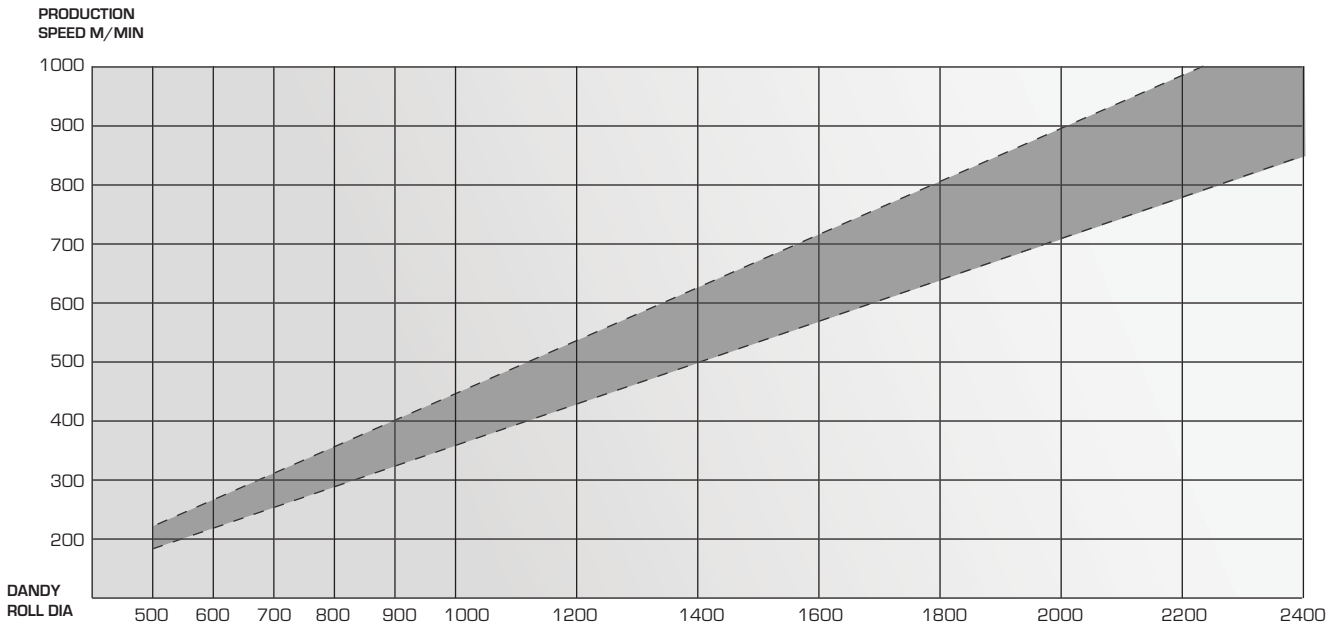
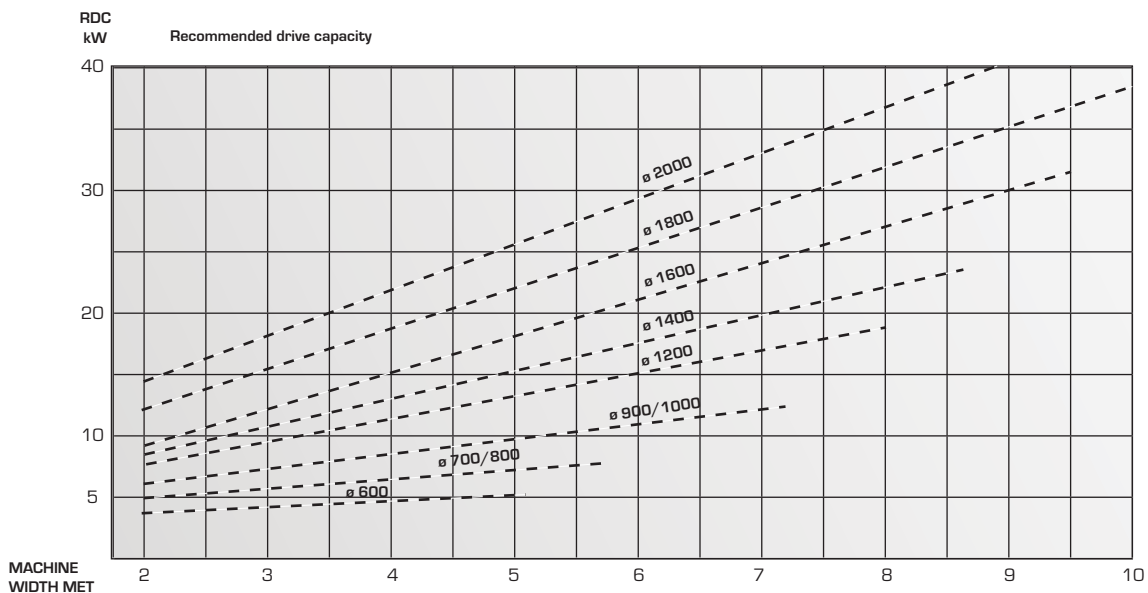


