

# ALUMINIUM CUTTING HIGH SPEED CIRCULAR SAWS

## THE AL – MACHINES

FOR PRECISION CUTS ON PROFILES AND SECTIONS

- For TCT Sawblade  $\varnothing$  350–380 mm (14"–15")
- Noise Reducing Sawblade Guards
- Manually or Air Operated Vise(s)
- Large, Adjustable Pivot Bearing
- Chip Channel in the Pivot Block

### Cutting Range:

#### Model AL 350 Mitering Machine

○	90°-45°	$\varnothing$ 120 mm (4.7")
□	90°	115 x 115 mm (4.5")
	45°	105 x 105 mm (4.2")
▭	90°	175 x 75 mm (7"x3")
	45°	130 x 75 mm (5"x3")

(Maximum dimensions without rear jaw plates.)

#### Model AL 380 Mitering Machine

○	90°-45°	$\varnothing$ 140 mm (5.5")
□	90°	125 x 125 mm (5")
	45°	120 x 120 mm (4.7")
▭	90°	175 x 90 mm (7"x3.5")
	45°	130 x 90 mm (5"x3.5")

(Maximum dimensions without rear jaw plates.)

#### AL 380/T Special Table for Large Sections:

▭	Max. 254 x 80 mm (10"x3")	straight
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#### Model AL 38 Narrow Table Design

○	140 mm (5.5")	straight
□	125 x 125 mm (5")	straight
▭	175 x 90 mm (7"x3.5")	straight

Picture shows Model AL 380, Version B ▶  
with double air vise system.

Optional equipment shown:  
24 V trigger switch, motor brake, feed restrictor,  
stand with chip tray, separate air pressure regulators, spray mist.



THE UNBEATABLE METAL CUTTING SAWS:  
DESIGNED & MANUFACTURED IN GERMANY

HÄBERLE®

## THE AL-MACHINES: HIGH-SPEED CIRCULAR SAWS FOR ALUMINIUM AND PLASTICS

For cutting tubes and profiles of soft aluminum alloys and plastics. Not suitable for cutting steel, stainless steel and hard materials.

### 3-phase Electric System:

**50 Hz Currency:** Main switch, with thermic overload protection, in Europe with undervoltage trip and 24 V trigger switch as shown.

AL 350: 3-ph. 2-speed motor 400V or 415V, 1.8/2.2 kW.

AL 380, AL 38: 3-ph. 1-speed motor 400V, 3.0 kW, motor brake.

**60 Hz Currency:** Main switch, thermic overload protection, for USA with undervoltage trip. Optional: 24 V trigger switch in the handle.

AL 350: 2-speed motor 220 V, 440 V or 575 V, 2.5/3.0 HP.

AL 380, AL 38: 1-speed motor 220/440 V or 575 V, 4.8 HP.

**High Speed Saw Head:** Triple belt drive to the sawblade. Strong main spindle. Hardened and ground pivot shaft, adjustable, with bronze bushes. Pivot block with chip chute channel.

**Machine Table:** AL 350, AL 380: Large table (620 mm), miters through 45° to both sides. Spring-loaded bolt for 0° and 45°. AL 38 with narrow table (300 mm) and material slide area to the right.

### Sawblade Sizes:

AL 350: Max. size  $\varnothing$  350 x 40 mm (14").

AL 380, AL 38: Max. size  $\varnothing$  380 x 40 mm (15").

Drive holes: 2x  $\varnothing$  12 mm on circle  $\varnothing$  64 mm.

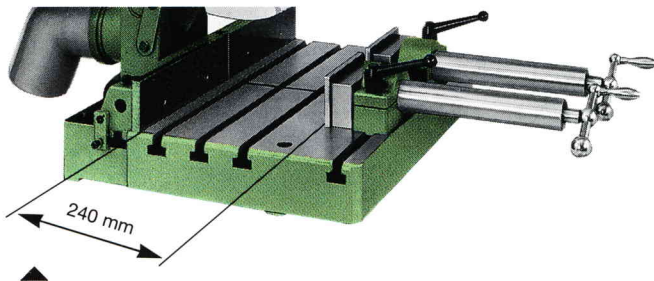
### Sawblade Speeds:

AL 350: 1500 / 3000 RPM, for HSS and TCT sawblades.

