrial Equipment
- Paints
- Plastics
- Slurry Abrasion

**Used in Standard Test Methods**

<table>
<thead>
<tr>
<th>Standard Test Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAE Recommended Practice</td>
<td>Resistance to Abrasive Wear Using Rubber Wheel Abrasion Machine</td>
</tr>
</tbody>
</table>

**Suitable for Testing**
- Ceramics
- Coatings
- Composite materials
- Glass
- Metals
- Plastics

**010-001-001  Dry Sand/Rubber Wheel Apparatus with Wet Sand Option**

- 9” Rubber Wheel (2) (ASTM G65): 824.7 fpm max.
- 2.5 to 1 Load Lever System tests loads up to 75 lb. max (30 lbs. Bale Rod Weights)
- Specimen Holder
- Variable Speed Control Motor 350 RPM max
- Test Cycle Counter & Cutoff
- Exhaust Outlet
- Wheel Dressing Tool
- Slurry Chamber
- Stirring Paddles

**The Only Standardized Unit on the Market!**
DRY SAND/RUBBER WHEEL APPARATUS

Consistent Results, Every time.

**Speed and Velocity**
- Variable speed control, 350 rpm max.
- 6.65” steel wheel (ASTM B611): 609.3 fpm max.
- 7” rubber wheel (SAE or ASTM G105): 641.4 fpm max.
- 9” rubber wheel (ASTM G65): 824.7 fpm max.

**Load**
- 2.5 to 1 lever system with dead weights. Bale rod weights supplied. Test loads to 75 lbs. max.

**Test Conditions**
- Standard dry sand test configuration. Optional test kits for wet sand and other slurries.

**Test Duration & Revolution Counter**
- Timer control system for automatic test shutoff and cycle counter with built-in automatic cutoff (standard).

**Utility Requirements:**
- 220 VAC, Single Phase, 50/60 Hz

---

**Weights and Dimensions:**

**Bench Top**
- Space (L x W x H): 60 x 24 x 40
- Estimated Weight: 615 lbs

**Shipping**
- Dimensions (L x W x H): 42” x 36” x 42” [615 lbs]
- 31” x 31” x 36” [150 lbs]

*Shipping dimensions and weights are typical and subject to change*

---

**Test Kits**
- **ASTM B611** 010-560-001 6.65” Steel Wheel and Weights
- **ASTM G105** 010-560-002 7” Rubber Wheel 50, 60, 70 Shore A

**Test Wheels**
- **ASTM G65** 010-501-001 9” Rubber Wheel 58, 62 Shore A
- **ASTM G105** 010-501-012 7” Rubber Wheel 58, 62 Shore A
- **ASTM G105** 010-501-013 7” Rubber Wheel 68, 72 Shore A
- **ASTM G65** 010-501-011 7” Rubber Wheel 48, 52 Shore A
- **ASTM B611** 010-501-005 6.65” Steel Wheel

**Test Materials and Supplies**
- **ASTM G65** 010-500-001 Reference Test Specimen AISI D-2
- **Tool Steel, 59 to 60 HRC**
- **ASTM G65** 010-500-003 Reference Test Specimen AISI H-13
- **Tool Steel, 47 to 48 HRC**
- **ASTM G65** 010-500-070 Test Sand, AFS 50/70 (50 lb. bag)
- **ASTM B611** 100-599-001 Alumina Oxide, 30 grit (50 lb./bag)

**Consumables & Accessories**
- **010-105-031** Replacement Sand Nozzle, calibrated
- (300 to 400 g/min sand flow)
- **010-041-002** Wheel Dressing Tool
- **010-105-003** Paddle Assemblies

---

Distributed by: