

PISTORIUS

MACHINE CO., INC.

PRECISION DOUBLE MITER CUT-OFF SAWS

FOR: ALUMINUM, WOOD, PLASTICS & FIBERGLASS*

17 Models available to suit most mitering or notching applications. A wide range of accessories allows you to customize any model to perfectly suit your specific applications.

DESCRIPTION

The principle of the design of Pistorius double miter saws is to simultaneously cut a left and right miter with each cycle of the machine. Sawhead movement is achieved either by large diameter precision pivot ball bearings or linear ball bearings depending on the model. These machines cut two 45 degree miters in the same length of time that one is made in single cut-off machines.

With proper tooling, perfect miters can be achieved repeatedly. Cuts are consistently clean without tearout or burrs. Length measurements are accurately made for either outside "tip-to-tip", inside, or rabbet, with our selection of gage accessories as shown on pages 12 to 15.

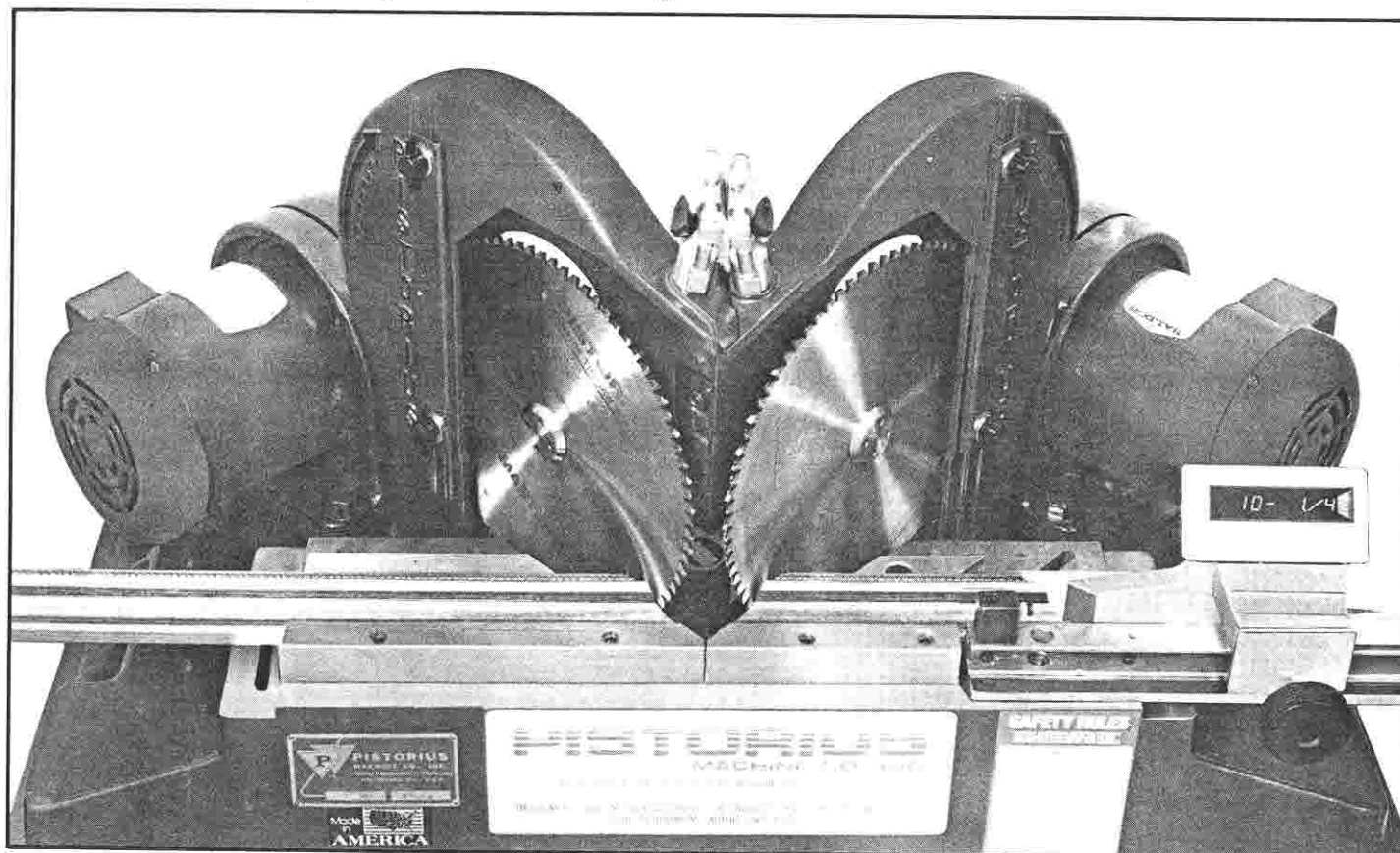
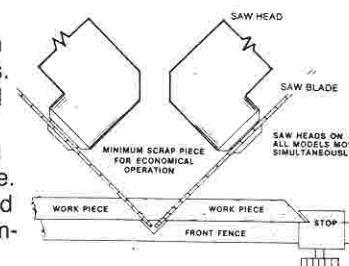
Performance is vibration free and pieces are cut to smooth mill-like finishes if proper tooling is utilized. Close tolerances are consistently maintained even during high speed semi-automatic operation.

