

## WIRA Hexapod Tumbler Carpet Tester

**WIRA**  
INSTRUMENTATION

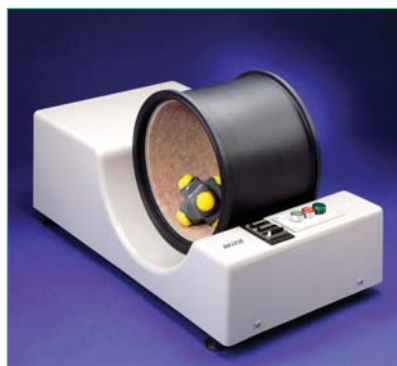
Order Code **HEX:001**

- Widely used in the evaluation of the appearance retention of carpets
- Can test with underlay underneath the carpet
- Provides a rapid method of test - completion within one working day

The WIRA Hexapod Tumbler Tester is a popular apparatus used in the evaluation of the appearance retention of carpets.

### Method

Specimens of carpet are fastened to a flexible backing sheet with double-sided adhesive tape. This assembly is fitted on the inside surface of the drum and can easily be removed at any stage for inspection of the specimens under test. If required, an underlay may be fitted beneath the carpet for direct comparison with normal use.



**Conforms to:**  
**ISO 10361:2000 (BS)**  
**Wools of New Zealand test methods 247 & 251\***  
**IWS test methods 247 & 251\***  
**ISO 9405:2001\***  
**BS EN 1471:1997\***  
**\* Assessment**

*Dimensions:*  
*Width: 430mm*  
*Depth: 780mm*  
*Height: 400mm*  
*Power Consumption: 375W*

- Consumables:**
- Replacement polyurethane stud feet [6].  
Order code **HEX:SFT**
  - Drum liner.  
Order code-**HEX:DLN**

The drive to the drum incorporates a reversing mechanism to give more realistic pile disturbance, and the required number of revolutions may be pre-set on a revolution counter. The 3.8kg tumbler has six polyurethane stud feet.

The carpet specimens are treated for 2,000 revolutions, which takes approximately one hour. They are then taken out of the drum on their backing sheet and cleaned using an upright vacuum cleaner simulating practical usage. The specimens are replaced and the treatment repeated, nor-

mally six times, giving a total of 12,000 revolutions.

After the final vacuum cleaning, the change in appearance is assessed against an appropriate set of ISO reference scales.

The method of test meets the requirements of:

**ISO9405, BS EN 1471**

Assessment of appearance change including details of scales (ISO 9405).

**BS ISO 10361**

Production of changes in appearance by means of Vettermann Drum and Hexapod Tumbler Tester.

**Hexapod – Assessment of change in appearance**

*Two methods of assessment are described in ISO9405:2001*

**Method A describes a method using the following apparatus:**

- |  |                                  |
|--|----------------------------------|
| <i>Illumination Device with rotary viewing table</i> | <i>Order Code <b>HEX:LM1</b></i> |
| <i>Large Grey Scales</i>                             | <i>Order Code <b>HEX:GSC</b></i> |
| <i>Digital Image Reference Scale</i>                 | <i>Order Code <b>HEX:DIR</b></i> |

*BS EN 1471:1997 describes a similar method using standard fatigued specimens (reference scales)*

**Method B describes a method using the following apparatus:**

- |                                       |                                  |
|---------------------------------------|----------------------------------|
| <i>Assessment Masks</i>               | <i>Order Code <b>HEX:MSK</b></i> |
| <i>Illumination Device</i>            | <i>Order Code <b>HEX:LM2</b></i> |
| <i>Digital Image Reference Scales</i> | <i>Order Code <b>HEX:DIR</b></i> |