

TUBE & PIPE NOTCHERS



CREATE PERFECT NOTCHES
in just seconds using Scotchman's line of tube and pipe notching equipment. Available in both hand lever or crank wheel models, these notchers are ideal for steel and stainless steel (consult factory) tube and pipe construction, hand railings, gates and fences, race car frames and roll cages, marine arches and railing, furniture frames and stainless plumbing for restaurant and dairy. Scotchman's notching equipment requires no costly dies, hole saws, grinding wheels or torch flame cutting.

MANUAL TUBE & PIPE NOTCHERS

AL1



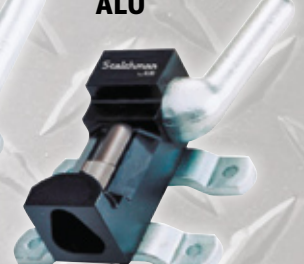
AL2



AL3



ALU



MODEL #	CAPACITY
AL1	3/4", 1" and 1-1/4" pipe
AL2	1-1/2" and 2" pipe
AL3	1-1/4" and 1-1/2" pipe
ALU	Vent notch; maximum .155" wall thickness

FEATURES

- Offer efficient and productive pipe notching at low cost
- Workpiece is quickly and accurately notched to a proper fit, eliminating costly filing and grinding operations
- Portable and easy to mount to any stationary surface
- Notch several diameters up to schedule 40 wall thickness
- Require no change-over or costly attachments
- Simply insert a pipe into the die block, utilizing an eccentric shaft and lever system, and pull the handle downward ...*a perfect notch every time!*
- The vent notching die quickly creates a uniform notch in round or square workpieces for galvanizing outflow
- 3-Year Warranty

ELECTRIC TUBE & PIPE NOTCHERS

AL1-2E



AL1-2U

Includes vent notch



DIMENSIONS & SPECIFICATIONS	
Motor	3-1/2 hp * 230v/460v * 3 HP
Weight	AL1-2E 192 lbs. (87 Kg)
	AL1-2U 203 lbs. (92 Kg)
Dimensions	30" x 13-1/2" x 11-1/2" (762mm x 343mm x 292mm)

FEATURES

- Equipped to notch 3/4", 1", 1-1/4", 1-1/2" and 2" pipe
- Units are available in 3-1/2 hp, 230 or 460 volt, 3-ph
- For galvanizing, Model AL1-2U is equipped with a vent notching die to quickly create a uniform vent-notch in round or square workpieces for galvanizing outflow
- 3-Year Warranty

Safety guards are standard with AL 1-2E and AL 1-2U models to surround and protect notching dies

CAUTION: Never operate machine without safety guards in place. Machines are depicted with safety guards

TUBE & PIPE GRINDER/NOTCHERS



AL100U-01



AL100U-02



AL150

AL100U-01 & AL100U-02

- Produces gap-free fits ready for welding
- Smooth operation with minimal vibration
- Notches via adjustments straight = 90° to 30° in tube or pipe from 3/4" to 3" diameter in seconds (reference chart on page 4 for maximum angle with maximum diameter material)
- Two axis precision crossfeed table with hand lever feed handle and manual vise adjustment left and right (AL100U-01)
- Two axis precision crossfeed table with both handwheels and hand lever feed handle. (AL100U-02)
- Heavy duty frame and base construction
- Mandrel centerline adjustment
- One vise holds all pipe and tube sizes
- Top-mounted deburring surface
- Easy setup with vise graduated in degrees
- 13 mandrels available to ensure correct gap-free fits
- 2 belts and two pipe mandrels (1-1/4" & 1-1/2")
- Tool-free belt and mandrel change over
- 3-Year Warranty

AL150

- Produces gap-free fits ready for welding
- Smooth operation with minimal vibration
- Notches via adjustments straight = 90° to 30° in pipe or tube from 3/4" to 4" diameter in seconds (reference chart on page 4 for maximum angle with maximum diameter material)
- Two axis precision crossfeed table with both handwheels and hand lever feed handle. Heavy duty frame and base construction
- Mandrel centerline adjustment
- One vise holds all pipe and tube sizes
- Top-mounted deburring surface
- Easy setup with vise graduated in degrees
- 17 mandrels available to ensure correct gap-free fits
- 2 belts and two pipe mandrels (1-1/4" & 1-1/2")
- Tool-free belt and mandrel change over
- 3-Year Warranty

**Scotchman Notchers
include a
3-YEAR WARRANTY***

*Warranty does not cover normal wear items such as belts, etc.