With Pistorius you can also count on support for dust collection, sawblade resharpening, replacement parts and service as well as the availability of machinery for secondary operations involving miter joining, drilling, routing, milling and PVC thermal welding, etc.

OPERATION – SAWBLADE ARRANGEMENT

Illustrated at right is the fence and sawblade arrangement standard on all non-staggered models. The work fence is located in a fixed position at the front of the table assuring a minimum of scrap waste. Sawblades extend beyond the fence line, cutting completely through material.

Both sawblades are activated simultaneously so that with each cycle of the machine two miters are completed. Fences are mounted in a keyway machined into the table, making it quick & simple to change fences or special support fixtures at any time without losing alignment with the sawblades. Reverse fences are also available for special applications. The machine table is provided with cast slots for mounting fixtures or special attachments.



Model MN- 200 pneumatically operated machine shown cutting prefinished wood moulding. With front safety guard removed for illustration purposes. Machine cuts equally well on aluminum extrusions, PVC vinyl extrusions, soft or hard woods & most plastics. Always use Pistorius precision made, job matched Mitermaster® carbide sawblades (optional). Optional #9G Digi-Miter™ gage shown. Other available gaging systems are shown on pages 12 to 15.

* NOTE: When cutting fiberglass pultrusions, special tooling and enhanced dust collection modifications are required. Call for more information.

PRECISION DOUBLE MITER CUT-OFF SAWS

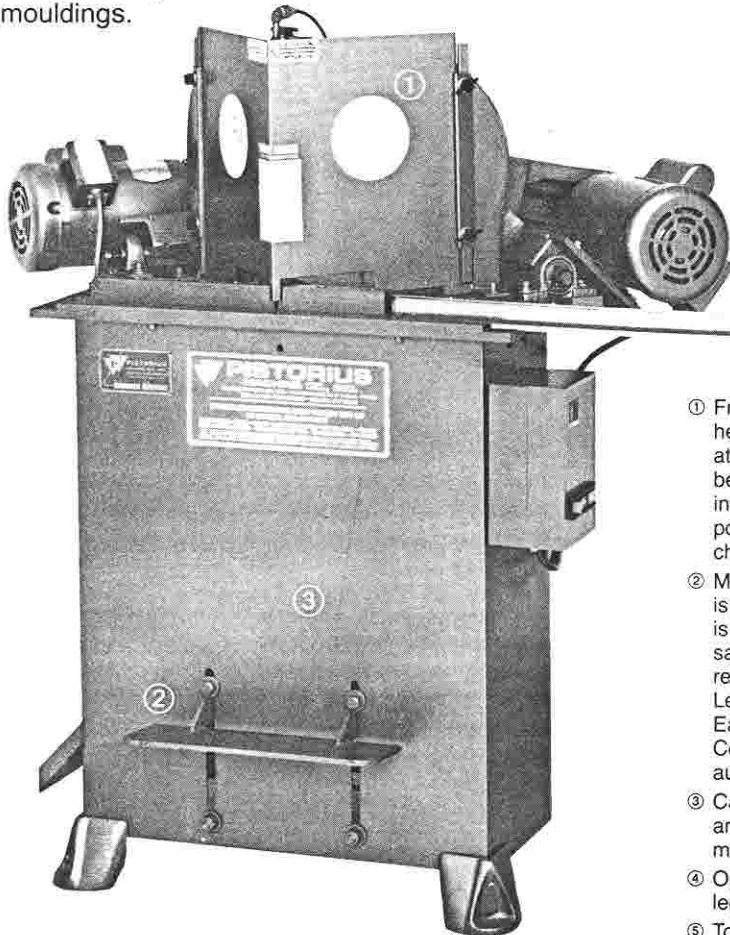
MODELS EMN-12 AND EMN-14, FOOT OPERATED PRECISION DOUBLE MITER CUT-OFF SAWS

Extremely versatile. Sawblades will cut nearly any material in one cycle of the sawheads, not repeated chopper-like passes. Each cut is a finish cut suitable for assembly. No material supports are necessary since no pressure is exerted against the work piece. Will easily cut any flat shape, and with fixturing will handle small reverses and shell-type mouldings.

