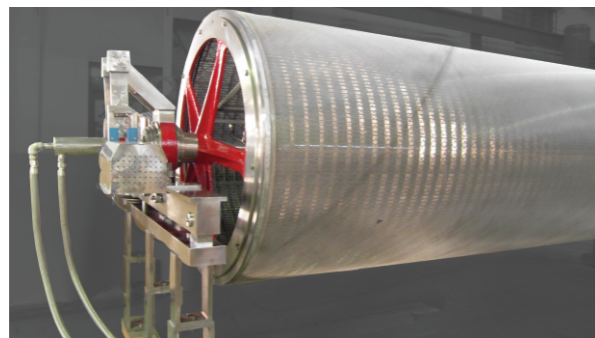


## ■ ● MILESTONES AND INNOVATIONS

### SEVERAL FIRSTS

- First in the country to design, build and supply dandy rolls for producing MICR cheque papers
- First in the country to manufacture and supply a centrally driven dandy roll system with double side flanges and complete internal cleaning system
- First in the country to design, build and supply a sophisticated bracket assembly to accommodate different diameters and widths of dandy rolls on the same bracket
- First in the country to design, build and supply dandy rolls with extensible type end castings for mounting of spare dandy roll covers
- First in the country to manufacture and supply a SS Plate Laid dandy roll up to 1000 mm diameter and an SS plain wove dandy roll up to 7mts wide
- First in the country to design, build and supply a geared drive system for open ended dandy rolls. The gears are made from 100% nylon
- First in the country to design, manufacture and supply a shadow marked dandy roll for bank cheque paper
- First in the country to design, build and supply a single set of steam and water showers to be used on the bracket for two different diameters of dandy rolls
- First in the country to design, build and supply a fiber glass save-all tray

More new products are on the anvil and will be presented to the industry shortly after satisfactory tests.



## DANDY ROLLS INDIA PRIVATE LIMITED

In collaboration with Woollard and Henry Limited, Scotland (U.K.)



A-179, 4<sup>TH</sup> CROSS, 1<sup>ST</sup> STAGE, PEENYA INDUSTRIAL ESTATE,  
PEENYA, BANGALORE - 560058, INDIA.

