

Pellet durability

Many animal feed compounders test the durability of their pelleted rations. This is because it is important to strike a balance between the pellets being too hard and thus difficult to eat, or too weak, in which case the feed became dusty and much was wasted. Pelleting is also an energy hungry process. Testing allows control of energy costs.

Borregaard's John Payne, who developed the original Holmen pellet tester more than twenty years ago and TekPro's Technical Director, Dave Catchpole, together developed the New Holmen range of machines. Then called the 'Lignotester', as they were marketed almost exclusively to those using lignin based pellet binders. The New Holmen range does however meet the needs of all pellet durability testing.



Pellet testing

The New Holmen tester uses a 100g sample with a test cycle of two minutes or less. Using blown air to degrade the pellets being tested simulates what happens when pellets are blown from lorry to store and from store to trough, or augered to furnace.

Pellet durability index = $\frac{\text{Weight of pellets after testing}}{\text{Weight of pellets before testing (100g)}}$



New Holmen pellet durability tester

The TekPro New Holmen range of testers offer clear advantages over earlier methods. For example they are:

- Smaller - Occupies less lab space
- Faster - Test cycle of just 30 seconds
- Simpler - Dust and fines are blown out, you weigh what's left

Applications

The TekPro New Holmen pellet testers can measure the durability of any pelleted material, for example:

- Animal feed
- Wood pellets
- Oilseed residues
- Horticultural products



Our Values

The company has a dynamic philosophy based on a heritage of quality and reliability and aims to:

- **Innovate** – develop and build systems that satisfy the present and future needs of the industry
- **Listen** – give customers excellent service through a network of carefully selected distributors
- **Adapt** – to the ever changing pressures of consumer demand
- **Care** – for those on whom success depends, suppliers, staff, customers
- **Add value** – develop products that help you improve quality and profitability.

innovation

simplicity

focus

The New Holmen range of pellet durability testers



Holmen pellet testers are manufactured and distributed under licence to Borregaard UK Ltd

TEKPRO
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TEKPRO **HOLMEN**
Developing, making and marketing technology

TekPro New Holmen portable

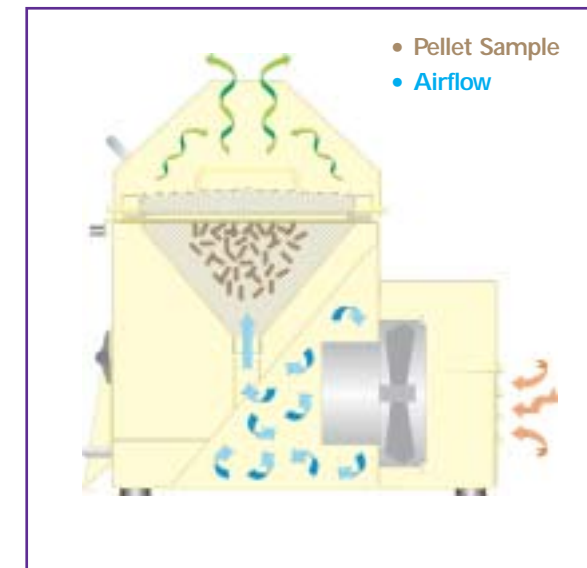
The TekPro range of New Holmen pellet testers are a quick and convenient way of monitoring pellet durability. Measuring pellet durability enables expensive binding agents to be included at the optimum rate and energy costs to be minimised. You can also guarantee customer satisfaction, providing consistently durable products, whatever their make-up.

The New Holmen portable is versatile and affordable, designed for bench top testing in your laboratory. It can be easily moved from site to site if required. The sample cascades in an air stream, which causes the pellets to collide with each other and the perforated hard surfaces within the test chamber. Weigh the pellets after testing and you have the pellet durability index.

Height - 450mm (closed) 580mm (open)
 Length - 300mm
 Width - 300mm
 Weight - 18.5kg

Benefits

- **Portable** - Can be easily moved between testing sites
- **Clean** - Virtually no dust escapes in operation
- **Fast** - Second test cycles 30, 60 and 90
- **Economical** - Sample size of just 100g
- **Simple** - Pellet durability index is the weight of pellets after testing
- **Voltage stabiliser** - ensures consistent test results
- **Air pressure** - automatically adjusted