FEATURES

- 230 volt, 1 phase electrics standard. No expensive electrical installation required.
- Simple and effortless to use. Unskilled men or women become quite efficient and accomplished in operating this machine.
- Side scrap discharge chute keeps scrap away from operator. Simple disposal into container.
- Machine is virtually maintenance free, eliminating costly downtime. Keeping blades sharp is your only requirement for continuous trouble-free operation.
- Complete line of gages and quality carbide sawblades available.
- No compressed air required.

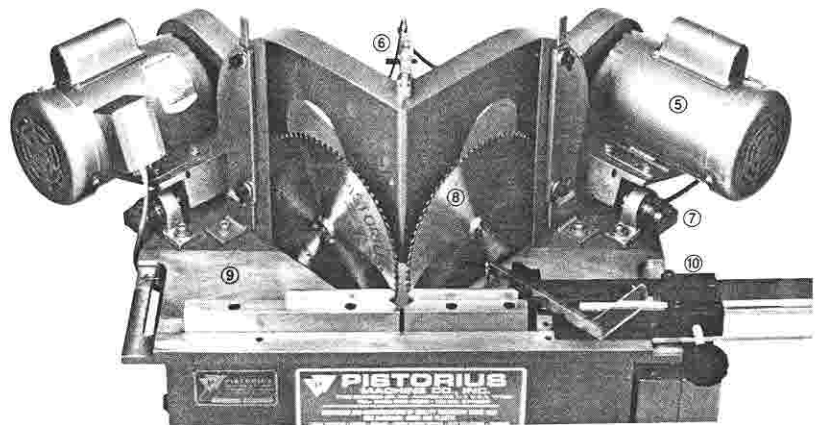
MODEL EMN-12 shown with optional #7G Mittersize™ gage and optional spray mist system.



- ⑦ Sawhead chamber adjustment.
- ⑧ Optional precision made, job matched carbide sawblades to suit your specific applications. See page 7.
- ⑨ Precision ground 1" steel plate work table.
- ⑩ Optional Mittersize™ gage shown is designed to provide rabbet measurements for picture frames. Many other gages are available. See pages 12 to 15 for further details.

Pistorius machines are built to last. Extra heavy duty cast iron and steel construction throughout. Beautiful, precision miters. Generally will cut chip-free compo or jesso covered ornate mouldings and high-pressure laminated mouldings. Machine will provide equally good cutting performance on aluminum, wood and plastic extrusions.

- ① Front safety guard is constructed of heavy gage steel for maximum operator protection. Machine should never be operated without the safety guard installed and adjusted to its lowest position. Safety guard is removable to change sawblades.
- ② Manual operation via foot pedal which is only 12" off the floor. Only 7" of travel is necessary to complete stroke of sawblades. No heavy pressure is required, sawblades do all the work. Leaves hands free to hold material. Easy to regulate speed of cutting. Counterbalanced sawheads return automatically.
- ③ Cabinet type stand, improves appearance and helps keep dust to a minimum.
- ④ Optional "foot" for adjustable support leg, allows bolting to floor if desired.
- ⑤ Totally enclosed fan cooled ball bearing motors.
- ⑥ Optional sawblade lubrication system for lubricating sawblades when cutting aluminum. System requires an external source of compressed air.



Shown with front safety guard removed for illustration purposes.