Tel: +91-80-28394381 / +91-80-28370992

Fax: +91-80-28398112

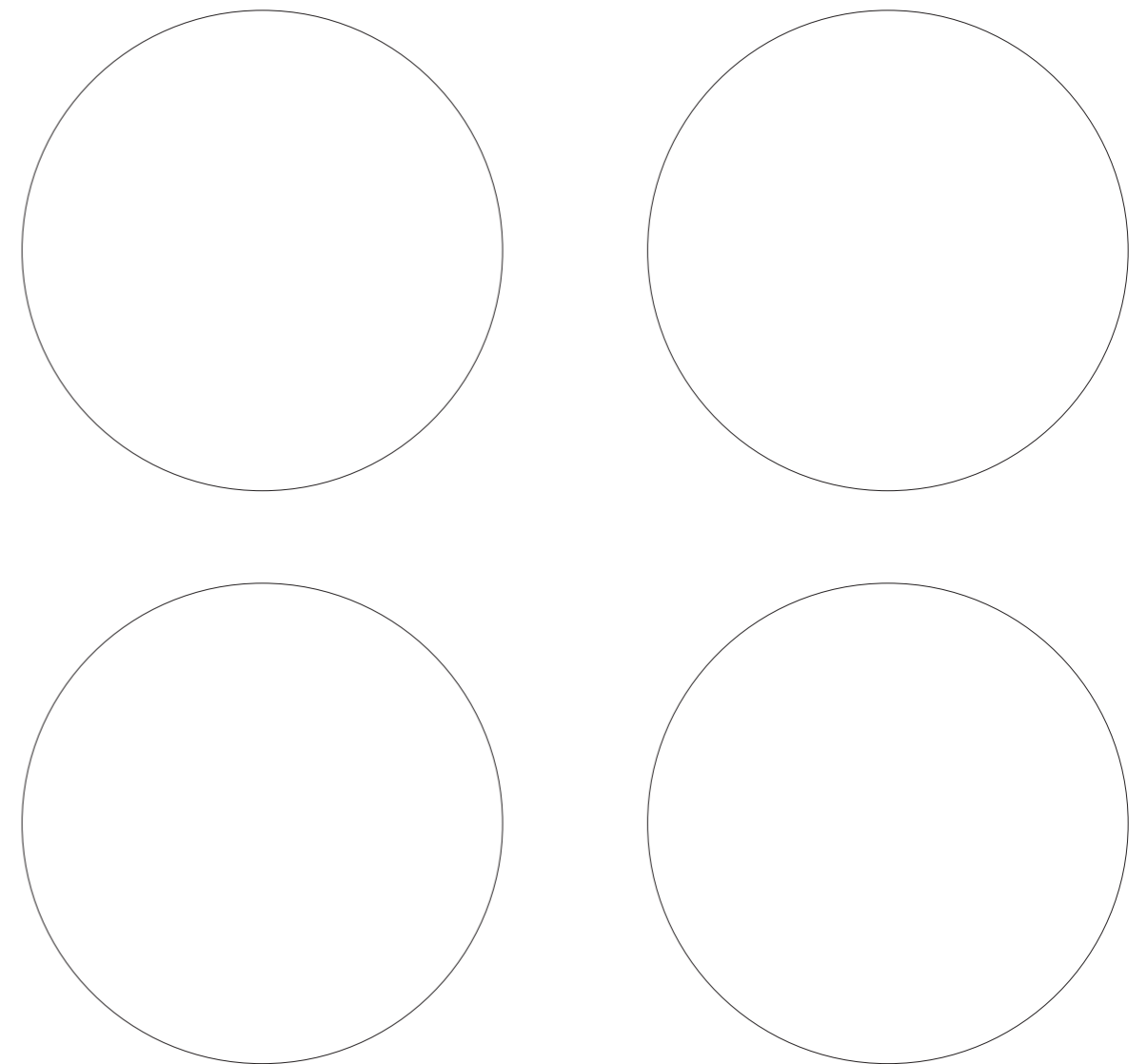
Email: dandy@dandyrolls.in

Website: www.dandyrolls.in

An ISO 9001:2008 Company



www.dandyrolls.in



*Making our mark  
in the Paper Industry*

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## ● PROFILE



Shri. G. Varadan  
OUR FOUNDER

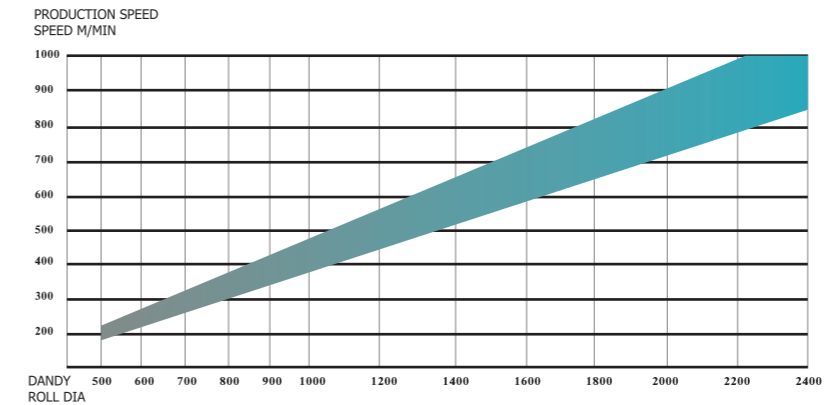
Dandy Rolls India Pvt. Ltd. is India's leading manufacturer of dandy rolls, related products and watermarks. Our emphasis on technical excellence, quality manufacturing and customer satisfaction has made a mark on clients in the paper industry across the world. We were founded in 1977 in collaboration with Woollard and Henry Ltd., Scotland U.K. by Shri G. Varadan and Mr. Michael C. Woollard. Our CMD, Mr. V.A. Narayan, recipient of the Rajiv Gandhi Shiromani Award from the Global Economic Council, continues to lead us as we ceaselessly refine our ability to:

- listen to clients
- customize intelligent and effective products for each clients' needs
- deliver exceptional before and after - sales service

ABOUT US

## ● TECHNICAL DATA

### DETERMINING DANDY ROLL DIAMETER



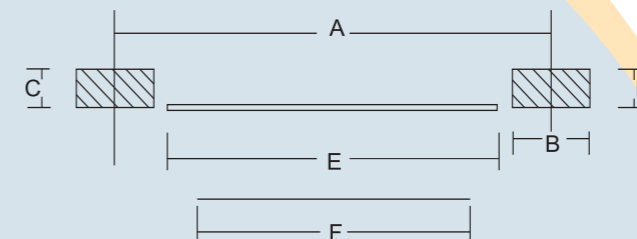
The diagram shows the relationship between machine speed and dandy roll diameter. The diameter of the dandy roll should increase with increasing machine speed to control water splashing and maintain ideal dandy roll rotation speed.

Please send us the following information for an inquiry:

### QUESTIONNAIRE FORM

Name of the mill :  
 Address (office) :  
 Address (mills) :  
 Contact persons :  
 Designations :  
 Machine number :  
 Speed range :  
 Length & width of wire :  
 Type of furnish :  
 Percentage of raw mat. :  
 Quality of paper produced :

### REQUIRED DETAILS



- A) Center to center distance of side bar :  
 B) Width of side bar :  
 C) Height of side bar :  
 D) Height of wire from the top of the side bar :  
 E) Wire width :  
 F) Trim deckle of paper on wire :  
 G) Drawing of wire part of machine :

TECHNICAL DATA

## ■ ● WATERMARKS, COVERS AND WIRE CLOTH

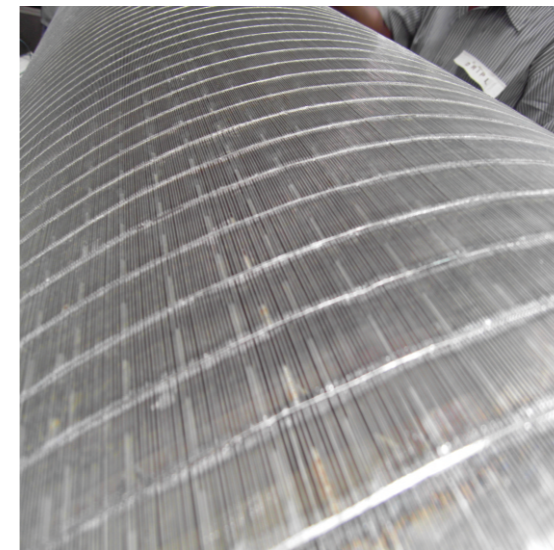
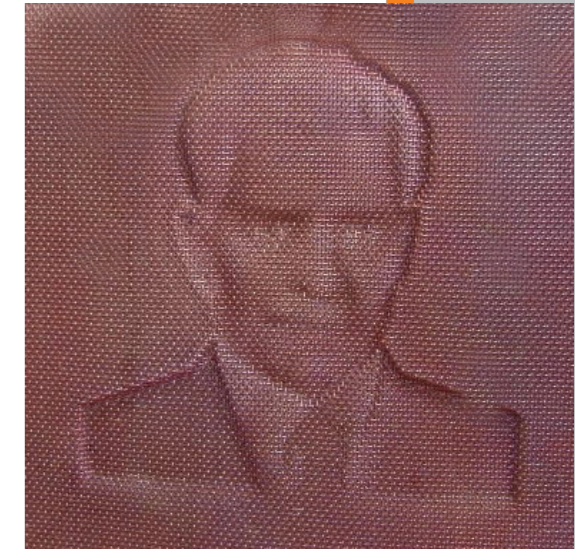
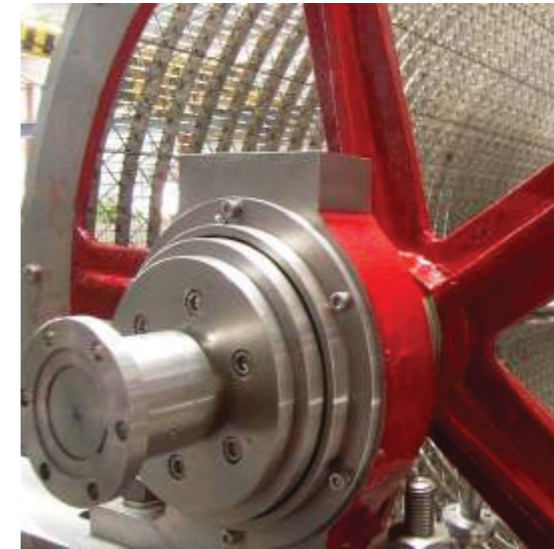
### WATER MARKS

