

KS490V

4" x 90" abrasive belt grinder with vacuum base

Production-ready finishing for welding, fabrication & manufacturing shops

4" x 90" belt (all belt types)

6900 SFPM belt speed

Multi-position head
(horizontal→vertical)

Quick-release spring belt tension

Talk to an applications specialist: (269) 382-2050 | 800-592-2050



When finishing isn't controlled, throughput suffers

Common pain points in welding & fabrication shops

Rework from inconsistent edges

Hand grinding varies by operator—showing up as uneven edge breaks, chatter marks, and extra rework before fit-up and coating.

Bottlenecks at weld cleanup

Weld blending can become the pacing step. Without a stable grinder, cycle time stretches and labor costs climb.

Dust, grit & cleanup time

Abrasive debris migrates everywhere—impacting safety, nearby equipment, and the amount of end-of-shift cleanup.

The goal: fast, repeatable edge prep and weld finishing—with less mess.

KS490V is built for production finishing

Key features that drive speed and consistency

- 4" × 90" belt (compatible with all belt types)
- Direct drive with 6900 SFPM belt speed
- 2 HP (1PH, 230V) or 3 HP (3PH, 230V/460V) motor options
- 24-1/2" reversible, replaceable steel platen
- 8" OD × 4" serrated 70-duro contact wheel with sealed bearings
- Adjustable grinder head: horizontal to vertical + adjustable head stop
- Magnetic on/off switch + adjustable steel work table



Rear view: integrated vacuum base + controls

Vacuum base keeps the station clean & stable

Designed to reduce airborne grit and keep the machine planted without bolting down

Integrated vacuum system

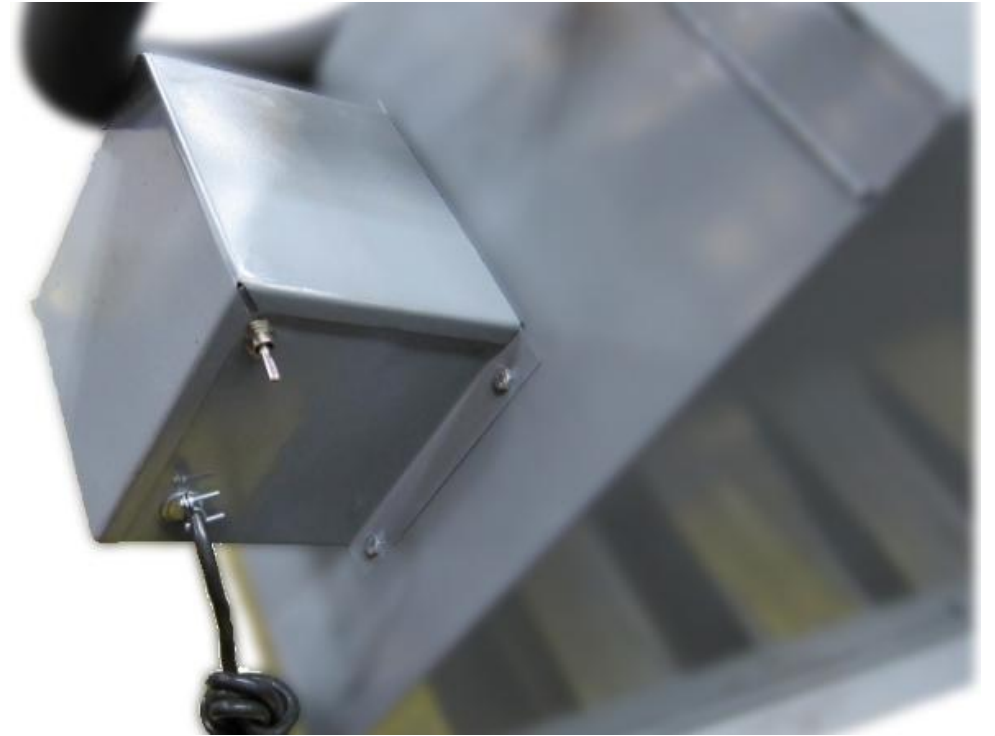
Built-in steel base with vacuum system captures dust and debris at the source for a cleaner weld bay and fab floor.

Service-friendly filtration

Replaceable cloth filter (5X878) makes routine maintenance simple—no complex ducting required.

Simple controls

Separate vacuum on/off switch with 110V plug keeps the grinder and vacuum easy to manage on the shop floor.



Control the finish—across the jobs you run every day

Common tasks where the KS490V saves time and improves consistency

Bevel edges before fit-up & welding

Prep consistent bevels and edge geometry to reduce fit-up time and improve weld quality.

Deburr after cutting, drilling, or punching

Remove sharp edges quickly on brackets, tabs, tube ends, and plate parts for safer handling.

Weld cleanup & blending

Blend welds for appearance and function—supporting production finishing before assembly.

Surface prep before paint / powder

Clean up flat surfaces on plates and brackets for better coating results and fewer rejects.

Fast belt changes. Easy tuning.

Less downtime between grit changes and jobs



Spring belt tension (close-up)

Built for quick adjustments

- Spring belt tension with quick-release lever
- Hinged door on grinder head for easier belt access
- Easy belt tracking for precision adjustments
- Removable steel platen guard for setup flexibility

Where it fits in your manufacturing workflow

A finishing station that supports both one-offs and repeat production

Weld bay finishing

Blend welds, remove spatter, and prep edges before assembly and inspection.

Cut-to-length cleanup

Deburr edges after laser/plasma, saw, drill, or punch operations.

Tool room & maintenance

Sharpening, contouring, and general metal prep without moving parts across the shop.

Production consistency

Supports repeat edge prep so parts are more consistent job-to-job—helpful for downstream processes.

Specifications snapshot

What matters for welding & fabrication shops

Belt	4" × 90" 7200 SFPM	Vacuum	Built-in steel base + replaceable cloth filter (5X878)
Motor options	2 HP (1PH 230V) 3 HP (3PH 230V/460V)	Vacuum power	Separate on/off switch with 110V plug
Grinding surfaces	24-1/2" steel platen + 8" OD × 4" serrated contact wheel	Electrical (amps)	1PH 230V: 11.5A 3PH 230V: 7.2A 3PH 460V: 3.6A
Head positions	Adjustable head: horizontal → vertical	Shipping size	48" L × 59" W × 56" H
Controls	Magnetic on/off switch (grinder)	Shipping weight	325 lb (subject to change)
Made in the USA			

Options & planning checklist

Configure the KS490V for your workflow and floor space

Common add-ons

- Variable Frequency Drive (optional)
- Aluminum oxide belts: 50, 80, 100 grit
- Replacement cloth filter (5X878)
- Standardize belt kits by job type (deburr / blend / finish)

Setup checklist

- Select phase/voltage at order (1PH 230V or 3PH 230V/460V)
- Allow access for filter service and cleanup
- Keep belts staged by grit to reduce changeover time
- Train operators on belt tracking + table setup





Ready to upgrade your finishing station?

Tell us your material, part size, and voltage—then we'll recommend the best setup for your shop.

Call

(269) 382-2050 | 800-592-2050

Hours: Mon–Fri, 8:00 AM–4:30 PM (EST)



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We'll confirm configuration,
lead time, and options
for your workflow.