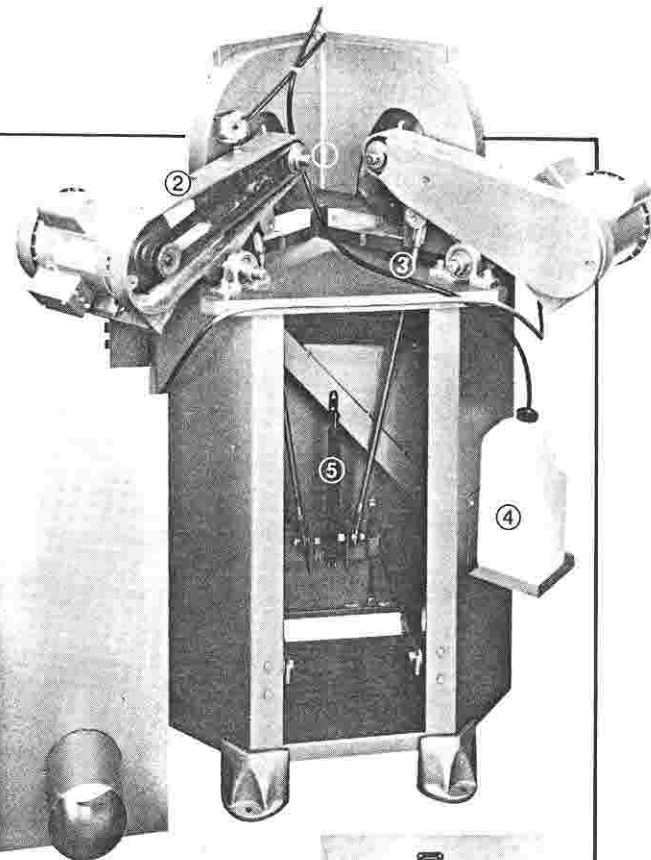
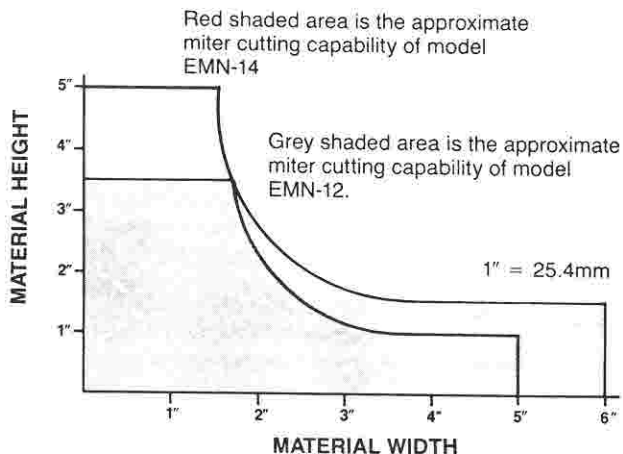
Offers big machine production at a price that even the smallest shops can afford.

TYPICAL USES

- Custom picture frames
- Aluminum store fronts
- Silk screen frames
- Do-it-yourself frame shops
- Custom sign shops
- Replacement windows and doors
- Occupational training schools
- Bath & shower enclosures
- Sheltered workshops
- Glass & mirror shops
- Patio-porch & deck enclosures
- Woodworking shops
- Display manufacturers
- Custom craft hobby shops

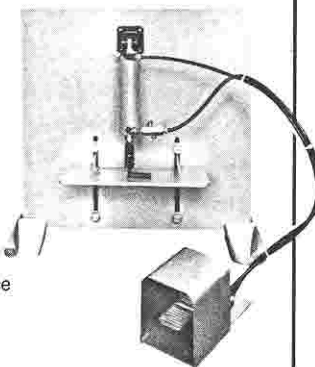
- ① Precision ball bearing spindle driven by a single Poly-Vee belt and matching pulleys. Poly-Vee belts run smooth and quiet. High quality cuts require minimum vibration. Spindle bearings are available in cartridge form and are simple to remove and replace if necessary.
- ② Shown with belt guard removed for illustration purposes. Machine should never be operated with any guards removed.
- ③ Interconnected link arms assure simultaneous cutting and are provided with self aligning bearings at both ends.
- ④ One gallon translucent bottle for optional Venturi Type spray mist system.
- ⑤ Adjustable flow hydraulic cylinder controls speed of sawhead return.
- ⑥ Optional sawdust exhaust duct is provided with a single 5" outlet. For proper dust collection a minimum of 850 CFM air volume is required. For further information on dust collection devices see Pistorius bulletins V & TC, illustrating and describing low cost vac units and high efficiency centrifugal separators.

Cutting capacity chart for models EMN-12 and EMN-14 only. The chart illustrates the actual miter cutting capacity for varying heights and widths of material.



MODEL EMN-12 shown with optional spray mist system.