Watermarks are impressions left on the running sheet of wet paper due to displacement of fibres by the electrotypes or embossed logos fixed on the dandy roll. Dandy Rolls India has pioneered watermarking technology in India. We are proud to note that every member of our watermarking department is a craftsman who fully understands the nuances of paper making and designs the watermark in consultation with paper makers according to their customized requirements. Care is taken to meet the needs of different machine speeds, different stock conditions and different GSM of paper.

### WIRE CLOTHS & SPARE COVERS

Dandy Rolls India manufactures plain wove top and bottom diagonally seamed covers for dandy rolls. These covers can be either mounted on the dandy roll or supplied as spares.

- 10 mesh is used as bottom cover (usually in dandy rolls above 800mm) and is generally supplied in SS-316L
- 35 mesh covers are supplied in SS or PB. They are either mounted on the dandy roll on request or supplied as spare covers
- Watermarks can be fixed on 35 mesh covers on the dandy roll at our premises. We also supply watermarked spare covers to fix on the dandy roll at the client's site
- In addition to the above, Dandy Rolls India can supply PB & SS wire cloths or covers for cylinder moulds, thickeners & washing drums in meshes as per clients' requests



WATERMARKS, COVERS AND WIRE CLOTH

## ■ ● PRODUCTS AND SERVICES

Our products include:

- Dandy Rolls: Wove and Plate Laid
- Modern Bracket Systems
- Showers and Cleaning Systems
- Watermarks and Embossed Covers
- Diagonally Seamed Cloth Covers and Wire Cloths in PB & SS-316L
- Cylinder Moulds and covers
- Dandy Roll Vacuum Suction Boxes
- Combi Rolls

We offer on-site service for Dandy Roll erection and commissioning, reconditioning, watermark fixing, and technical consulting.

### ACCESSORIES

We also supply:

- Dandy Roll Drives
- Stretch Rings for Mounting Covers

PRODUCTS & SERVICES

## QUALITY IMPROVEMENT SIMPLIFIED

### WHY USE A DANDY ROLL?

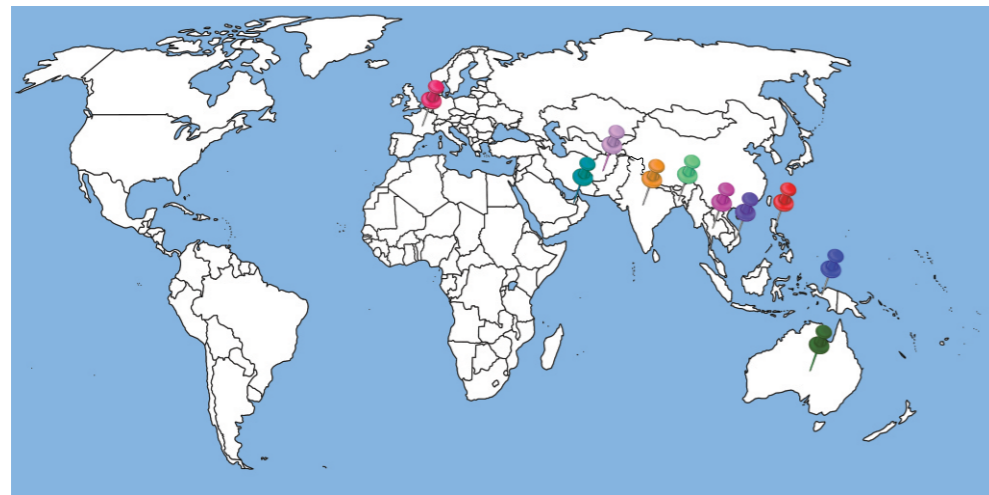
A dandy roll is a proven means to improve formation and consolidation of paper. It is also a necessary component to impart watermarks on paper.

