FABIO PERINI
KÖRBER SOLUTIONS

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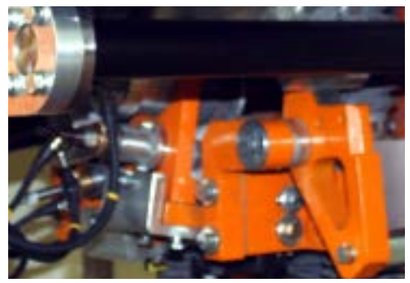
112D

LOG SAW



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112D
LOG SAW

The model 112D is a versatile orbital start-stop log saw designed to cut rolls destined for the industrial/institutional market segment, that can attain a mechanical speed of 120 strokes per minute.
The machine's versatility lies in the capability of installing circular blades in a diameter included between 810 mm and 1000 mm, which allow to easily cut logs having a minimum diameter of 110 mm up to a maximum diameter of 330 mm, in a variable cutoff length from 50 mm to 1000 mm.
Based on the results obtained with the latest generation log saws for consumer products, the model 112D bears new developments with the aim of featuring all the most efficient blade sharpening and cutoff precision characteristics on an industrial type log saw.
The knife sharpening system and blade lubrication and cooling techniques avoid abnormalities at the cutting phase, thus guaranteeing optimal performance in any working condition.
The orbital path followed by the blade guarantees a clean cutoff, minimizes vibrations and stress, thus decreasing risks of imperfections and quick blade wear.
Blade speed and cutoff phase parameters - cutoff and trim length - are controlled and set through panel even while the machine is running. The new, sophisticated axes control system makes all movements necessary for a complete optimization of the cutoff parameters independent.
The operator panel automatically controls the grinding wheels sharpening system, too, as well as the log blocking device at the cutoff phase through pneumatically closable clamps. The trim expulsion systems on-board the machines are simple and functional and ensure total operational reliability.

Technical Characteristics

- Nominal formats	2700, 2800, 3400, 3600 mm 106.3, 110.24, 133.85, 141.73 inches
- Pneumatic system	Min pressure 6 bar
- Air Consumption	ca 1200 Nl/min
- Control	PLC
- Inst. power	38 Kw (50.96 HP)
- Cut-off range min - max	50 mm (1.97") - 1000 mm (39.37")

- Mechanical production capacity

from 50 mm (1.97")	to 120 mm (4.72")	120 stk/min
from 121 mm (4.76")	to 250 mm (9.84")	80 stk/min
from 251 mm (9.88")	to 350 mm (13.78")	60 stk/min
from 351 mm (13.81")	to 500 mm (19.68")	40 stk/min
from 501 mm (19.72")	to 700 mm (27.55")	30 stk/min
from 701 mm (27.59")	to 1000 mm (39.36")	15 stk/min

- Knife lubrication	Oil mist following blade wear
- Knife drive control	Vectorial drive + Inverter
- Pushers drive control	Brushless servodrives
- Blade gib drive control	Vectorial drive + Inverter
- Grinding wheels approach	Motorized grindstone - Adjustable angle
- Knife wear compensation	Automatic
- Blade size	Ø 810 (31.89") - Ø 1000 (39.37")
- Max product density	0,32 Kg/dm^3 (19.97 lbs/foot^3)
- Braking system	By motor with holding brake
- Clamps	Elastic or semi-rigid type

Elastic clamps for diameter ranges

from 110 mm (4.33") to 118 mm (4.64")	from 115 mm (4.53") to 128 mm (5.04")
from 126 mm (4.96") to 140 mm (5.57")	from 138 mm (5.43") to 162 mm (6.38")
from 155 mm (6.10") to 172 mm (6.77")	from 168 mm (6.61") to 192 mm (7.56")
from 188 mm (7.40") to 213 mm (8.38")	from 210 mm (8.27") to 235 mm (9.25")
from 230 mm (9.05") to 245 mm (9.64")	from 250 mm (9.84") to 275 mm (10.83")
from 270 mm (10.63") to 295 mm (10.61")	from 290 mm (11.42") to 315 mm (12.41")
from 310 mm (12.20") to 330 mm (12.99")	

Semi-rigid clamps for diameter ranges

from 110 mm (4.33") to 130 mm (5.12")	from 130 mm (5.12") to 150 mm (5.90")
from 150 mm (5.90") to 170 mm (6.70")	from 170 mm (6.70") to 190 mm (7.50")
from 190 mm (7.50") to 210 mm (8.27")	from 210 mm (8.27") to 230 mm (9.05")
from 230 mm (9.05") to 250 mm (9.84")	from 250 mm (9.84") to 270 mm (10.63")
from 270 mm (10.63") to 290 mm (11.42")	from 290 mm (11.42") to 310 mm (12.20")
from 310 mm (12.20") to 330 mm (12.99")