Optional pneumatic power feed kit includes air cylinder with mounting clevis, flow control hoses, fittings and foot pedal. Requires an external source of compressed air. Unit can be factory installed, or simply installed at a later time by drilling six clearance holes in the cabinet and foot treadle.

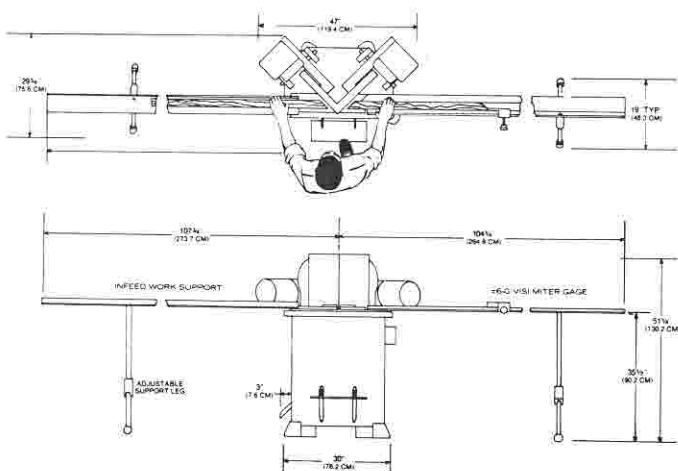


SPECIFICATIONS

MODEL	EMN-12	EMN-14
Miter Cutting Capacity	See cutting capacity chart	
Standard Motor	1 Horsepower	2 Horsepower
Electrics	208/230 volt, 1 phase, 60 cycle, 3450 RPM, totally enclosed, fan cooled, capacitor start induction run motor. When run at 50 Hz, motor RPM is reduced to 2950.	
Amps (total)		
208 / 1 / 60	14.3	26.4
230 / 1 / 60*	13.0	24.0
208 / 3 / 60	7.1	12.3
230 / 3 / 60	6.4	11.2
460 / 3 / 60	3.2	5.6
220 / 1 / 50	12.2	22.4
575 / 2 / 60	2.6	4.5
380 / 3 / 50	3.4	6.8
240 / 3 / 50	5.6	11.2
415 / 3 / 50	1.6	3.2

*Standard motor supplied with machine.