The use of a dandy roll:

- Produces a stronger safer, more lint-free running sheet
- Helps the press function more efficiently
- Improves drying through better contact
- Enables calendars to create a more uniform finish
- Creates a better surface for printing, sizing, or coating

The range of paper grades which have benefitted from the use of our dandy rolls is wide - from liner products to laid papers, fine and watermarked paper to labels, writing papers to cigarette papers, the list is various. In fact, our research has shown that using a dandy roll to produce Kraft papers results in a compact sheet with lesser caliper variation across the sheet and an improvement of burst factor by 5-10% on average. A dandy roll can significantly improve numerous varieties of paper with the added economic asset of increasing production efficiency.

### OUR GLOBAL PRESENCE:



Dandy Rolls India's clients are in the following countries:

- |              |               |
|--------------|---------------|
| • India      | • Philippines |
| • Indonesia  | • UAE         |
| • France     | • Pakistan    |
| • Bangladesh | • Vietnam     |
| • Thailand   | • Australia   |

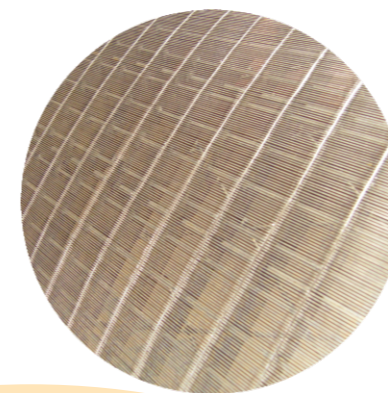
## DANDY ROLLS AND BRACKET SYSTEMS

Precision is the cornerstone of the performance of a dandy roll. Our dandy rolls exemplify the following:

- High degree of circularity and linear truth to maintain an even pressure across the sheet
- Reduced fiber buildup and body ring marking through a sophisticated helical design
- Heavier and more substantial rolls to increase torque resistance which maintains their original profile under arduous conditions
- Improved drainage to optimize the performance of continuous cleaning equipment

### TYPES OF DANDY ROLLS:

- Plain Wove: Helically coiled body with geodetic construction
- Plate laid : Made to create high quality ledger or laid papers using independently circled hollow type rings ranging from 0.3-0.5mm micro drilled & laid with passed wires



### BRACKET SYSTEMS

In order to maximize the efficiency of the dandy roll, it is necessary to run it on a modern system that can ensure a smooth and vibration free operation with minimum down time; Dandy Rolls India has designed precisely such a system, an elegant solution that has simplified paper production for our clients worldwide.

**High Speed Machines:** Our uniquely designed bracket systems for supporting centrally driven dandy rolls ranging from 1000-2000mm dia in size consist of heavy gauge SS-304 castings machined to a perfect finish. These brackets accommodate heavy duty spherical roller bearings, electro-mechanical motors for oscillating cleaning water/steam showers and the choice of customized save-all trays in fiberglass or Stainless Steel. High quality pneumatic air bellows ensure quick lift of the dandy roll assembly while the specially designed lifting eyes on the bearing housing allows for rapid change of the dandy rolls, minimizing down time.

**Slower Speed Machines:** We also manufacture bracket systems for machines ranging from below 150 m/min onwards - these may be vertical type brackets that run hollow or spindle type dandy rolls or friction driven trunion type systems.