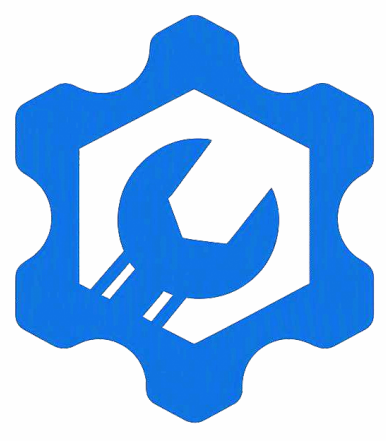




Sterling Path Tools

SPT-FAS4193

Fully Automatic Cutting Bandsaw
Product Specification



Product Overview

The GrandEdge SPT-FAS4193 represents a new standard in high-output, heavy-duty structural and solid-stock material processing. Engineered explicitly for medium-to-large machine shops, steel service distribution centers, and structural manufacturing yards, this fully automatic, horizontal dual-column band saw bridges the gap between raw mechanical muscle and advanced digital automation. Moving far beyond traditional, flexible pivot-arm "scissor-style" machinery, the SPT-FAS4193 utilizes a rigid twin-post architectural layout engineered to absorb massive harmonic vibrations, prevent blade deflection or "walk," and ensure laser-straight cut parallelism across dense raw material profiles.

The GrandEdge SPT-FAS4193 is built on a massive, low-profile 1,660 kg (3,660 lbs) cast-iron frame supported by heavy-duty Φ 85mm dual-guide columns, this machine eliminates structural micro-vibrations to deliver parallel, laser-straight cuts while maximizing blade longevity.

Equipped with an industrial-grade 6.0 HP (4.47 kW) main drive motor paired with a direct-drive helical gearbox, the GrandEdge provides continuous, high-torque cutting power through tough tool steels and titanium. The integrated Variable Frequency Drive (VFD) allows operators to infinitely adjust blade speeds from 20 to 100 m/min directly via the premium, cloud-ready Weintek cMT3072XH3 Smart HMI touchscreen control panel.

Automation efficiency is driven by an extended 430 mm (16.9") single-stroke hydraulic shuttle vice capable of a 99-repeat multi-indexing sequence, cutting long components faster by eliminating redundant indexing cycles. Complete with automatic hydraulic blade tensioning, an optimized 60-liter high-capacity cooling hydraulic reservoir, and 3,600 lbs of clamping force, the GrandEdge SPT-FAS4193 is a continuous-production powerhouse designed to streamline workflow, minimize operator error, and maximize throughput on your shop floor.

Technical Specification

Product Name	GrandEdge Double-Column Saw
Product Type	Fully Automatic Cutting Bandsaw
Main Motor Power	4.47kw (6HP)
Net Machine Weight	1,660 kg (3,660 lbs)
Hydraulic Pump Motor Power	0.75 kW (1.0 HP)
Band Saw Blade Tensioning	Hydraulic
HMI Interface Hardware	Weintek cMT3072XH3
Blade Tensioning	Automatic Hydraulic
Blade Speed	20 to 100 m/min (65 to 330 SFPM)
Coolant Pump Motor	0.12 kW (0.16 HP)
Blade Speed Control	Variable Frequency Drive (VFD)

Dimensions & Performance

Max Round Capacity	325 mm (12.7")
Vice Clamp	Hydraulic
Maximum Vise Clamping Force	3,600 lbs (16.0 kN)
Blade Width	34 mm (1.33")
Hydraulic Oil Tank Capacity	60 Liters (15.8 Gallons)
Max Multi-Indexing Sequence Cuts	99 repeat loops
Blade Length	4115 mm
Ambient Working Temperature	+40°C (104°F)
Working Machine Bed Height	750 mm (29.5")
Dual Column Guide Diameter	Φ 85 mm (3.34")
Max Rectangular Capacity	325 mm (12.7")
Machine Size (L*W*H)	2250x2400x1660 mm
Main Transmission Gear Type	Heavy-Duty Helical Gear Box (Direct Drive)
Single Feed Index Stroke	430 mm (16.9")
Hydraulic Pump Motor Power	0.75 kW (1.0 HP)

INSTALLATION CONDITIONS

1. Floor & Foundation Requirements

Slab Thickness: A flat, level concrete industrial floor with a minimum thickness of 6 inches (150 mm) is required.
Weight Capacity: The floor must safely support the machine's operating weight of 1,660 kg (3,660 lbs) without shifting or cracking.

