



MADE IN GERMANY

COMPOUND ANGLE SAWING MACHINE



Two-ways mitering for compound angle cuts



Head tilts 0° - 90° for notching cuts



Vise placed for slitting cuts

MODEL H 90

- ◆ 350 mm (14") saw blade
- ◆ 180 mm (7") jaw opening
- ◆ Saw head tilts 0° - 90°



Compound angle cuts, notching, acute angles, slitting of tube, sections or channels of steel, stainless steel and nonferrous metals. Useful in vehicle construction, steel shaping and glass construction (diagonal compound cut)

HABERLE H 90 - THE SUPERIOR CIRCULAR COLD SAW

2-PIECE SAFETY GUARD of aluminum covers the whole saw blade in rest position. Multiple latch linkage with quick release knob for easy and fast saw blade replacement without removing the guards.

PRECISION WORM & WHEEL DRIVE with hardened and ground worm shaft, special bronze worm wheel and a main spindle of 70 mm (2.7") dia. running in oil. Elastic coupling between motor and gears.

TILTING SAW HEAD allows vertical mitering 0°-90° to the right side. The vise in place, it allows compound angles with tilted head 0°- 45° and mitered vise 0°- 60° according to the 1°- graduations. Quick adjustment by clamp levers without tools. Safe handling of the rigid moving head. Large tilting block for exact angle cuts. Double yoke pivot, adjustable.

MITERING & MOVING VISE allows horizontal angle cuts 0°- 60°. Positive lock by spring-loaded pin in straight and 45° position. To meet the total cutting range of the saw blade, the mitering vise can be moved backwards. For notching and slitting cuts, the vise can be removed and placed to the left side.

NOTCHING CUTS WITH 90° TILTED HEAD: The vise placed to the left side, the saw head can be tilted vertical up to 90° for notching cuts into channels and T-size profiles. The spring-loaded saw head movement enables exact cuts.

SLITTING CUTS IN DOOR FRAMES: The vise replaced to the left side, it allows also parallel slits by the positive 90° locking. All adjustments are done by clamp levers without tools.

MATERIAL SUPPORT BLOCK on the left side of the table, supports the cut-off piece for safe straight and mitre cuts. The block can be moved when the tilted head makes it necessary and removed to replace the vise to the left side.

SPECIAL APPLICATIONS Total altitude between table and saw blade is 210 mm (8.3") and allows various clamping devices for many purposes, usually done on a milling machine, like slitting of bolts etc.

FREE ADJUSTABLE TURN TABLE allows always the same direction of the material feed-in. After mitering adjustment, turn the whole machine into position.

SAW BLADE SIZE H.S.S. 350x40 mm (14"); 325x40 mm (13"); 300x40 mm (12"). Two drive holes 11 mm on circle 64 mm dia. Segmental blades are not recommended, they can overstress the machine. Use the right rake angle: 16°-18° for steel and stainless steel, 22°-25° for soft aluminum alloys.

SAW BLADE SPEED AND MOTOR POWER

60 Hz: 54/108 RPM, 2.2/2.7 kW (3.0/3.6 HP)

60 Hz: 27/54 RPM, 1.2/2.4 kW (1.7/3.3 HP)

High speed for thin mild steel sizes and non-ferrous metals.

Medium speed for all kind of mild steel, also thin-walled stainless steel.

Slow speed for thick stainless steel sizes

CUTTING RANGE	90°	45°	60°
Round tube O.D.	115 mm - 4.5"	110 mm - 4.3"	100 mm - 3.9"
Square tube	105 mm - 4.1"	100 mm - 3.9"	95 mm - 3.7"
Flat profile	180x70 mm - 7.1"x2.8"	160x70 mm - 6.3"x2.8"	120x70 mm - 4.7"x2.8"
Channel, girder	150x80 mm - 6"x3.2"	140x80 mm - 5.5"x3.2"	100x65 mm - 4"x2.6"
Solid mild steel	60 mm - 2.5" with sawblade 300 mm, coarse toothing 90° cut		
Solid Stainless Steel	50 mm - 2" with sawblade 300 mm, coarse toothing 90° cut		

WATER COOLANT SYSTEM with large coolant tank and chip container in the base. Reliable diaphragm coolant pump for water emulsions. Optional: Low-consumption cutting oil lubricating system or air operated oil spray system available.

ELECTRICAL EQUIPMENT 3-phase (220 V, 460 V, or 575 V), 2 speed motor. Main switch with motor protection.

AIR OPERATED VISE SYSTEM with vise cylinder 160 mm (6.3") dia., automatic stroke 8 mm (0.3"), air pilot valve, front regulator and filter-lubricator. Clamping is actuated when the saw head is moved from rest position by operating handle. necessary air supply: 6 bar (90 PSI).

DIMENSIONS AND WEIGHT (W x L x H) 700x1200x1900 mm (28"x47"x75"), approx. 320 kg.

STANDARD EQUIPMENT Grease gun, wrenches, operating manual, quick-action mechanical vise, coolant system, 24 Volt stop & go switch, 1 H.S.S. saw blade, coolant fluid

OPTIONAL EQUIPMENT Air vise system, length stop, oil lubricant systems, saw blade, coolant fluid, oil spray system.

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