2 Specifications

2.1 Introduction

This chapter details the technical specification of the 2-roll hard nip calender.

The maximum values stated in this chapter are physically limiting values. These values are the basis of the machine layout and strength / loading characteristics of the components but are not assured properties in the legal sense.

Warning!

If the stated maximum values are exceeded there is a possibility that the equipment may be damaged. This could result in serious injury or death to personnel in the vicinity of the machine and damage to the environment caused by escapes of system oils and consumables.

Voith Sulzer Manchester Ltd. shall accept no liability for damage, injury and any subsequent consequential losses resulting from operation of the equipment outside of the designed-in and safe parameters.

2.2 Machine data

Type	Hard nip calender
Codeword	West Carrollton
Order no.	1.15.074.0 (VSMI 23152D)
Year of construction	1998

2.3 Design data

	Hard nip calender
Sheet weights	27.4 - 43.4 lbs/3300 ft.^{2}
Sheet width	164" - 166"
Roll face width	176"
Frame / bearing centres	216"
Maximum nip pressure	600 PLI
Operating speed	1900-2350 fpm
Design speed	2500 fpm
Balance speed	3000 fpm
Drive roll diameter	28"
Maximum surface temperature of drive roll	265°F
Econip roll diameter	22"

Editor: Bedforth
Author: Bedforth
1.15.074.0 gb 10.02.99
Customer: VSMI (West Carrollton)
Published with Interleaf 6.3

	Hard nip calender
Roll hardnesses	530 DPN min. (70 Shore C ±2)
Useable chill depth	0.45" approx.
Econip roll dry weight	21,000 lbs approx.
Drive roll assembly weight (dry) including bearings and housings only	32,000 lbs approx.

2.4 Data on noise emission

In accordance with EC Directive 'Machines'.

The calender shall be incorporated into a paper machine responsible for paper production in a mill environment.

Operators at the tending side of the calender will be exposed to sound levels of up to 100 dB/A.

2.5 Name and address of manufacturer

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