

Clausing

**KALAMAZOO**

# High-Production Cold Saws



A full range of ruggedly built manual, pneumatic vise, semi-automatic and fully automatic cold saws

**Simply the Best**



# Manual Ferrous an

Manually operated saw and vise ideal for one-off or short production runs of mild steel, aluminum and tubing.

## Features:

- 208/230/460/60/3 Electricals
- Totally Enclosed Fan-Cooled Motor
- Enclosed Worm Gear Drive for trouble-free Operation
- Two Speeds for Versatility
- Cast Iron Construction
- Self-Centering Vise with Angle Scale
- Head Rotates 45 Degrees left and right of Center
- Flood Coolant System (CS & FHC Models)
- Mist-matic Coolant System (CA Models)
- Heavy Duty Sheet Metal Base
- Adjustable Stock Stop (Models FHC315D & FHC350D only)
- Serrated Vise Jaws (CS)
- Tool Kit
- Circular Saw Blade
- Operation and Maintenance Manual
- Two (2) Year Limited Warranty

## Optional Equipment: (all models)

- Adjustable stock stand
- 5 foot roller stock table
- 10 foot roller stock table
- Adjustable stock stop for roller stock table

## Optional Equipment: (CS350 & CA350 models)

- Adjustable stock stop
- Aluminum 90° vise wear plates (CA350)
- Steel 90° vise wear plates (CS350)
- Diamond shape vise wear plates
- Speed change kit
- Fixture mounting table (CS,CA)
- Vacuum chip removal system (CA350)

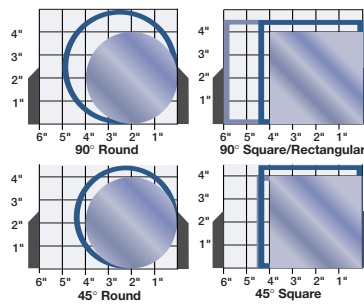
(For part numbers see page 10)