Anchoring: The base includes heavy steel anchoring holes. While the saw's squat center of gravity prevents tipping, anchoring it directly to the concrete floor eliminates long-term harmonic vibrations.

2. Electrical Power Supply

Grid Footprint: The machine requires a standard US 3-Phase industrial power hookup.

Voltage Options: The machine must be configured at the factory for either 230V or 460V at a true 60Hz frequency before dispatch. A licensed shop electrician must handle the final wire drop into the integrated side terminal cabinet.

3. Operational Clearance & Footprint

Machine Footprint: The physical machine dimensions are 2,250 mm x 2,400 mm x 1,660 mm (88.6" x 94.5" x 65.0").

Safe Working Zone: The shop must allocate a perimeter clearance of at least 3 to 4 feet around the machine for routine maintenance access, blade changes, and smooth rear movement of the 430 mm material shuttle vice.

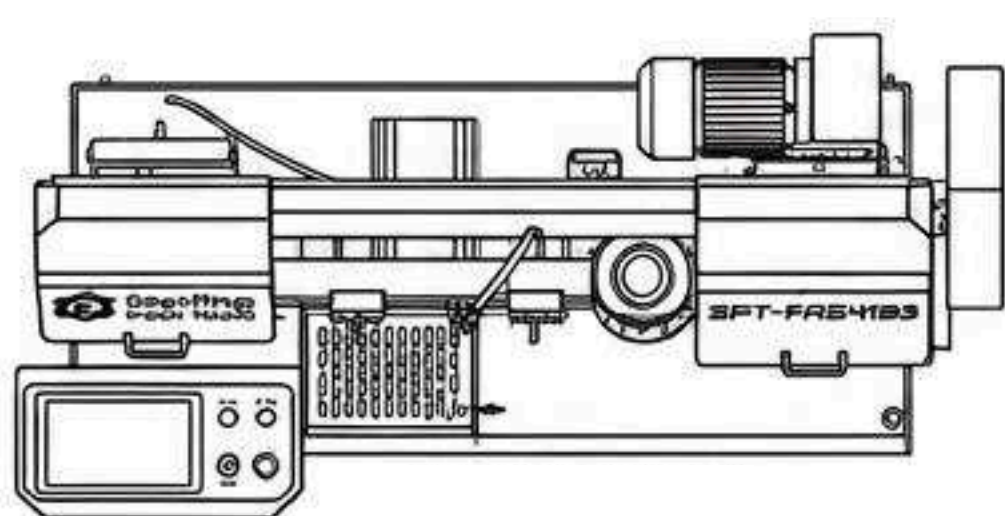
4. Turnkey Fluid Requirements (Shipped Dry)

Because freight regulations require the machine to be shipped dry, the end-user must provide the following fluids during the unboxing process.

