



# K12-14MS

14" Abrasive Metallurgical Sectioning Saw

Lab-quality sectioning for production shops

Enclosed wet cutting

Semi-automatic downfeed

Built for repeatability

Made in USA

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



# When sample prep isn't controlled, results suffer

Common pain points in in-house labs and QA areas

## Operator variation

Manual “chop saw” cutting can change from person to person—showing up as inconsistent sectioning and rework.

## Sample integrity risk

Heat and distortion during cutting can compromise the sample—especially on hardened or heat-treated material.

## Mess & safety concerns

Abrasive grit and coolant overspray can turn a lab corner into a cleanup problem—day after day.

**The goal: clean, repeatable cuts that protect the sample and your workflow.**

# K12-14MS is built for controlled sectioning

Key features that support lab-grade repeatability

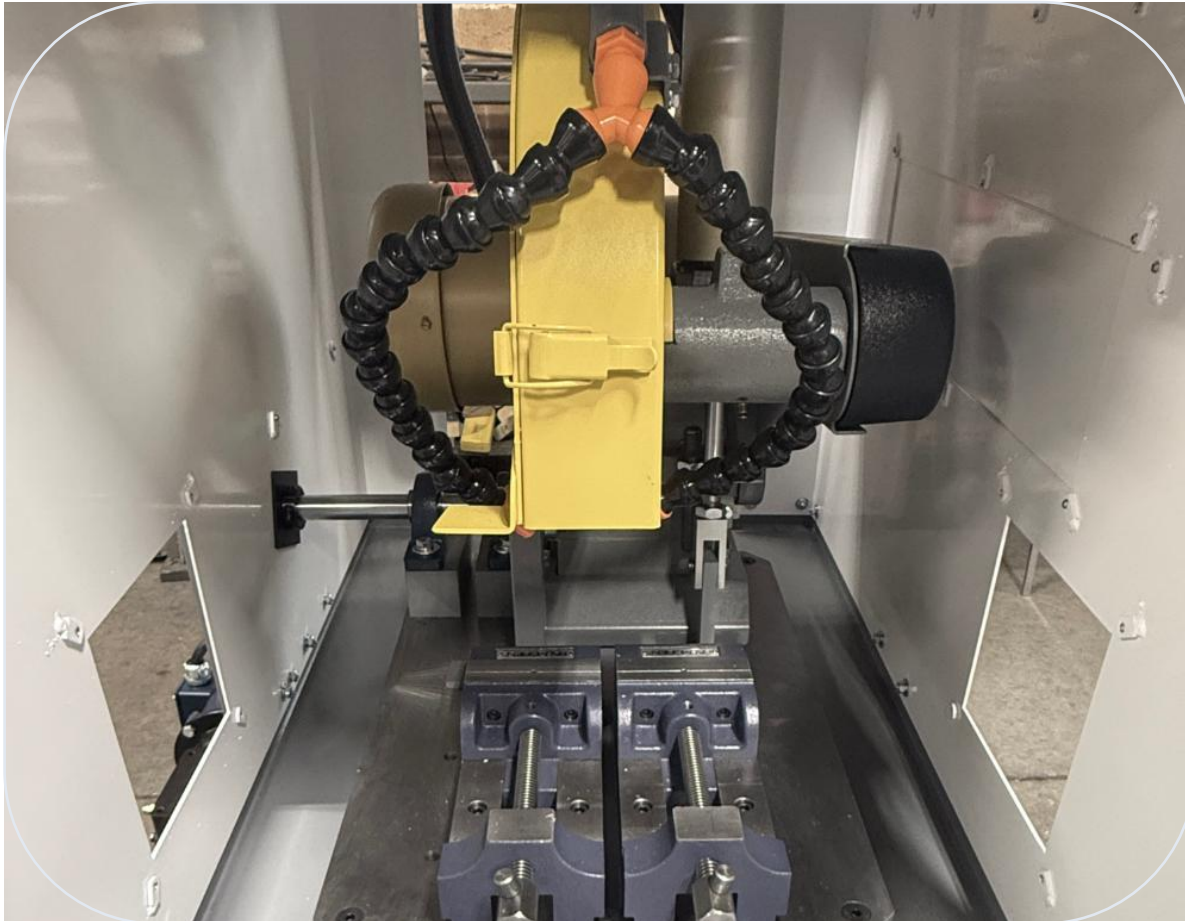
- Semi-automatic air/oil power down feed for consistent cutting
- Adjustable feed rate 0–12 FPM + momentary rapid override
- Enclosed steel cabinet with hinged doors to contain grit and coolant
- Flood coolant (10 gal tank, 1/4 HP) + dual coolant nozzles
- Oscillation included to enhance cutting efficiency
- Dual movable 4" screw vises for repeatable workholding



Enclosed cutting area supports clean, stable sectioning

# Repeatable workholding = better samples

Built-in clamping designed for coupons, small sections, and irregular parts



## Dual movable 4" screw vises

- Improves clamping consistency across operators
- Supports straight, square sections for microscopy and QA
- Reduces part movement that can damage a sample edge
- Pairs with controlled downfeed to minimize cut variability

**Cutting capacity: 2.5" solids | 3" shapes (mild steel)**

# Control the cut. Contain the mess.

Features built for lab/QA environments inside production shops

## Semi-automatic downfeed

Air/oil power down feed with adjustable feed rate (0–12 FPM) helps reduce operator fatigue and variation.