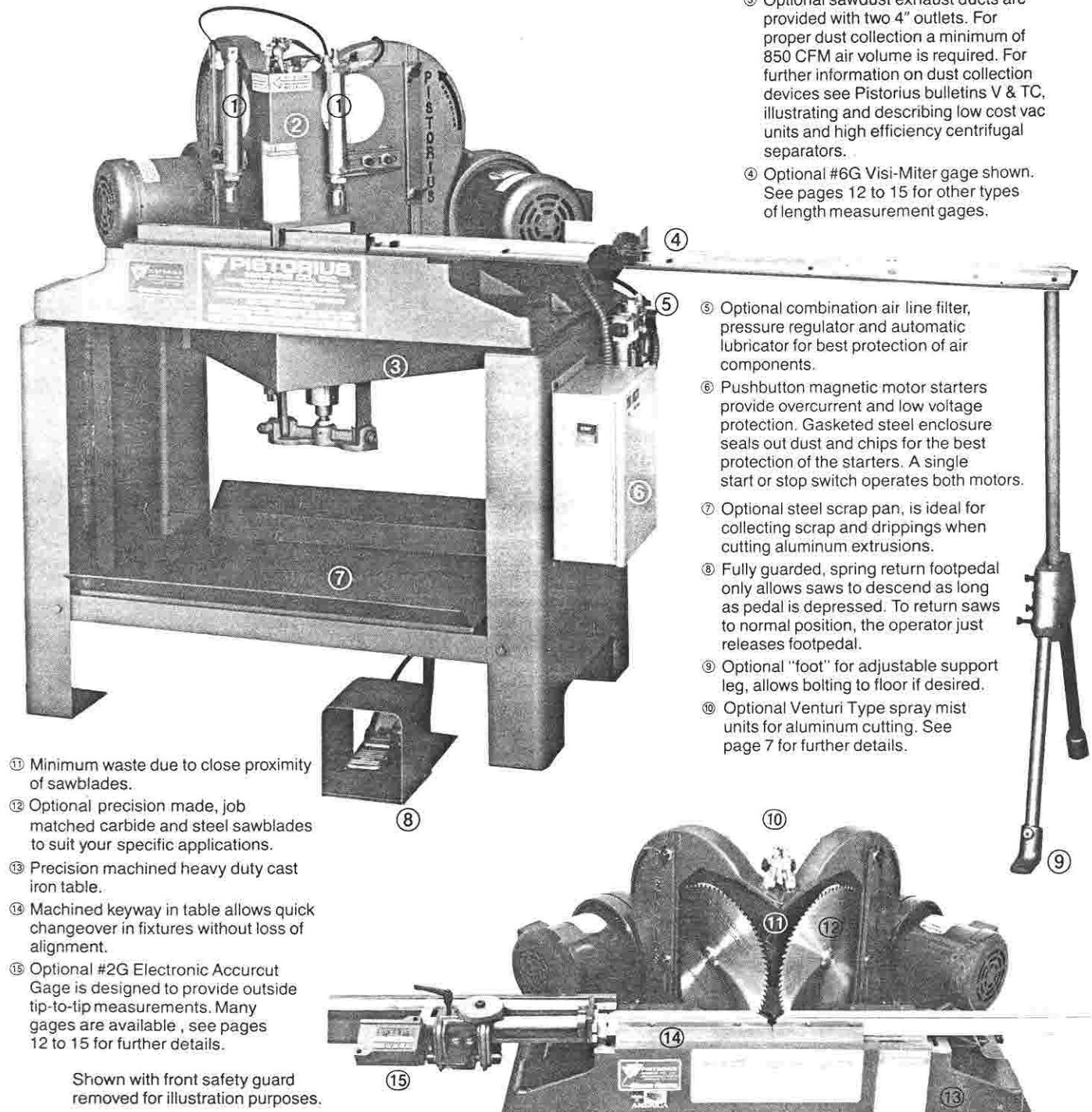
Switch	Pushbutton manual starter with under voltage protection, functions to start, stop and protect the motors against overload.	
Drive	Single poly-vee belt with matching pulleys on motors & spindles.	
Arbor	5/8" (15.88mm standard)	
Sawblade Capacity (sawblade is not included)	12"	14"
Sawdust Exhaust	One 5" OD (127mm) outlet requires approximately 850 CFM.	
Air Consumption (with optional air feed kit)	72 CFM at 65 PSI based on 15 cycles per minute (1/4" air line minimum.)	
Air Pressure	65 PSI (4.5 bar) only needed for air operated options.	
Weight (without accessories)		
Crated (domestic)	410 lbs. (186 kg)	505 lbs. (229 kg)
Crated (export)	435 lbs. (198 kg)	530 lbs. (241 kg)
Uncrated	310 lbs. (141 kg)	405 lbs. (184 kg)
Table Height (from floor & without skids)	35 1/2" (902mm)	36" (914mm)
Actuation	Manual footpedal with counterbalanced automatic return with hydraulic dampening.	
Production Rate	Actual production rates vary with material profile, type of material and size of frame being cut. Cutting cycle time is typically 4 to 6 seconds.	



PRECISION DOUBLE MITER CUT-OFF SAWS

MODELS MN-100, 200, 300, HEAVY DUTY . PNEUMATIC PIVOT HEAD MODELS. FOR HIGH SPEED, SEMI-AUTOMATIC PRODUCTION.

Designed and constructed to withstand continuous day-in day-out high speed production, these models are built with the finest craftsmanship and components available today. For the ultimate in versatility and efficiency, a full line of accessories are available. Machine is virtually maintenance free, eliminating costly downtime. Keeping blades sharp is your only requirement for continuous trouble-free operation.



- ① Minimum waste due to close proximity of sawblades.
- ② Optional precision made, job matched carbide and steel sawblades to suit your specific applications.
- ③ Precision machined heavy duty cast iron table.
- ④ Machined keyway in table allows quick changeover in fixtures without loss of alignment.
- ⑤ Optional #2G Electronic Accurcut Gage is designed to provide outside tip-to-tip measurements. Many gages are available, see pages 12 to 15 for further details.

Shown with front safety guard removed for illustration purposes.

Pistorius machines are built to last. Extra heavy duty cast iron and steel construction throughout.