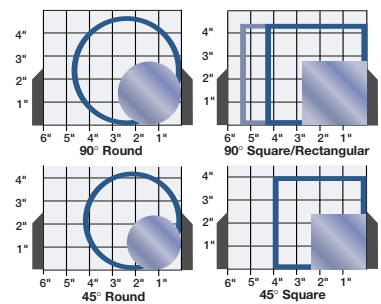
CA350

## Capacity Charts

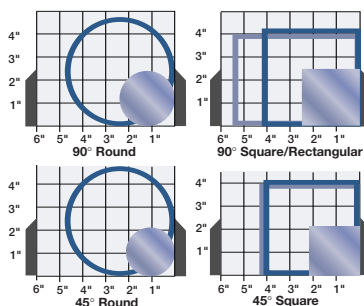
### CA350



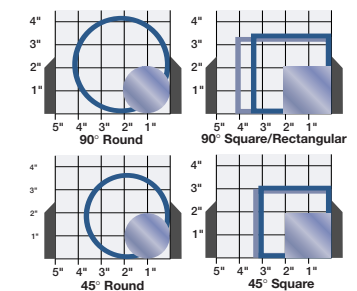
### CS350



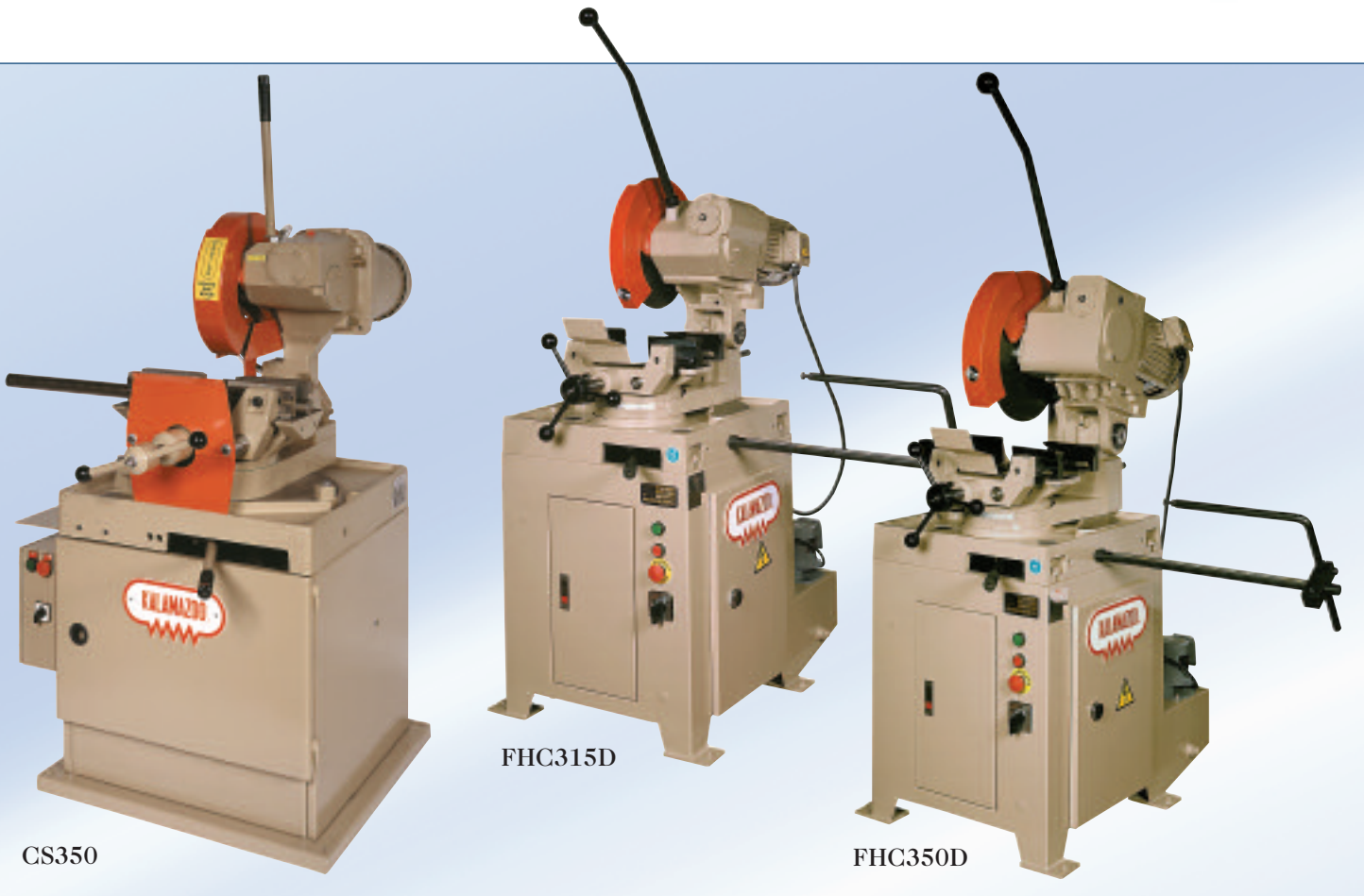
### FHC350D



### FHC315D



# Nonferrous Cutting Machines



CS350

FHC315D

FHC350D

Specification	CA350	CS350	FHC315D	FHC350D
Drive Motor	5 hp	1.5 hp/3 hp	1.5 hp/2 hp	2 hp/3 hp
Angles (left & right)	45°	45°	45°	45°
Electricals	208/230v. or 460v. - 3ph	208/230v. or 460v. - 3ph	230v. or 460v. - 3ph	230v. or 460v. - 3ph
Control	110v.	110v.	110v.	110v.
Coolant	Standard	Standard	Standard	Standard
Spindle Speeds (rpm)	1700/3400	20/40 or 30/60	35/70	26/52
Max. Blade Size	14" (350mm)	14" (350mm)	12½" (315mm)	14" (350mm)
Max. Vise Opening	6"	6"	6"	6"
<b>Recommended Cutting Capacity</b>				
Round tube @ 90°	5"	4¾"	4¼"	4¾"
Round tube @ 45°	4½"	4¼"	3¾"	4¾"
Square tube @ 90°	4½"	4¾"	3½"	4¼"
Square tube @ 45°	4½"	4"	3⅞"	4⅞"
Rectangular tube @ 90°	6" x 4½"	5½" x 4¾"	4⅞" x 3⅞"	5½" x 4"
Rectangular tube @ 45°	4½" x 4"	4" x 4"	3⅞" x 3"	4¼" x 4"
Round solid @ 90°	4"	2¾"	2⅞"	2⅞"
Round solid @ 45°	4"	2⅞"	2"	2⅞"
Square solid @ 90°	4"	2¾"	2⅞"	2½"
Square solid @ 45°	4"	2⅞"	2"	2⅞"
<b>Dimensions</b>				
Length x Width	40" x 50"	40" x 50"	51" x 34"	51" x 34"
Height	70"	70"	59"	59"
Net Weight	800 lbs.	900 lbs.	570 lbs.	660 lbs.
Shipping Weight	1,000 lbs.	1,100 lbs.	700 lbs.	800 lbs.