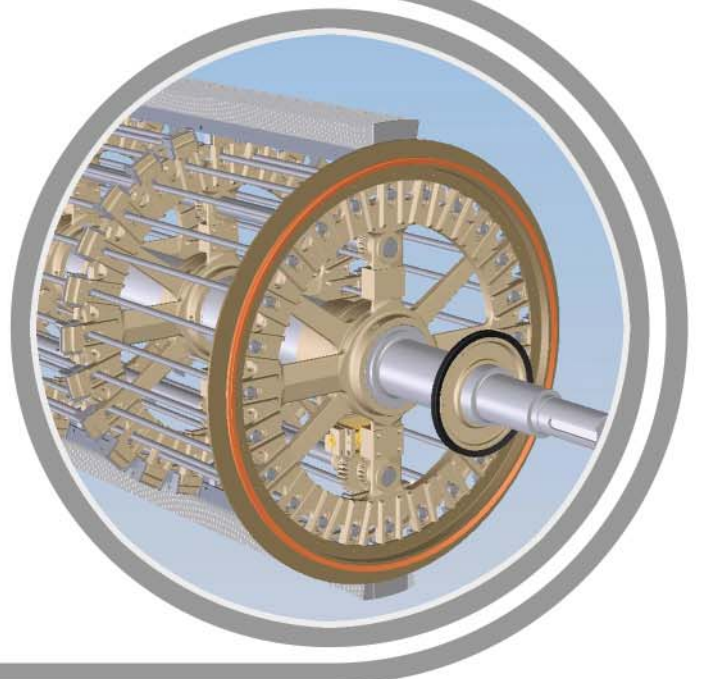
Technical Data



The diagram shows the relationship between machine speed and dandy roll diameter. The diameter of the dandy roll should increase with increasing machine speed, partly to suppress water eruption and partly to keep the speed of rotation of the dandy roll at a suitable level.



For the best possible effect, the dandy roll should have a separate drive and should run at a slightly faster speed than the wire. Recommended powers at different machine widths and dandy roll diameters are given here.



Woollard and Henry Ltd

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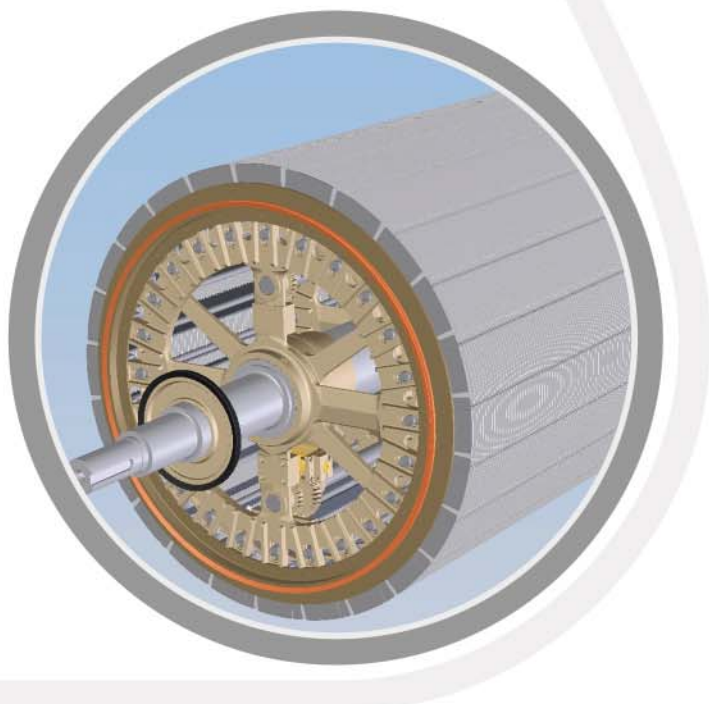
Company Profile

Woollard & Henry Ltd. is employee owned company located in a part of Scotland with a long history in paper manufacturing. In fact, two key words encompass our business philosophy: TRADITION AND INNOVATION.

We have been manufacturing dandy rolls and ancillary equipment for the paper & board industry since 1873.

Our bespoke products and customer service are renowned throughout the world for their outstanding quality and reliability, achieved thanks to our wealth of experience and skill.

Our extensive product range includes wove and laid dandy rolls, watermarks, expanding cylinder moulds and unique innovative solutions like dandy carousel systems and variable slot vacuum boxes.



Small investment with big advantages



Keeping the production costs of paper as low as possible while simultaneously maximising revenues is a must for every papermaker today. This profitability chase involves improving paper machines to obtain higher production capacities, higher machine speed and better paper quality in order to be able to survive the intensifying competition between producers. No paper grade is held in such low esteem today that it doesn't deserve to be improved. Frequently, the most economical means to achieve this quality improvement today is to install a dandy roll system. This is a relatively inexpensive investment compared with other forms of rebuilding.

The positive effect the dandy roll has on the forming and consolidation of the paper results in improved quality. A paper that has been produced with dandy roll lints less and possesses better properties for printing, sizing and laminating.

