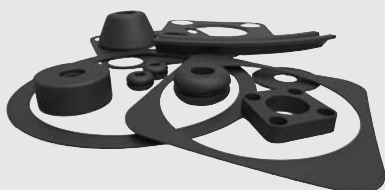


# VibraCool Spiral Cooling Conveyors

Space-saving solutions for rubber cooling and separation



...a lifetime of reliability and support





### Spiral Cooling Conveyor

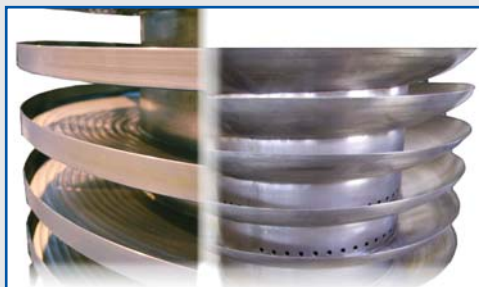
The Barwell VibraCool is a space and time-saving spiral cooling conveyor that has been specifically developed for the effective cooling, separation and drying of hot rubber parts produced on a Barwell preformer or extruder.

- A versatile solution that is suitable for most types of hot rubber blanks, preforms, pellets and extrusions
- A technologically advanced and quality enhancing method of ensuring the effective cooling, separation and drying of rubber products without interrupting the production line
- An easy to operate system requiring minimal user training and maintenance
- A compact and ongoing cost-cutting solution which saves factory space and dramatically reduces drying and cooling time compared to traditional conveyor methods
- Safe, reliable and durable - made out of stainless steel to prevent corrosion

### HOW DOES THE VIBRACOOL WORK?

Hot rubber parts feed into the VibraCool (which acts as a spiral elevator) enabling rubber parts to travel over 40m in distance – upwards rather than in a straight line – using perpetual vibratory motion.

The cooling process can be enhanced by the spraying of water or the blasting of air. The rubber parts then leave via a top exit chute into storage containers or to a subsequent production process.



### APPLICATIONS

- Small, medium and large solid blanks and preforms
- Pellets
- Strip extrusions
- Cord extrusions

### barwell VibraCool Spiral cooling conveyors



## BENEFITS

### Improves product quality and reduces rejects

Perpetual vibrational motion prevents parts from sticking together, helping to enhance product quality and significantly reduce rejects.

Risk is also minimised through targeted spraying of water onto the hot rubber throughout the cycle to aid the cooling process. The use of air jets can also be used to reduce the surface temperature of the rubber and increase drying speed.

When water cannot be used, a chiller unit is available to blow very cold air onto the rubber parts for rapid and effective cooling.

### Saves factory space and maximises production

A compact design means that hot rubber parts are transported over a distance of 40m in only a 1m<sup>2</sup> (approx.) footprint saving valuable factory floor space.

Its features speed up the production process, as drying and cooling time are significantly reduced compared to other conveyor systems.

### Ease of operation and reduced downtime

The simple design provides easy installation, operation and maintenance. Its robust construction and simplicity keep potential downtime to a minimum.



## OPTIONS

### Curved VibraCool

Ideal for most general rubber applications including small to medium size solid preforms, pellets and strips.

It cools using water and air. A variable speed controller allows larger items to travel at reduced speed for extra cooling.

Not suitable for small thin preforms as they can stick to the smooth internal flight surface (use the Flat Corrugated VibraCool instead). It does not facilitate chilled air cooling.

### Bowl VibraCool

The Bowl VibraCool is supplied with an extra large capacity fluid reservoir that assists in the cooling and separation of larger preforms e.g. shoe soles, engine mounts and others that need additional cooling. It can also be used for most general applications.

Mounted to a robust wheeled frame making it easy to transport in the factory.