\* The CA350 will cut solid material up to 4" round and square, however, the feed rate must be reduced to avoid overloading the blade with chips and it is strongly recommended that the machine be fitted with an optional high capacity chip removal system. Please contact the factory for advice that is tailored to your particular requirements.

**Notes:**

1. Solid capacities based on mild steel.
2. When cutting stainless steel or other difficult-to-cut materials, use a blade no larger than 12½" (315mm).





# Pneumatic Vise Ferro

Manually operated saw with pneumatic vise ideal for one-off or short production runs of steel, aluminum and tubing.

## Features:

- 208/230/460/60/3 Electricals
- Totally Enclosed Fan-Cooled Motor
- Enclosed Worm Gear Drive for trouble-free Operation
- Two Speeds for Versatility
- Cast Iron Construction
- Self-Centering Vise with Angle Scale
- Head Rotates 45 Degrees left and right of Center
- Flood Coolant System (CS & FHC Models)
- Mist-matic Coolant System (CA Models)
- Heavy Duty Sheet Metal Base
- Adjustable Stock Stop (Models FHC315D & FHC350D only)
- Serrated Vise Jaws (CS)
- Tool Kit
- Circular Saw Blade
- Operation and Maintenance Manual
- Two (2) Year Limited Warranty

## Optional Equipment: (all models)

- Adjustable stock stand
- 5 foot roller stock table
- 10 foot roller stock table
- Adjustable stock stop for roller stock table

## Optional Equipment: (CS350PV & CA350PV models)

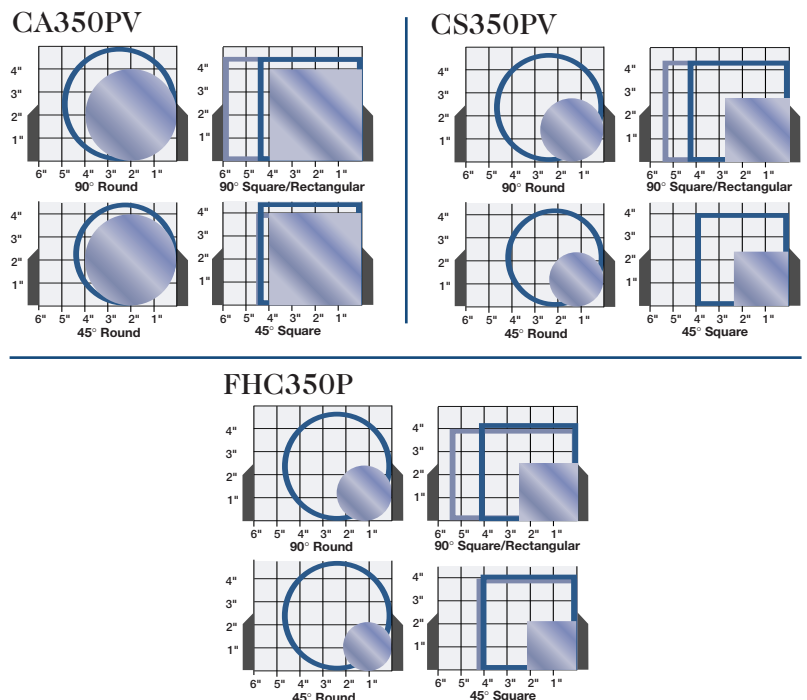
- Adjustable stock stop
- Aluminum 90° vise wear plates (CA350PV)
- Steel 90° vise wear plates (CS350PV)
- Diamond shape vise wear plates
- Speed change kit
- Powered overhead clamp (CA & CS)
- Fixture mounting table (CA & CS)
- Vacuum chip removal system (CA350PV)
- Variable vise pressure