## Wet cutting + coolant delivery

Flood coolant system (10 gal tank, 1/4 HP) and dual nozzles support stable cutting and cleaner sample prep.

## Enclosed steel cabinet

Hinged doors and enclosed cutting area help keep grit and coolant off the shop floor.

## Built-in efficiency helpers

Oscillation is included, plus a momentary rapid override for quick approach when setting up the cut.



# Specifications snapshot

What matters for shop labs and QA teams

## Drive & cutting control

- 5 HP, 3-phase, TEFC motor (1725 RPM, 60 Hz)
- 2200 RPM spindle speed
- Semi-automatic air/oil power down feed
- Adjustable 0–12 FPM feed rate + rapid override
- 14" wheel (not included); 1" arbor (optional 1.25"/32 mm)
- Dual coolant nozzles + flood coolant (10 gal, 1/4 HP)
- Oscillation included

## Capacity, workholding & size

- Cutting capacity: 2.5" solids | 3" shapes (mild steel)
- Dual movable 4" screw vises
- Steel enclosure with hinged doors
- Magnetic switch with 24V low-voltage protection
- 24V LED light
- Machine size (approx.): 39" L × 26" W × 60" H
- Shipping weight (listed): 1000 lb (subject to change)

# Where it fits in your shop lab

Common sectioning jobs that demand repeatable, clean cuts

## Metallurgical sample prep

Micro/macro evaluation and documentation-ready samples

## Heat treat verification

Pre- and post-heat-treat sectioning for checks

## QA verification cuts

Incoming/outgoing inspection with consistent prep

## Failure analysis support

Sample removal from bars, tubes, and forged parts

**Made in USA**



# Options & accessories

Configure the saw for your workflow

## Common add-ons

- KW1 spindle wrench
- KC5 5' gravity-fed conveyor + KCL leg
- 1.25" spindle bushing (optional arbor size)
- Removable infeed/outfeed panels for handling longer parts
- Door safety interlocks
- T-slot table
- Air jawed vises





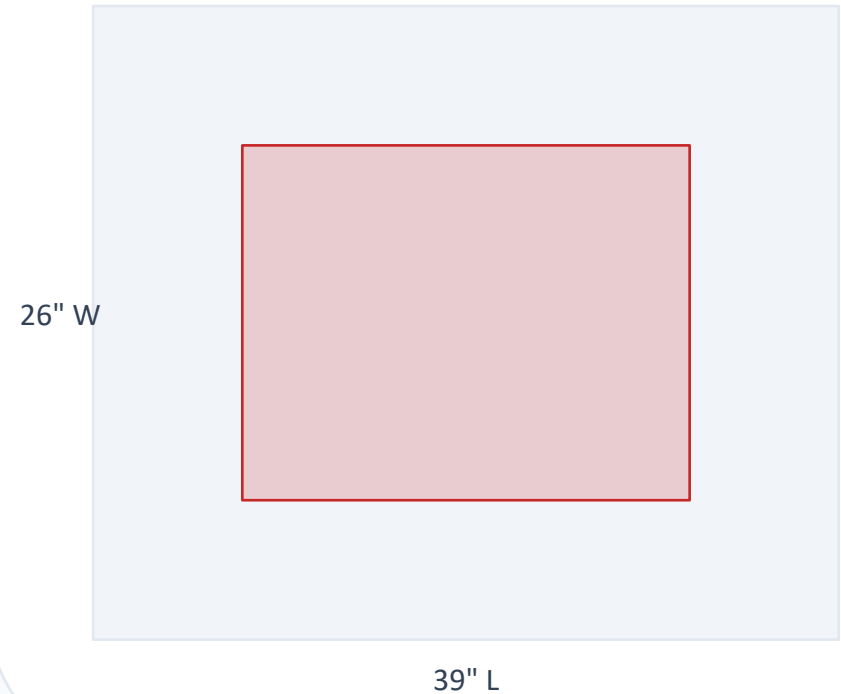
# Installation & planning checklist

Set up your lab area with confidence

- Power: 3-phase; FLA listed 13.4A @ 230V or 6.7A @ 460V
- Footprint (approx.): 39" L × 26" W × 60" H
- Shipping (listed): 58" L × 58" W × 77" H; 1000 lb (subject to change)
- Wheel selection: choose the cutoff wheel for your material and finish needs (wheel not included)
- Coolant: allow room for coolant service and cleanup access

## Footprint (approx.)

60" H





# Ready to upgrade your lab sectioning process?

Tell us your material, sample 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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[kalamazooind.com](http://kalamazooind.com)

## Request a Quote

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