	AL100U-01 & AL100U-02	AL150
Dimensions	59" x 47" x 19-1/2" (1499mm x 1194mm x 495mm)	59" x 47" x 26-1/2" (1499mm x 1194mm x 673mm)
Belt*	4" x 78-3/4" (100mm x 2000mm)	6" x 78-3/4" (150mm x 2000mm)
Motor	4 HP * 230v/460v * 3ph 230v * 1ph (optional)	5-1/2 HP * 230v/460v * 3ph 230v * 1ph (optional)
Speed	3420 RPM	3420 RPM
Belt Speed	98.4 feet per second	98.4 feet per second
Grinding Capacity	3/4" to 3" O.D. (19mm to 76mm)	3/4" to 4" O.D. (19mm to 114mm)
Angle Range	Straight = 90° to 30°	Straight = 90° to 30°
Weight	419 lbs. (190 Kg) AL100U-01 463 lbs. (210 kg) AL100U-02	596 lbs. (270 Kg)

Notchers with serial numbers 0001000-0001300, 9701301-9701650 and 98011651-98011700 require 4" x 77" belts (part# GB4036).

Heavy Duty High Speed TUBE & PIPE GRINDER/NOTCHERS



Scotchman's **HSX 100 SERIES** of tube and pipe notching machines is designed and built for that large diameter pipe and stainless steel application. These robust machines grind stainless steel with a belt speed of 131.25 feet per second giving you a perfect notch without discoloration because less heat is transferred to the material; and the grinding rollers can be changed in seconds without the use of tools. Once the sections of pipe have been ground they can be deburred using the handy deburring table on the top of the machine. These high speed grinder/notchers are backed by a **3-YEAR WARRANTY** which comes standard with the machines.

HSX 100-01 & HSX 100-02

Dimensions	59" x 47" x 26-1/2" (1499mm x 1194mm x 673mm)
Belt*	4" x 78-3/4" (100mm x 2000mm)
Motor	5-1/2 HP * 230v/460v * 3ph
Speed	4200RPM
Belt Speed	131.25 feet per second
Grinding Capacity	3/4" to 3" O.D (19mm to 76mm)
Angle Range	Straight = 90° to 30°
Weight	507 lbs. (235 Kg)

FEATURES:

- Quick
- Sturdy and precise
- Ideally suited for grinding stainless steel rapidly
- Fitted with grinding rollers that can be changed in seconds
- Equipped with a handy deburring table
- User-friendly universal tubing clamp
- Suitable for grinding every required material
- Two axis precision crossfeed table with hand lever feed handle and manual vise adjustment left and right (**HSX100-01**)
- Two axis precision crossfeed table with handwheels. (**HSX100-02**)
- 2 belts and two pipe mandrels (1-1/4" & 1-1/2")
- Grind every required diameter at every required angle between straight = 90° and 30°
- Belt tension is always correct
- Change grinding belt in seconds
- Ability to perform eccentric notching
- 3-Year Warranty