(For part numbers see page 10)



CA350PV

## Capacity Charts



# us and Nonferrous Cutting Machines



CS350PV



FHC350P

Specification	CA350PV	CS350PV	FHC350P
Drive Motor	5 hp	1.5 hp/3 hp	2 hp/3 hp
Angles (left & right)	45°	45°	45°
Electricals	208/230v. or 460v. - 3ph	208/230v. or 460v. - 3ph	230v. or 460v. - 3ph
Control	110v.	110v.	110v.
Coolant	Standard	Standard	Standard
Spindle Speeds (rpm)	1700/3400	20/40 or 30/60	26/52
Max. Blade Size	14" (350mm)	14" (350mm)	14" (350mm)
Max. Vise Opening	6"	6"	6"
<b>Recommended Cutting Capacity</b>			
Round tube @ 90°	5"	4¾"	4¾"
Round tube @ 45°	4½"	4¼"	4¾"
Square tube @ 90°	4½"	4¾"	4¼"
Square tube @ 45°	4½"	4"	4½"
Rectangular tube @ 90°	6" x 4½"	5½" x 4¾"	5½" x 4"
Rectangular tube @ 45°	4½" x 4"	4" x 4"	4¼" x 4"
Round solid @ 90°	4"*	2¾"	2¾"
Round solid @ 45°	4"*	2¾"	2½"
Square solid @ 90°	4"*	2¾"	2½"
Square solid @ 45°	4"*	2¾"	2½"
<b>Dimensions</b>			
Length x Width	40" x 50"	40" x 50"	51" x 34"
Height	70"	70"	59"
Net Weight	900 lbs.	1,100 lbs.	680 lbs.
Shipping Weight	1,100 lbs.	1,300 lbs.	800 lbs.

\* The CA350PV will cut solid material up to 4" round and square, however, the feed rate must be reduced to avoid overloading the blade with chips and it is strongly recommended that the machine be fitted with an optional high capacity chip removal system. Please contact the factory for advice that is tailored to your particular requirements.

**Notes:**

1. Solid capacities based on mild steel.
2. When cutting stainless steel or other difficult-to-cut materials, use a blade no larger than 12½" (315mm).



# Semi-Automatic Ferro

Semi-Automatically operated saw with pneumatic vise ideal for short to medium production runs of all steel, aluminum and tubing.

## Features:

- 208/230/460/60/3 Electricals
- Totally Enclosed Fan-Cooled Motor
- Enclosed Worm Gear Drive for trouble-free Operation
- Automatic Cutting Cycle
- Automatic feed rate
- Auto Shut-off & Unclamping at end of Cut (FA, FS)
- Cast Iron Construction
- Self-Centering Vise with Angle Scale
- Head Rotates 45 Degrees left and right of Center
- Flood Coolant System (FS & FHC Models)
- Mist-matic Coolant System (FA Models)
- Serrated Vise Jaws (CS)
- Heavy Duty Sheet Metal Base
- Adjustable Stock Stop (Models FHC350SA only)
- Foot pedal cycle start (Models FHC350SA only)
- Circular Saw Blade ■ Tool Kit
- Operation and Maintenance Manual
- Two (2) Year Limited Warranty

## Optional Equipment: (all models)

- Adjustable stock stand
- 5 or 10 foot roller stock table

## Optional Equipment: (FS350SA & FA350SA models)

- Adjustable stock stop
- Aluminum 90° vise wear plates (FA350SA)
- Steel 90° vise wear plates (FS350SA)
- Diamond shape vise wear plates
- Short length stock stop (FA350SA)
- Speed change kit
- Foot pedal cycle start
- Powered overhead clamp
- Fixture mounting table
- Vacuum chip removal system (FA350SA)
- Variable vise pressure
- Variable feed pressure
- Head/vise pressure

