

Circular Saw Machine



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LK-SSR-80NC

Manufacturer

LAXMAN KADVA & SONS (P) LTD.

(Formerly MISTRY LAXMAN KADVA MACHINES (P) LTD.)

Near Gokul Park Hotel, Jintan Udhyognagar, Surendranagar - 363 002. Gujarat, India.

Phone : 91-2752-224726 / 228161 Fax : 91-2752-231381 Email : laxson@laxsonbandsaw.com Web : www.laxsonbandsaw.com



LK-SSR-80NC Circular saw machine

The ideal solution for sawing bar material with highest precision and minimized idle times



SPECIFICATION			
MODEL		LK 80 SSR NC	
Material	Automatic operation	Round material diameter [mm]	10-80
		Rectangular material edge length [mm]	10-60
	Cut-off length [mm]		1100
Saw blade	Design		TCT/HSS SAW BLADE
	Dimensions [mm] (Dia x Thickness body x Thickness x Bore x Nos. of mounting hole & PCD)		285 x 2.01.7 x 32 x 4/9/50 & 4/11/63 or 315 x 2.0 x 1.70 x 32 x 4/9/50 & 4/11/63 + 4/12/90
	Number of teeth		60, 72, 80
Saw Drive	Cutter speed (m/min) variable by Inverter - via PLC	20-200 mpm	
		Cutting Feed rate [mm/teck]	0.01 to 0.06
	RPM/phase/Voltz/Hertz		1440/3/415/50
	Drive system		AC servo motor + ball screw + LM guided inclined slider
Drive Power(KW/HP)		11.2 /15	
Material Feed system	Drive system		AC servo motor + ball screw - LM Guide
	Feed length (mm)		6 to 1100
Coolant	Coolant type		Flood / Micromist Standard
	Flood coolant tank capacity (Litrs)		50 (Optional)
	Micro-mist tank capacity (Litrs)		0.5 Standard
	Air pressure for Micro-mist (Bar)		2 to 6
Hydraulics	Tank capacity (Litrs)		90
	Hydraulic pump (kW)		2.2 kW
	Control Voltage		24 V DC
Electricals	Main Supply		415 V/3 Ph/ 50Hz
	Machine dimensions (WxLxH)(mm)		2030x1960x1700
Dimensions	Machine weight (kg)		3500
	Bar magazine weight (6m)(kg)		490
	Auto loader / Bar loading magazine		(Optional) Ø 80 mm X 12 Pieces
Chip conveyer		Screw type conveyer	

* dimensions without bar magazine

FEATURES

High-performance precision sawing

The robust inclined guide of the saw head ensures a perfect rake angle and guarantees high cutting accuracy with maximum performance.

CS / HSS circular saw blades

The use of very thin carbide saw blades with low cutting width guarantees minimum off cut at maximum cutting performance. Thanks to the special tooth geometry, it is possible to produce optimum cutting surfaces with virtually mirror-like surfaces and the lowest surface roughness.

Clean and dry sawing process

The proven minimum lubrication system ensures clean and almost adhesion-free cuts.

Easy operation

The LAXSON NC technology allows easy operation without the need for machining or programming knowledge.

Maximum tool life

To reduce saw blade vibration, the machine is equipped with special saw blade plate guides that move the blade near to the teeth on both sides. This enables maximum cutting precision and the best saw blade life at low unit cost.

Electromagnetic braking system

The unique & smart electromagnetic braking system effectively runs the gearbox very smoothly when the saw blade makes contact with the material to be cut.



Robust and torsion-resistant

A robust saw head with special backlash free gearbox and a ball screw drive in a torsion-free machine bed are the basis for maximum cutting precision.



High-precision feeder

The material feed via a servo-controlled precision gripper with ball screw and linear guiding guarantees the most accurate cutting lengths and a maximum repeatability of under 0.1 mm. Compared to other feeder systems.



Easy operation

The data for cutting lengths and numbers can be easily entered step-by-step via the "touch screen" display. NC-controlled monitoring and setting of the cutting values ensures optimum cutting values.



Automatic and piece sorting facility

The trim cut length is set via the NC controller and can be freely selected between 15 and 40 mm. During automatic operation, trim cuts and remnants are discharged to the left side while saw cuts are fed into a container made available on the other side.



OPTIONAL ACCESSORIES

Automatic bar feed

Automatic material feeding via an inclined loading magazine allows unmanned sawing operation even for material lengths in excess of 6 m. This is supported by the automatic, optical detection of the work piece starting point for trim cutting and the automatic, electromagnetic detection of the material in the rear vice.

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Our Service center

Ahmedabad :

B-50 Tejendra Estate, Soni ni Chali,
Opp: CMC, Odhav - Ahmedabad.
Ph.: (02752-224726, 228161), M.: 98252 24681

Vadodara :

A/257/1, Bank Of Baroda Lane, Makarpura G.I.D.C.,
Vadodara - 390012, M.: 98252 24681
email : laxson@laxsonbandsaw.com

Rajkot :

6- Umakant Pandit Udyog Nagar, Opp. Mac-Power Industries,
Near Reliable Engineers, Rajkot - 360 004 Mo.: 9429649246.