

The center roll is a PERITHERM ROLL, made of chilled cast iron, ground.

The bottom roll is a SWIMMING ROLL. The roll shell is made of cast iron with MOL cover.

Rolls in the second nip seen in the web running direction:

The top roll is a SWIMMING ROLL. Made of cast iron, with MOL cover.

The center roll is a PERITHERM ROLL, made of chilled cast iron, ground.

The bottom roll is a SWIMMING ROLL. Made of cast iron, with MOL cover.

TECHNICAL DATA 2.

PRODUCT DATA 2.1

. Liobė	min.	49 g/m²
web weight	max.	220 g/m²
. A Pub	min.	3455 mm
web width		136"
	max.	3607 mm
		142"
t a sections	approx.	70° C
web temperature	approx.	6%
web moisture	min.	0,33 N/mm
web tension	max.	1,16 N/mm

2.2

MACHINE DATA		
	Face	3810 mm
face width	B. C.	4660 mm
center bearing distance	min. fi	- 10 N/mm
Linear pressure in three roll operation	max. fl	350 N/mm
Linear pressure in two roll operation	max. fl	250 N/mm
	٧	670 m/min
speed (design)	min. v	150 m/min
speed (production)	max. v	670 m/min
lains poster to rone Dulley		1955 mm
distance machine center to rope pulley	to be confirme	ed by custome



2.3	TEMPERATURES		·	
	surface temperature of the heatable chilled cast iron roll	max.	200° C	
	surface temperature of the covered roll	max.	110° C	
2.4	WEIGHTS (APPROX. VALUES)			
	total weight of the calender per pair of frames	•	46.000 kg ادارهه	
	load per side	static	23.000 daN	
		dynamic	34.500 daN	
	rolls include roll bearings, etc.:	•		
	PERITHERM ROLL		11.500 kg/piec 25,3জ	
	SWIMMING ROLLS each	· ·	7.400 kg/piece	
2.5	ELECTRICAL RATINGS		3	
	electrical rating of the calender rolls per nip		255 kW (NRL) 1.25 ³	
	thereof per PERITHERM ROLL SWIMMING ROLLS each guide roll spreader roll rope threading (option)		99 kW (NRL) 123 K 78 kW (NRL) 97 K 1.5 kW (NRL) 2.6 kW (NRL) 16 kW (NRL)	
	The indicated power requirements (NRL) are design speed. We recommend calculating the rated drive capacity (RDC) 25 % higher.	relating to the		
		•	318 -746: 426h1/	



2.6	FURTHER ELECTRICAL RATINGS		_	. 	1347
	doctor oscillation ventilator for removal of edge trimming residues		6 x 1 x see und	11	kW
	heat exchanging unit for PERITHERM ROLL power requirement		2 x	30	kW
	hydraulic unit, power requirement for the Swimming Rolls Compressor for edge cooling		2 x 1 x		kW kW
2.7	ENERGY AND CONSUMPTION DATA			·	•
	operating voltage		:	575	V
	frequency			60 110	Hz V
	control voltage	max.		25	°C
	temperature cooling water	max.			
	(differential pressure min.2,5 bar)	max.		35	°C
	temperature ambient air temperature ambient air				
	electric switch cabinet/control cabinet	•		5 - 40) °C
	oir moisture for ambient air		•	30-90	n 0/4
	electric switch cabinet/control cabinet			6	bar
	instrument air pressure			3	bar
	compressed air for edge cooling			J	
	COOLING WATER REQUIREMENT FOR		-	17 m	31h
	heat exchanging unit for the PERITHERM ROLL hydraulic unit for the Swimming Roll			16 m	
	INSTRUMENT AIR REQUIREMENT for the Swimming Roll		16 m ^s	³/h @ 5	.5 bar
	COMPRESSED AIR REQUIREMENT			440 m	3/h
3.	DRIVE CONCEPT				1
4.	Drive side of the machine, seen in web running direction: to the le			е јеπ.	
	Revolutions per minute (RPM) of the individual relation to the design speed and nominal roll dia	olls in			



SWIMMING-ROLLS

Drive through toothed belt and gear transmission revolution at the gear transmission drive journal

891.8 min ^ - 1

PERITHERM ROLLS

Direct Drive via roll journal revolution at the drive journal

300.4 min ^ - 1

SPREADER ROLL Direct Driven

driven via V-belt and gear transmission revolution at the gear transmission drive journal

1523 min ^ - 1

GUIDE ROLL

direct drive via roll journal revolution at the drive journal

666.5 min ^ - 1

Rope Threading System

266.6 min ^ - 1

4. SCOPE OF SUPPLY AND MACHINE SPECIFICATION

MACHINE FRAMES

2 pairs of machine frames. Frame base adapted to specified sole plates/foundation plates, including fastening bolts. New sole plates included.

LOADING SYSTEM

4 pairs of loading systems

ROLL BEARINGS

2 pair of bearing rings, caps, and self-aligning roller bearings for the PERITHERM ROLL.



ROLLS

4 SWIMMING ROLLS shell material cast iron, external shell diameter with MOL cover 11,5 mm thick, finished diameter

535

558

mm

mm

- 4 pairs of self-aligning bearings and locking device for the Swimming Rolls
- 4 bulk heads for the SWIMMING ROLLS
- 4 toothed belt pulley for the Swimming Rolls
- 1 pair of dummy heads for recovering for the Swimming Rolls
- PERITHERM ROLLS with bolted-on journals.

shell material chilled cast iron, ground hardness depth min. 10mm, finished diameter

550 HV ± 20

710 mm

2 rotary joints for the PERITHERM ROLL with flexible hoses and connecting steel pipes mounted to the machine frame. including one cooling unit for both rotary joints

NOTE: All technical data needs to be reconfirmed later.

ROLL CHANGING DEVICES

By others

ASSEMBLY TOOLS

- 1 set of assembly tools for the PERITHERM ROLL, consisting of: hydraulic nuts for the installation of the roller bearings incl. hand lever pump for pressure supply of the hydraulic nuts,
- 1 tooth belt tension indicator.

Framework Above The Calender

Framework for roll change included. Cranes by others.