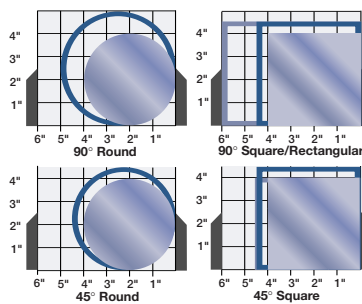
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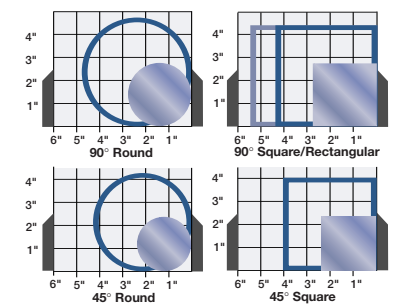
FA350SA

## Capacity Charts

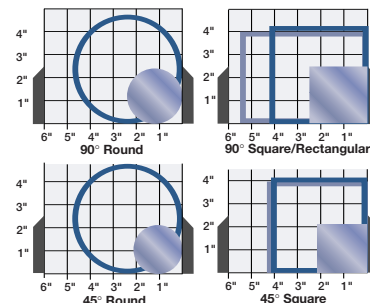
### FA350SA



### FS350SA



### FHC350SA





# us and Nonferrous Cutting Machines



FS350SA  
Shown with optional stock stop



FHC350SA

Specification	FA350SA	FS350SA	FHC350SA
Drive Motor	5 hp	1.5 hp/3 hp	2 hp/3 hp
Angles (left & right)	45°	45°	45°
Electricals	208/230v. or 460v. - 3ph	208/230v. or 460v. - 3ph	230v. or 460v. - 3ph
Control	110v.	110v.	110v.
Coolant	Standard	Standard	Standard
Spindle Speeds (rpm)	1700/3400	20/40 or 30/60	26/52
Max. Blade Size	14" (350mm)	14" (350mm)	14" (350mm)
Max. Vise Opening	6"	6"	6"
<b>Recommended Cutting Capacity</b>			
Round tube @ 90°	5"	4¾"	4¾"
Round tube @ 45°	4½"	4¼"	4¾"
Square tube @ 90°	4½"	4¾"	4¼"
Square tube @ 45°	4½"	4"	4½"
Rectangular tube @ 90°	6" x 4½"	5½" x 4¾"	5½" x 4"
Rectangular tube @ 45°	4½" x 4"	4" x 4"	4¼" x 4"
Round solid @ 90°	4"*	2¾"	2¾"
Round solid @ 45°	4"*	2¾"	2½"
Square solid @ 90°	4"*	2¾"	2½"
Square solid @ 45°	4"*	2¾"	2½"
<b>Dimensions</b>			
Length x Width	40" x 50"	40" x 50"	51" x 34"
Height	70"	70"	59"
Net Weight	1,155 lbs.	1,255 lbs.	780 lbs.
Shipping Weight	1,300 lbs.	1,400 lbs.	900 lbs.

\* The FA350SA will cut solid material up to 4" round and square, however, the feed rate must be reduced to avoid overloading the blade with chips and it is strongly recommended that the machine be fitted with an optional high capacity chip removal system. Please contact the factory for advice that is tailored to your particular requirements.

**Notes:**

1. Solid capacities based on mild steel.
2. When cutting stainless steel or other difficult-to-cut materials, use a blade no larger than 12½" (315mm).



# Automatic Ferrous

Automatically operated saw with pneumatic vise ideal for medium to large production runs of all steel, aluminum and tubing.