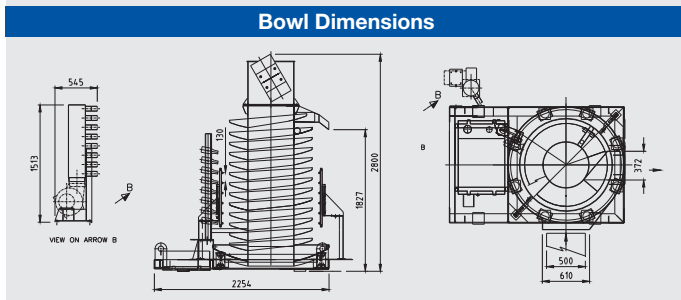
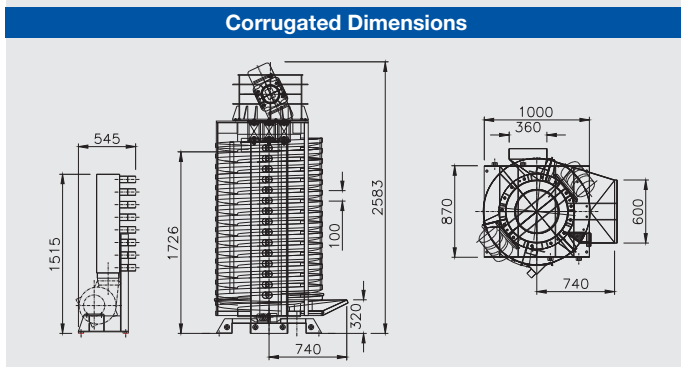
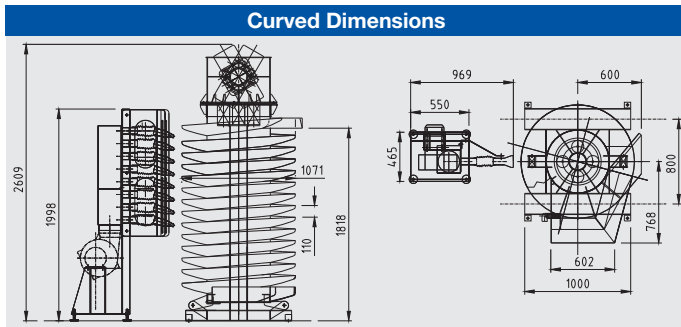
### Flat (Corrugated) VibraCool

This option is designed with flat corrugated flights so that the amount of fusion between small pellets or blanks and the surface is significantly reduced to avoid rubber to flight surface sticking.

It is recommended specifically for 'O' ring production but is also effective for small to medium size solids, pellets and strip or cord extrusion. Also suitable for chilled air cooling as it is surrounded by a polycarbonate cover. A variable speed controller facilitates the slowing of the cooling process for larger items.



### Technical Data



### ENHANCED SAFETY

Health and safety is a primary concern for those responsible for machine maintenance and operator safety.

Barwell machines are manufactured with safety in mind and are supplied with a number of features to ensure safe operation.

Barwell machines are compliant with CE regulations.



### SUPPORT

Barwell is committed to providing a lifetime of reliability and support through superior machine quality and expert service.

Many years of experience means we understand rubber production, allowing us to help customers to get the best out of their machines.

- Technical assistance
- Commissioning and installation
- Preventative maintenance and emergency repair
- Supply of genuine Barwell spares and consumables to ensure optimum performance

**barwellSupport**  
Advice | Spares | Service

### Machine Information

Machine Type	Height of Inlet	Mean Distance Travel	Flight Width	Flight Pitch	Motor Size	Vibration Speeds	Air Cooling Jets
Curved	320 mm	36.6 mm	233 mm	110 mm	2 x 1100 W	30-50 Hz	Yes
Corrugated (Flat)	320 mm	41 mm	205 mm	100 mm	2 x 1100 W	30-50 Hz	Yes
Bowl	320 mm	40 mm	265 mm	130 mm	2 x 1100 W	30-50 Hz	Yes



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