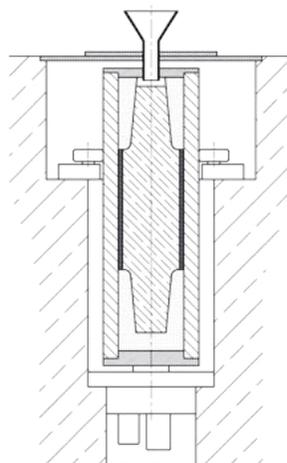




CENTRIFUGAL CASTING

Besides by static mono- or double-pour (compound) casting your rolls can also be produced by centrifugal or spin casting.

Spin casting has the advantage that due to the centrifugal forces pores and lighter particles like slag move to the inside of the roll where they are harmless.



This ensures a clean surface without any defects.

The spin casting process guarantees furthermore a radially homogeneous distinctive hard layer thus providing a superior run-out behavior of the roll under ambient and operating temperature conditions.

SERVICE

There is a problem with your roll? Please ask us for means of repair and grinding service under ambient or operating temperature incl. super finish. We measure your roll and if necessary we clean the peripheral bores. A rebuild of a displacer roll or even an unheated roll to a heating concept with peripheral bores provides a significant quality improvement of your product.

MACHINING DATA / CAPACITIES

Max. roll weight:	80 t
Max. roll diameter:	2.000 mm
Max. overall length:	10.500 mm

OTHER PRODUCTS FOR THE PAPER INDUSTRY

You want more?

Together we are strong. With the possibilities of all companies of the Buch Group we can help you with multiple other applications. Some of them consist of the following products:

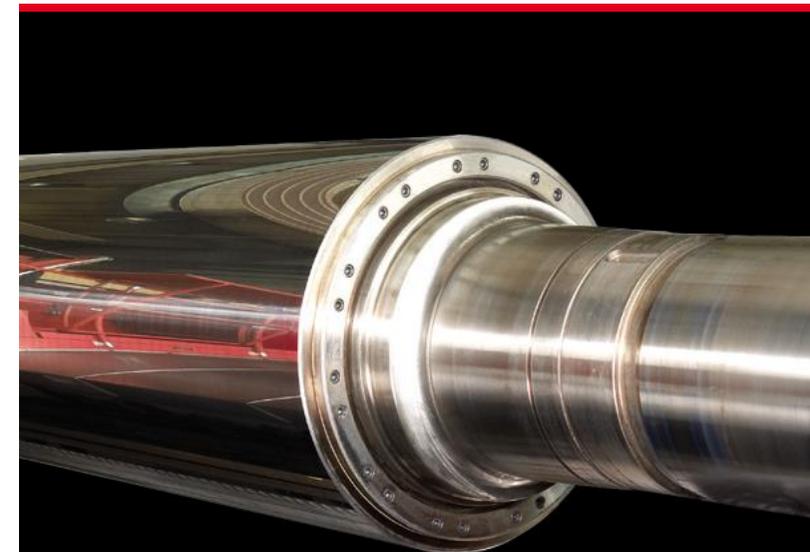
- Reel spools
- Carrier drums
- Coater drums
- Guide rolls
- Spreader rolls
- Other cast iron or steel rolls

Companies of the Buch Group:



BUCH

Buch Business Center GmbH



ROLLS FOR THE PAPER INDUSTRY



HIGH QUALITY IS OUR STANDARD

ROLLS FOR THE PAPER INDUSTRY

The heart of every Hardnip-, Machine-, Soft-, Super-, Multinip- or Shoenip Calender are the rolls.

Increasing requirements in speed, tolerances and quality of the more and more demanding production result in more and more increasing rolls requirements with regards to running behavior, wear resistance and temperature distribution.

Besides cast rolls for your calender or press section we can also provide you with welded / constructed rolls such as reel spools, winder drums, coater drums etc..



DURASOL ROLLS

Unheated solid chilled cast iron rolls with integrated or bolted-on journals are often being used in Hardnip or Machine Calenders with two or more rolls. We will be happy to talk to you about possible improvements of your production process with regards to design details of the rolls.

DURATHERM ROLLS

Today's Hardnip Calenders or Machine Calenders with two or more rolls, Soft-, Super- and Multinip Calenders are normally powered by heated chilled cast iron rolls with peripheral bores.

The thermal transfer from the heating medium to the roll surface of the peripheral bore system is superior and energy saving compared to other flow principles.

On top of the proven flow principles Monopass, Duopass and Tripass we have developed the Counterpass system which provides an especially homogenous distribution of the temperature over the roll surface.

CROMATHERM ROLLS

These alloyed and especially wear resistant heated rolls which are being manufactured using the spin casting process score with a very homogenous and if necessary even thicker hard layer than our DuraTherm Rolls.

SPHÄROTHERM ROLLS

Heated rolls made from nodular iron with peripheral bores used as an intermediate roll in a Multinip Calender ensure a safe operation of the individually used roll cover by means of minimization of the temperature difference between inner and outer diameter of the cover.



DURASHELL ROLL SHELLS

Roll Shells made from chilled cast iron are being used in anti-deflection rolls (Swimming Rolls, CC-Rolls or zone controlled piston rolls) in Hardnip Calenders / Machine Calenders and thus ensuring a homogenous paper caliper over the entire web width.

SPHÄROSHELL ROLL SHELLS

Roll Shells made from nodular iron are being used in anti-deflection rolls (Swimming Rolls, CC-Rolls or zone controlled piston rolls) with a rubber, plastic or composite cover on the surface. They typically run in Soft-, Multinip Calenders or certain press applications.

We customize the design, the type of heating and the material of the rolls according to your paper grade, your production specifics and your application.