## Features:

- Automatic Cutting Cycle
- Automatic feed rate
- Auto Shut-off & Unclamping at end of Cut
- Automatic piece counter
- Up to 5 cut-off indexes for longer pieces
- 208/230/460/60/3 Electricals
- Totally Enclosed Fan-Cooled Motor
- Enclosed Worm Gear Drive for trouble-free Operation
- Cast Iron Construction
- Self-Centering Vise with Angle Scale
- Head Rotates 45 Degrees left and 15° right of Center
- Flood Coolant System (FS & FHC Models)
- Mist-matic Coolant System (FA Models)
- Grooved Vise Jaws
- Heavy Duty Sheet Metal Base
- Circular Saw Blade ■ Tool Kit
- Operation and Maintenance Manual
- Two (2) Year Limited Warranty

## Optional Equipment:

- Adjustable stock stand
- 5 or 10 foot roller stock table
- Adjustable stock stop
- Aluminum 90° vise wear plates (FA350A)
- Steel 90° vise wear plates (FS350A)
- Diamond shape vise wear plates
- Speed change kit
- Foot pedal cycle start
- Powered overhead clamp
- Adjustable stock stop for roller stock table
- Fixture mounting table
- Vacuum chip removal system (FA350A)
- Variable vise pressure
- Variable feed pressure
- Head/vise pressure

(For part numbers see page 10)



FS350A

Shown with optional CS7500 powered overhead clamp assemblies for bundle cutting. The head is positioned to make cuts at 90°.

## Capacity Charts

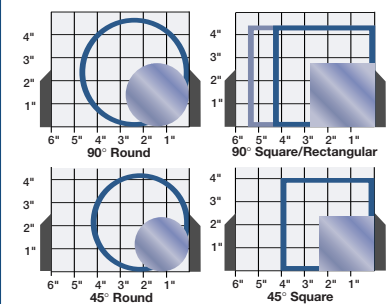


Conveniently positioned easy to operate control panel with clearly marked functions.

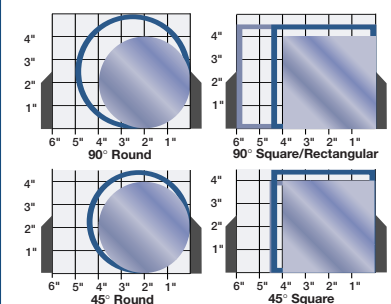


Conveniently located feed rate control allows operator to set proper feed rate for the material to be cut.

### FS350A



### FA350A





# and Nonferrous Cutting Machines



**FA350A**  
Shown with optional CS7500 powered overhead clamp assemblies and CS9001 series vacuum chip removal system. Blade rotated 45° left.

Specification	FA350A	FS350A
Drive Motor	5 hp	1.5 hp/3 hp
Angles (left & right)	45°L & 15°R	45°L & 15R
Electricals	208/230v. or 460v. - 3ph	208/230v. or 460v. - 3ph
Control	110v.	110v.
Coolant	Standard	Standard
Spindle Speeds (rpm)	1700/3400	20/40 or 30/60
Max. Blade Size	14" (350mm)	14" (350mm)
Max. Vise Opening	6"	6"
<b>Recommended Cutting Capacity</b>		
Round tube @ 90°	5"	4¾"
Round tube @ 45°	4½"	4¼"
Square tube @ 90°	4½"	4¾"
Square tube @ 45°	4½"	4"
Rectangular tube @ 90°	6" x 4½"	5½" x 4¾"
Rectangular tube @ 45°	4½" x 4"	4" x 4"
Round solid @ 90°	4"*	2½"
Round solid @ 45°	4"*	2"
Square solid @ 90°	4"*	2½"
Square solid @ 45°	4"*	2"
<b>Dimensions</b>		
Length x Width	95" x 50"	95" x 50"
Height	62"	62"
Net Weight	1,800 lbs.	1,900 lbs.
Shipping Weight	2,000 lbs.	2,100 lbs.

Stock Feeding Information	
Feed length - 1 index	17.5"
Feed length - 5 indexes	87.5"
Feeding accuracy each index	+/- .004"
Minimum feed length	1/4" std. 1/8" opt.
Stub length	7"

\* The FA350A will cut solid material up to 4" round and square, however, the feed rate must be reduced to avoid overloading the blade with chips and it is strongly recommended that the machine be fitted with a high capacity chip removal system. Please contact the factory for advice that is tailored to your particular requirements.