In order to provide maximum benefit, the installed dandy roll system must naturally function properly and reliably. In cooperation with the paper industry, Woollard & Henry has developed a completely modern dandy roll systems that is now in operation on paper machines all over the world. Our dandy rolls are installed for numerous different paper grades: from fluting and liner products to various kinds of board, from fine paper with watermarks to writing paper with a Verge laid, from cigarette paper to label paper, from base paper for coating to wallpaper. The list is virtually endless.





Why choose our dandy rolls?

- Helical rolls in phosphor bronze or stainless steel, diameter from 330mm to 1800mm up to 7.5 meters in length.
- Punched rolls from a minimum diameter of 150mm.
- Sleeve rolls, featuring cover stretch rings and reusable watermarked covers, especially suited to small tonnage orders.
- Wove covers in phosphor bronze and stainless steel in a wide range on mesh sizes, with straight or diagonal seams.
- Bespoke chain and plate laid rolls in a variety of metals.

Expanding Cylinder

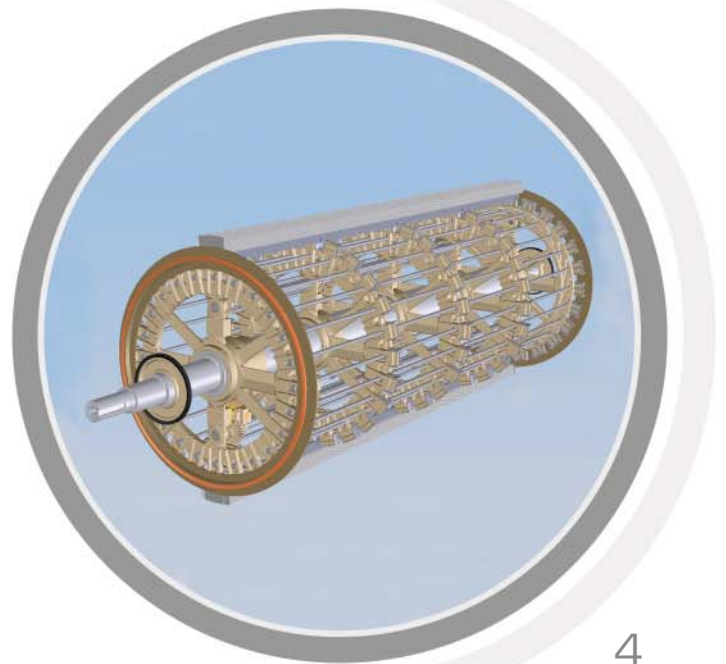
Woollard & Henry Ltd. Design and manufacture both expanding cylinder moulds and fixed cylinder moulds. These moulds are used to make security papers, fine papers, special industrial papers and board and they are in service in paper mills world-wide.

The Woollard & Henry Ltd. expanding cylinder moulds offer circumferential grids or lateral grid systems to support the mould cover. The grids are interchangeable and either system can be used on the same mould body.

The fixed moulds are designed in a range of styles to suit our customers' specification. For the manufacture of fine papers a mould body can incorporate the excellent dewatering characteristics.

Expanding cylinder mould features:

A wide expansion range, 150mm on diameter per mould body.
Easy removal of top grids for cleaning inside the mould.



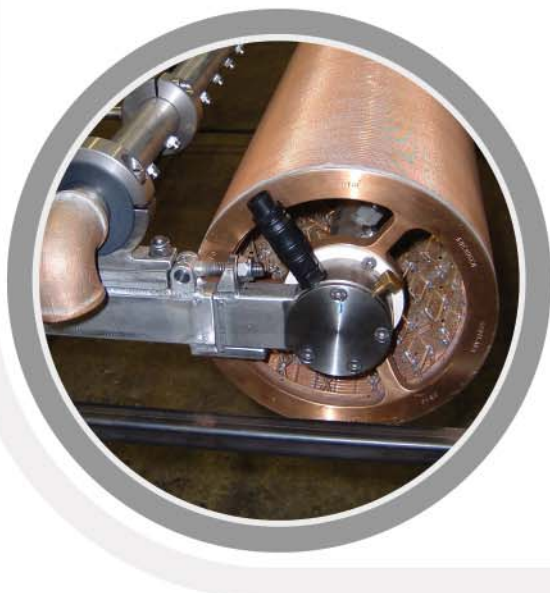


The Driven Wading Roll System

Woollard & Henry Ltd. are the only company to produce driven wading roll system, which also incorporates internal cleaning system.

The wading roll is driven, eliminating drag. This will improve the sheet formation, watermark clarity and reduce the standing wave. Machine speed can therefore be increased and mould cover life extended.

Both internal and external freshwater showers will help keep the wading roll clean during operation.



Watermarks



We design:

- Watermarks as a sign of distinction, for branding purposes and as a built in security feature for the individual, large corporation or government agency.
- Embossed watermarks for multi-toned images, or electrotype for crisp light images to suit individual applications.

Special Features

WATERMARKS can be cut to register, slit to register, cut ahead or all over

COVER MESH is selected to ensure optimum drainage characteristics

UNDER COVER SUPPORT guarantees sharper clarity throughout the life of the cover by preventing it from flattening under machine conditions

Our watermarks have been used to commemorate state occasions and royal weddings – we believe that their quality and reliability makes them the best on offer.