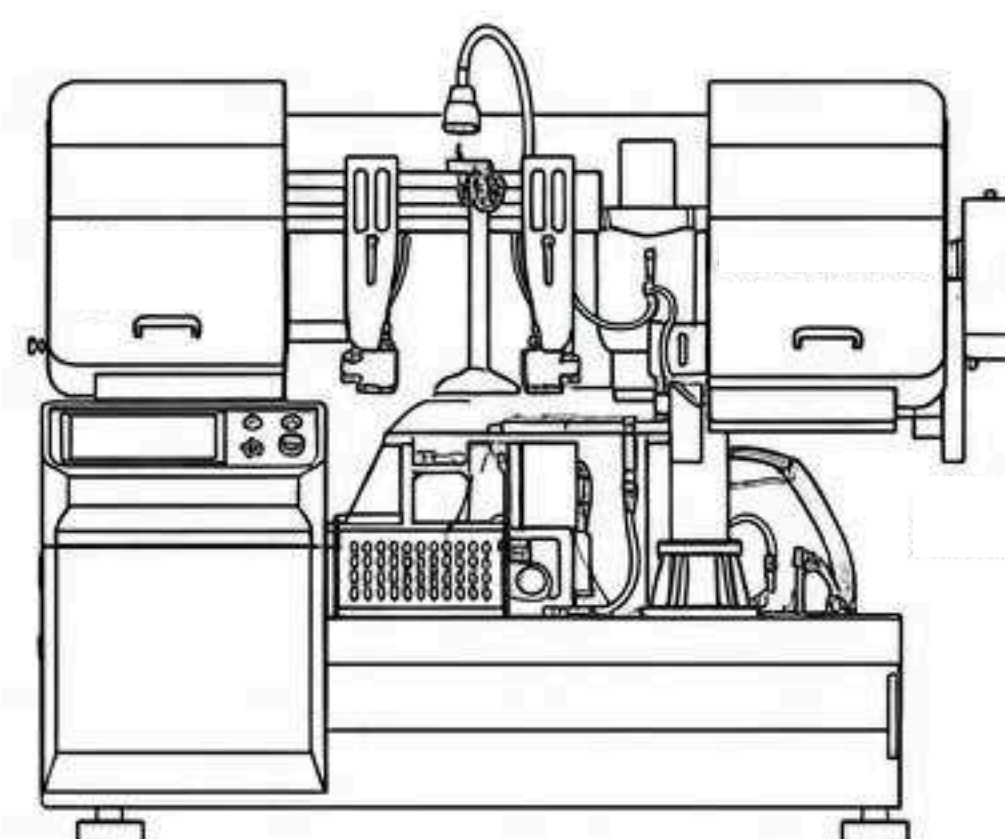
Hydraulic Oil: 60 Liters (15.8 Gallons) of standard anti-wear industrial hydraulic oil (ISO VG 32 or ISO VG 46 depending on average shop temperature).

Coolant Reservoir: Water-soluble metal cutting fluid to fill the lower closed-cabinet flood coolant tank.