- Notes:**
1. Solid capacities based on mild steel.
  2. When cutting stainless steel or other difficult-to-cut materials, use a blade no larger than 12½" (315mm).



# Cold Saw Advantage



Sample of virtually "burr-free" cutting.



Clearly marked scale to help the operator set-up angle cuts with preset stops at 45° R, 45° L and 0° on manual, pneumatic vise, and semi-automatic models, 45° R, 15° L and 0° on automatic models.



KSA64 5' x 12" wide roller stock table, (KSA63 10' x 12" wide roller stock table also available).



P12 Adjustable Stock Stand. adjustment range from 37" to 46" high.



CS9052 foot pedal with cord for KALAMAZOO semi-automatic and automatic models (FS or FA350SA)



Spray mist coolant unit for FA350A SA and FA350A models. Smaller spray mist coolant units furnished with CA350 and CA350PV. Flood coolant system furnished on all steel cutting machines.

## Optional Equipment (CA, CS, FS, FA models only)

Part No.	Description	Part No.	Description
CS7000	Adjustable Stock Stop	CS9001 B	230V Vacuum Chip Removal System (1300 cfm)
CS7401	Aluminum, 90 degree Vise Wear Plate (4 required)	CS9001C	440V Vacuum Chip Removal System (1300 cfm)
CS7401S	Steel 90 degree Vise Wear Plate (4 required)	CS9052	Foot Pedal Option for SA and Auto Models
CS7404	Diamond Shape Wear Plates for CA & FA Models	P12	Adjustable Stock Stand (37"-46")
CS7404S	Diamond Shape Wear Plates for CS & FS Models	KSA64	5 Foot Roller Stock Table 12" wide
CS7450	Speed Change Kit (1700 rpm) CA & FA Machines	KSA63	10 Foot Roller Stock Table 12 " wide
CS7451	Speed Change Kit (3400 rpm) CA & FA Machines	RTS07	Adjustable Stock Stop for Roller Stock Table
CS7452	Speed Change Kit (20/40 rpm) CS & FS Models	CS6336	Overhead Roller Assembly
CS7453	Speed Change Kit (30/60 rpm) CS & FS Models	CS7300A	Variable Vise Pressure (PV, SA)
CS7500	Powered Overhead Clamp Assembly (Bundle Cutting)	CS7300B	Variable Feed Pressure (SA)
CS7600	Fixture Mounting Table Assembly	CS7300C	Dual Variable Clamp Pressure (A)
CS9001A	208V Vacuum Chip Removal System (1300 cfm)	CS7300D	Variable Head/Vise Pressure (SA)
		CS7300E	Variable Head/Vise Pressure (A)

# Blade Selection Guide

## Clausing "Worksaver" HSS Circular Saw Blades for Ferrous Cutting

Blade No.	Size		TPI	No. of Teeth	Pitch
	In.	mm			
CB99	10	250	10	320	2½
CB100	10	250	8	250	3
CB101	10	250	6	200	4
CB102	10	250	5	160	5
CB103	10	250	4	128	6
CB104	10	250	3	100	8
CB105	10	250	2½	80	10

CB98	11	275	10	350	2½
CB106	11	275	8	280	3
CB107	11	275	6	220	4
CB108	11	275	5	180	5
CB109	11	275	4	140	6
CB110	11	275	3	110	8
CB111	11	275	2½	84	10
CB122	11	275	2	70	12

Blade No.	Size		TPI	No. of Teeth	Pitch
	In.	mm			
CB112	12½	315	8	300	3
CB113	12½	315	6	240	4
CB114	12½	315	5	200	5
CB115	12½	315	4	160	6
CB116	12½	315	3	120	8
CB117	12½	315	2½	100	10
CB118	12½	315	2	80	12
CB119	12½	315	1½	70	14
CB125	14	350	8	350	3
CB126	14	350	6	280	4
CB127	14	350	5	220	5
CB128	14	350	4	180	6
CB129	14	350	3	140	8
CB130	14	350	2½	110	10
CB131	14	350	2	90	12
CB132	14	350	1½	80	14

All arbor holes 1.260" (32mm) with two pin holes. 8mm on 45mm dia. circle and with two pin holes 11mm on 63mm dia. circle and 4 pin holes 9mm on 50mm dia. circle. All blades special oxide coated for extend life. Thickness, 250 = 2.0mm, 275/315/325 = 2.5mm, 350 = 3.0mm.