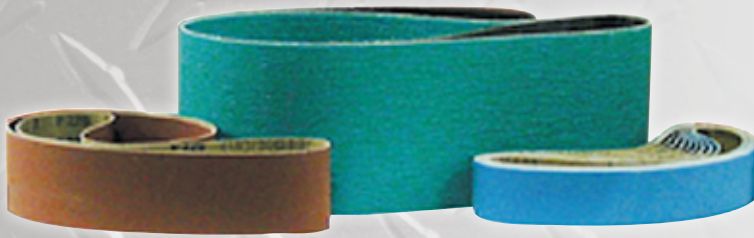
HSX100-01



HSX100-02

Pipe	Tube	Decimal Size	AL100U-01 / AL100U-02—4" Part #	HSX100-01 / HSX100-02—4" Part #	AL150 - 6"—Part #
1/2"		.840	A042.21.3	A045.21.3	A043.21.3
	1.000	1.000	A042.26	A045.26	A043.26
3/4"		1.060	A042.26.9	A045.26.9	A043.26.9
	1.250	1.250	A042.32	A045.32	A043.32
1"		1.330	A042.33.7	A045.33.7	A043.33.7
	1.500	1.500	A042.38	A045.38	A043.38
1-1/4"		1.660	A042.42.4	A045.42.4	A043.42.4
	1.750	1.750	A042.44	A045.44	A043.44
1-1/2"		1.900	A042.48.3	A045.48.3	A043.48.3
	2.000	2.000	A042.50	A045.50	A043.50
2"		2.375	A042.60.3	A045.60.3	A043.60.3
2-1/2"		2.875	A042.73.1	A045.73.1	A043.73.1
	3.000	3.000	A042.76.1	A045.76.1	A043.76.1
3"		3.500			A043.88.9
	3.500	3.500			A043.88.9
3-1/2"		4.000			A043.101.6
4"		4.500			A043.114.3

TUBE & PIPE GRINDER/NOTCHERS Belts



Abrasive Notcher Belts

PRODUCTIVITY

In most applications, abrasive belt notchers dramatically increase productivity. Unlike conventional grinding wheels, abrasive belts are self-sharpening, continuously exposing fresh cutting points. This means no more dressing or replacing expensive grinding wheels. To accurately measure productivity, divide *[belt cost plus labor plus overhead]* by *[number of parts ground]*.

METAL REMOVAL

The rate of metal removal is determined by material to be ground, belt type, belt speed (SFPM) and the amount of pressure applied during grinding. Grinding belt options are provided in the charts at right.

AL100U-01 & AL100U-02 Grinding Belts*

36 GRIT (10 Belts Per Box)

Length	4" x 78-3/4" 100mm x 2000mm
Mineral	Ceramic
Part #A044.00001	Rigid Belt for 3/4" & Larger Diameter
Part #A044.00003	Flexible Belt for 3/4" & Smaller Diameter

*Notchers with serial numbers 0001000-0001300, 9701301-9701650 & 9801651-9801700 require 4" x 77" belts (part # GB4036). All grinding belts are sold in packages of 10

HSX100-01/HSX100-02 Grinding Belts*

36 GRIT (10 Belts Per Box)

Length	4" x 78-3/4" 100mm x 2000mm
Mineral	Ceramic
Part #A044.00005	High Performance for 3/4" & Larger Diameter

AL150 Grinding Belts*

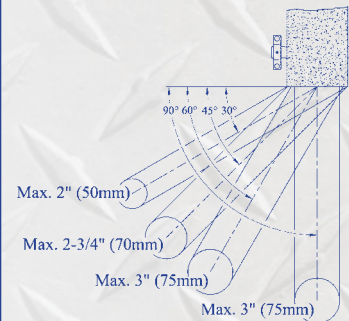
36 GRIT (10 Belts Per Box)

Length	6" x 78-3/4" 150mm x 2000mm
Mineral	Ceramic
Part #A044.00002	Rigid Belt for 3/4" & Larger Diameter
Part #A044.00004	Flexible Belt for 3/4" & Smaller Diameter

*All grinding belts are sold in packages of 10

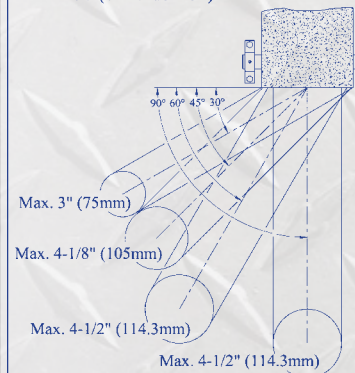
TECHNICAL DATA—4"

Maximum Notch Per Angle
AL 100 (4" Wide Belt)



TECHNICAL DATA—6"

Maximum Notch Per Angle
AL 150 (6" Wide Belt)



The Solutions **PREFERRED**
by Metal Fabricators

Scotchman Industries • 180 E. Hwy. 14 • PO Box 850 • Philip, SD 57567

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