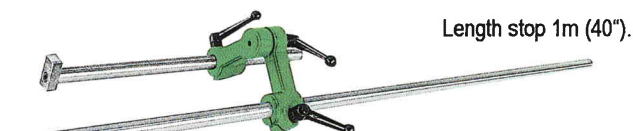
AL 380, AL 38: 2600 RPM, for TCT sawblades only.

### Sawblade Oil Lubricating Systems:

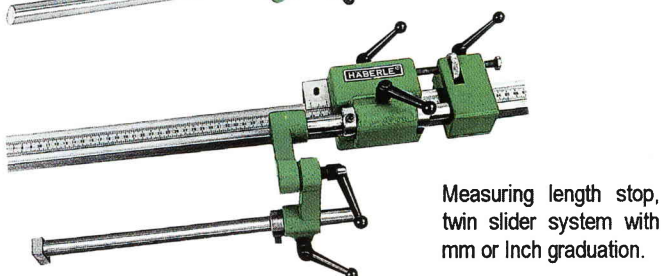
Standard with mechanical oil pump built into the saw head. Optional with uni-MAX™ spray system from UNIST INC., USA, and spray nozzle built into the sawblade guard, adjustable to the sawblade size.



**Model AL 380/T:** For straight cuts of large sections. Replaceable back fences, 4 T-shape slots in the table. Cutting range, rear jaws in place:  $\square$  240 x 80 mm (9.5" x 3") or 200 x 100 mm (8" x 4"). Max. cutting range: 254 x 80 mm (10" x 3") without rear jaw plates.



Length stop 1m (40").



Measuring length stop, twin slider system with mm or Inch graduation.

### Safety Sawblade Guard:

Totally closing 2-piece aluminium guard. Link-operated lift-up system, for best protection and fast sawblade replacement.

**Clamping:** Quick action vise with push-&-clamp system by clamp lever. AL 350, AL 380: Two movable vises.

### Version A:

Mechanical vise(s) with crank handle.



### Model AL 380 Version A

with two mechanical vises.

Motor brake available for 400 V 50 Hz only.

**Version B:** Air vise system, automatically operated by an air valve when the saw head is lifted from rest position. Cylinder  $\varnothing$  70 mm, safety stroke 8 mm (1/4"). Standard with filter regulator-lubricator. Optional with separate pressure regulators for each cylinder, installed in the machine stand (see overleaf). Required air supply: 6 bar (90 PSI).

**Model AL 38:** Narrow table with slide area to the right, for straight cuts of tubes and profiles. Double-grip vise.

### Model AL 38 Version B

with double-grip air vise.

Optional accessories shown on the picture.



### Downfeed

### Restrictor:

Optional oil cylinder for easier, safer operation of the manual machine, cares for longer sawblade life and best cutting results. Also recommended to cut solids. Free downfeed of the saw head towards the material. A lever clamped trailing block at the saw head then pulls the cylinder and allows soft touch and infinitely adjustable restriction force when cutting through the material.

**Jaw Plates:** Replaceable for profiled jaws to cut thin material. Models AL 350, AL 380: Movable rear jaw plates can be placed close to the sawblade for safe, clean cuts. The contact surface of the back fences is behind the mitering center. With graduated length stop (optional), rear jaw plates of 18 mm (0.7") thickness allow exact measuring in any mitering position.

### Dimensions and Weights: (W x L x H, table version)

AL 350: 0.6 x 1.0 x 1.0 m (2' x 3' x 3') 130 kg (300 lb.)

AL 380: 0.6 x 1.0 x 1.0 m (2' x 3' x 3') 140 kg (320 lb.)

AL 38: 0.4 x 0.9 x 1.0 m (1.5' x 2.7' x 3') 120 kg (280 lb.)

**Standard Equipment:** Mechanical vise(s), main switch, mechanical oil pump, operating keys, English manual, parts list.

**Optional Equipment:** Sawblade, air vise(s), spray mist, feed restrictor, stand for material level 920 mm, length stop, roller tables.