## Carbide Tipped Circular Saw Blades for Aluminum and other Nonferrous Materials (FA models only)

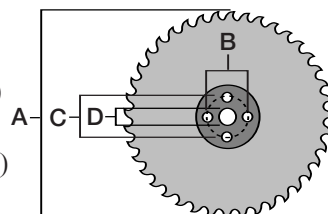
Blade No.	Diameter MM (in.)	No. of Teeth	Teeth per Inch
MB-207	350 (14)	120	3
MB-208	350 (14)	108	2.5
MB-209	350 (14)	84	1.5
MB-210	350 (14)	48	1

Our Carbide Tipped Circular Saw Blades have triple chip grinds and 32mm Arbor holes

## Clausing Worksaver

Clausing Worksaver Blades are manufactured of the finest quality M2 steel available. These high speed steel blades are oxide treated to retain strength, hardness, and facilitate coolant penetration. They have a hardness of 63-65 RC.

- A Diameter (specify)
- B Pinhole size  
8mm on 45mm center (2ea.)
- C Pinhole size  
11mm on 63mm center (2ea.)
- D 32mm



## Spindle Speed, Blade Size - Surface Feet Per Minute

Spindle RPM	20	26	30	32	40	52	60	64
Blade Size	Surface feet per minute							
315mm (12.5")	65	85	98	105	130	170	195	210
350mm (14)	72	95	108		144	190	217	

## Blade Selection

	inch	.400	.750	1.25	1.50	2.00
● Solid	mm	10	20	30	40	50
○ Tubing	wall" diameter"	.049	.083	.125	.187	.250
		3/4	1.0	1.5	2.0	2.5
WORKSAVER blades						
Teeth per inch						
8		○				
6		●	○			
5				○		
4			●		○	
3				●		○
2½					●	●

Note: At least 2-3 teeth must engage the work at all times and not more than 7.



# Clausing Service Center



## 95% of all parts orders are shipped within 24 hours!

In this modern age, of course, computers have brought exceptional speed and efficiency to our department. When a customer calls with a problem, our Customer Service Department can check stock immediately and initiate the shipping order while the customer is still on the phone. Within minutes, the parts order can be picked and delivered to the Shipping Department for packing and shipment. RUSH orders get top priority... we know our customers can't afford downtime!

## The Clausing Service Center

Only Clausing maintains a separate Service Center designed solely to support our customers' parts and service needs! Located in Goshen, Indiana, this facility has served as an invaluable resource since 1974.

## Over 50,000 Parts

With thousands of parts in our inventory, the Clausing Service Center can provide replacement parts for machines you may have purchased thirty years ago! Lathes, drill presses, sheet metal fabricating equipment... all Clausing products are backed by the friendly and resourceful staff of our Customer Service Department.

## Service

In addition to supplying the parts that keep all our customers' equipment running, the Service Center has its own staff of highly-qualified service technicians... and they're available to solve problems all across the country.

Regular service schools are conducted for dealer personnel, to review new products and to insure that each Clausing dealer has a highly-trained service staff.

At Clausing, we're committed to service after the sale... and the Clausing Service Center demonstrates that commitment. That's the Clausing Difference.

**For parts and service, please call the Clausing Service Center.**

**(574) 533-0371**

**e-mail: [info@clausingsc.com](mailto:info@clausingsc.com)**

Distributed By:



Clausing Industrial Inc.  
1819 North Pitcher Street  
Kalamazoo, Michigan 49007-1886  
Phone: 269-345-7155  
Fax: 269-345-5945  
Web Site: [www.clausing-industrial.com](http://www.clausing-industrial.com)  
Information: [info@clausing-industrial.com](mailto:info@clausing-industrial.com)