TekPro New Holmen automatic

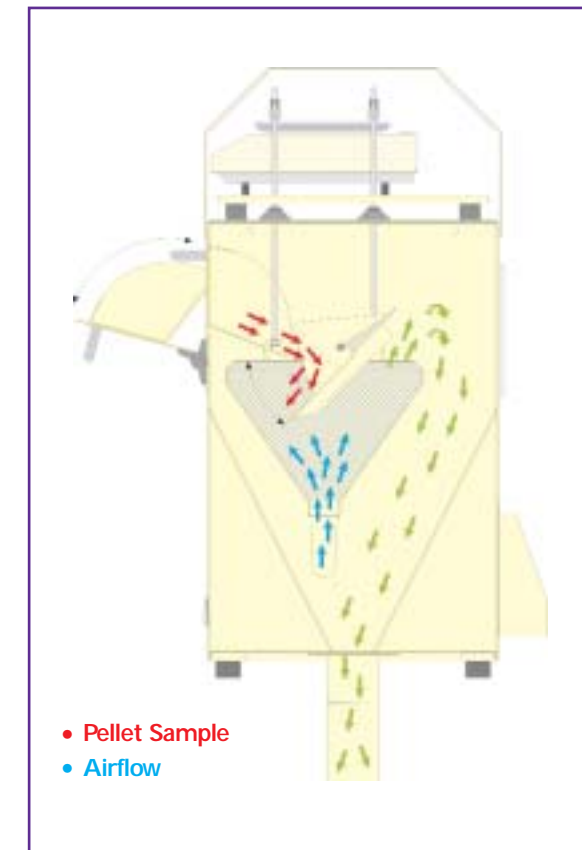
The New Holmen automatic pellet durability tester is designed for busy mill laboratories where frequent batch tests are the norm. This machine, as its name suggests, once set up, will calculate the 'pellet durability index' without user intervention.

Operating on the same principle as the manual machine, the automatic contains an integral weigher. After the timed test cycle, the sample is automatically weighed and the pellet durability Index displayed on an LCD readout. An optional printer can make operation even simpler.

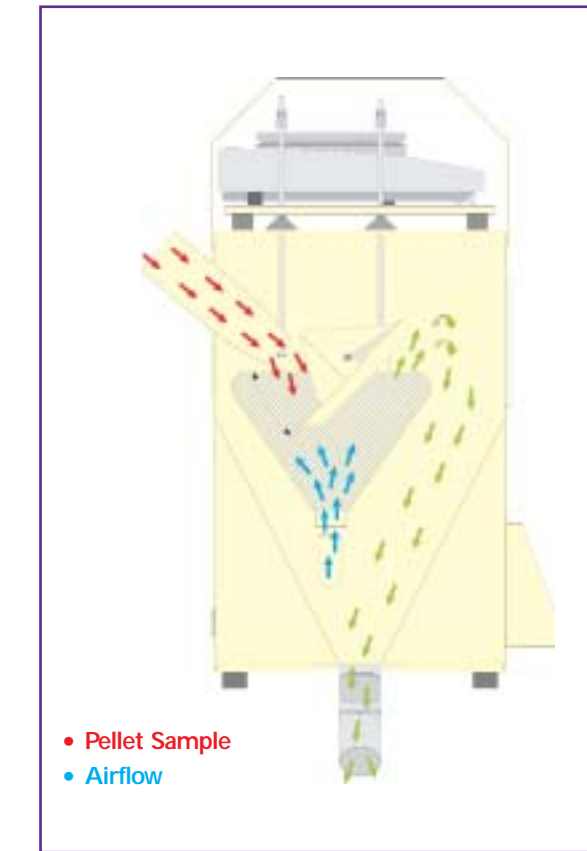
Height - 7250mm
 Length - 360mm
 Width - 440mm
 Weight - 36kg

Benefits

- **Free standing** - Does not take up valuable bench space
- **Automatic weighing** - Once the sample has been added, the pellet durability Index is determined for you
- **LCD display** - Shows the test result
- **Optional printer** - Provides a record of test results
- **Simple** - Pellet durability Index is the weight of pellets after test
- **Voltage stabiliser** - ensures consistent test results
- **Air pressure** - automatically adjusted



TekPro New Holmen on-line



This is arguably the most sophisticated pellet durability tester available today. The machine provides fully automated sampling when installed in-plant, close to the pelleting die. The on-line machine automatically collects, cools, weighs, tests then re-weighs pellet samples. Pellet durability Index values can be fed every four minutes to the mill control room, enabling optimum binder dosage and a tight control on the quality of long product runs. Alternatively the tester can be connected straight to the pelleting operator. The machine returns the test sample to the product flow.

Height - 7250mm
 Length - 360mm
 Width - 440mm
 Weight - 36kg

Benefits

- **Fully automatic** - Can be fitted close to the pelleting die
- **Programmable** - Controlling the pelleting process
- **Low waste** - Material returned to product flow after sampling
- **Low maintenance** - Efficient and reliable
- **Voltage stabiliser** - ensures consistent test results
- **Air pressure** - automatically adjusted