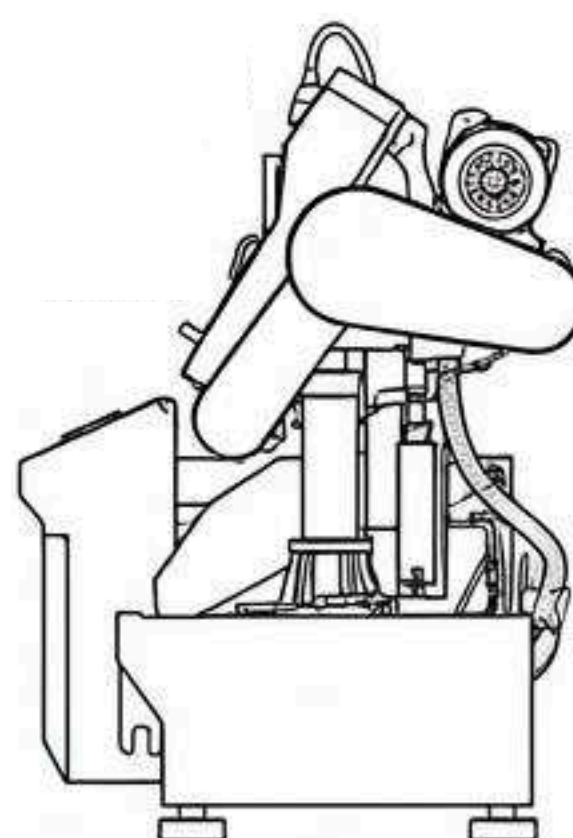
Technical Diagram



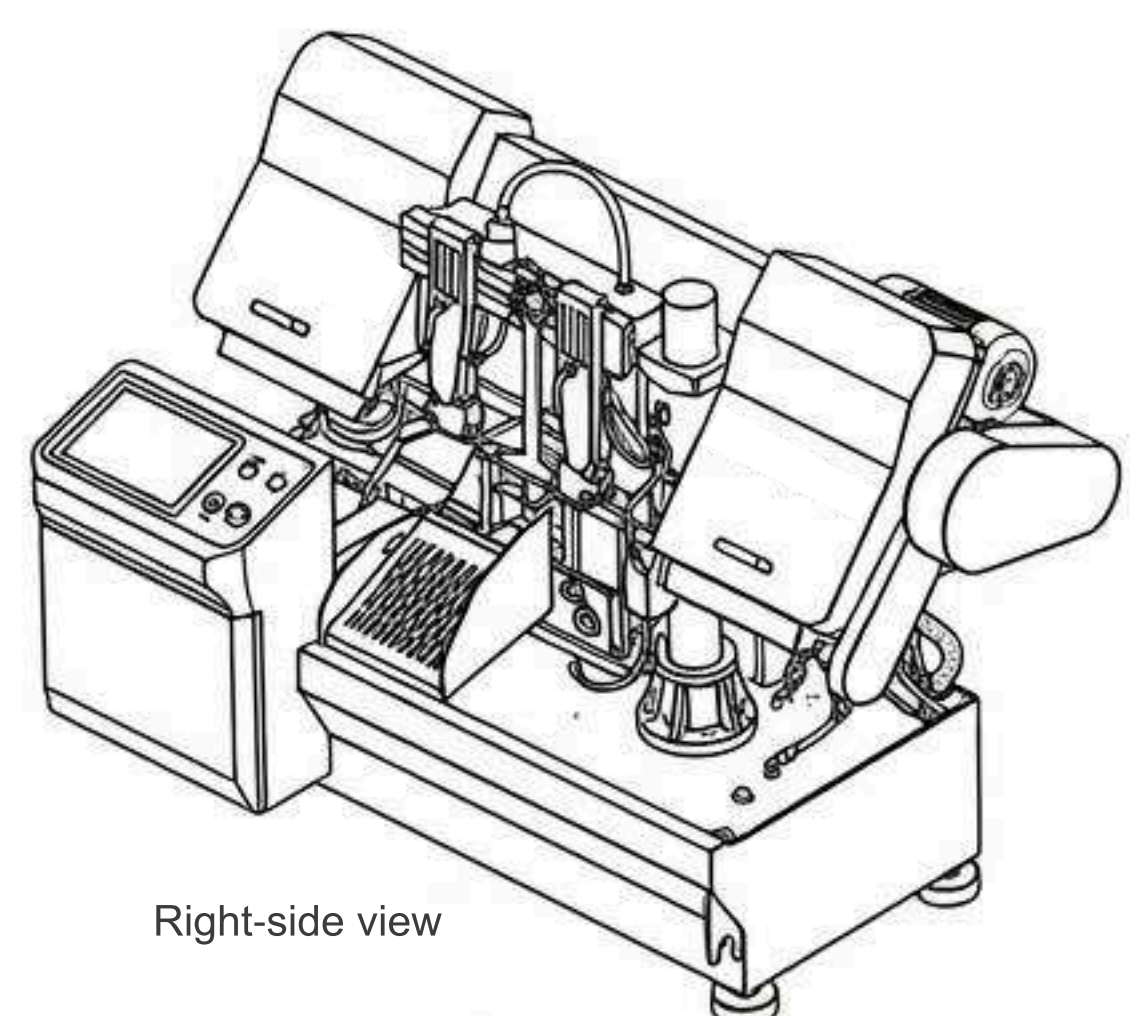
Top view



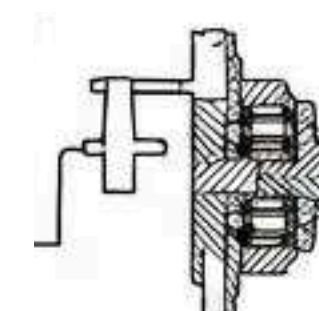
Front view



Side view



Right-side view



Blade Guide

For more information on sterling path tool's "GrandEdge Fully Automatic BandSaw" contact:

Sterling Path Tools - 1 Memorial Drive, Richford, VT 05476

Tel: +1 (802) 330-6376

Email: quotes@sterlingpathtools.com

Website: www.sterlingpathtools.com

Suitable Applications

- Oil & Gas Fabrication Facilities
- Power Generation Plants
- Aerospace Component Production
- Mining Equipment Fabrication
- Large-Scale Fabrication Shops
- Industrial Robotics & Automation
- Chemical Processing Equipment Fabrication
- Railroad & Transportation Manufacturing



- Sterling Path Tools
- GrandEdge Series
- Designed for Clean Cuts & Heavy Duty Efficiency

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