- ① Optional pneumatic hold down clamps. Available for vertical use as shown or special horizontal mounting for specific applications. Supplied with shut-off cock and soft face replaceable rubber clamp pads.
- ② Front safety guard is constructed of heavy gage steel for maximum operator protection. Machine should never be operated without the safety guard installed and adjusted to its lowest position. Safety guard is removable to change sawblades.
- ③ Optional sawdust exhaust ducts are provided with two 4" outlets. For proper dust collection a minimum of 850 CFM air volume is required. For further information on dust collection devices see Pistorius bulletins V & TC, illustrating and describing low cost vac units and high efficiency centrifugal separators.
- ④ Optional #6G Visi-Miter gage shown. See pages 12 to 15 for other types of length measurement gages.

- ⑤ Optional combination air line filter, pressure regulator and automatic lubricator for best protection of air components.
- ⑥ Pushbutton magnetic motor starters provide overcurrent and low voltage protection. Gasketed steel enclosure seals out dust and chips for the best protection of the starters. A single start or stop switch operates both motors.
- ⑦ Optional steel scrap pan, is ideal for collecting scrap and drippings when cutting aluminum extrusions.
- ⑧ Fully guarded, spring return foot pedal only allows saws to descend as long as pedal is depressed. To return saws to normal position, the operator just releases foot pedal.
- ⑨ Optional "foot" for adjustable support leg, allows bolting to floor if desired.
- ⑩ Optional Venturi Type spray mist units for aluminum cutting. See page 7 for further details.

Model MN-200 pneumatically operated machine shown cutting PVC vinyl window sash extrusion with front safety guard removed for illustration purposes. Optional left hand mounted #2G Electronic Gage is shown.

FEATURES

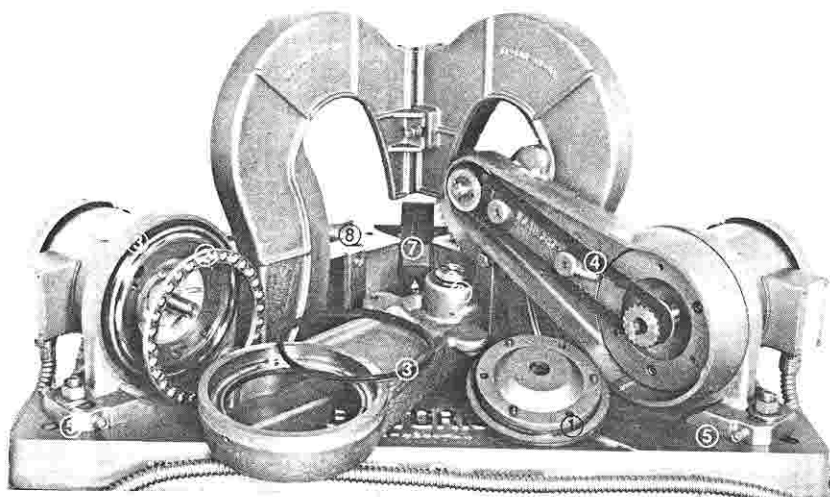
- Designed for the production oriented operation when compressed air is available
- Compressed air does all the work and allows for high speed cycling on a continuous basis.
- Ideal for all types of flat and compound miter cutting.

TYPICAL USES:

- Advertising display frames
- Solar panels
- Clocks
- Shower enclosures
- Outside aluminum storage sheds
- Door lites
- Sliding patio doors
- Picture & mirror frames
- Vinyl & aluminum windows & doors
- Kitchen cabinet doors
- Plastic & aluminum skylights
- Photo frames
- Chalk boards
- Needlepoint frames
- Schedule & bulletin boards
- Medicine cabinet doors
- Architectural sash
- Portable offices & trailers
- Game tables
- Telephone booths
- Greenhouses
- Outside service windows
- Curtain walls
- Ventilators & grills.

SPECIFICATIONS

Miter Cutting Capacity	Model MN-100 2 5/8" (67 mm) wide x 2 5/8" (67 mm) high Model MN-200 3 5/8" (84 mm) wide x 2 5/8" (67 mm) high Model MN-300 4" (102 mm) wide x 2 5/8" (67 mm) high
NOTE: When cutting narrow material that is higher than the capacities listed above, additional capacity is available. When cutting to the full width capacity listed, some height cutting capacity is lost. For actual cutting charts and specifications please contact the factory.	
Motor	1 1/2 horsepower, 208-230, 460 volt, 3 phase, 60 Hz, 3600 RPM totally enclosed fan cooled, constant torque. When run at 50 Hz RPM is reduced to 2950. Note: Standard motors will run at 208 volts or up to a 10% variation from rated voltage.
Drive	Non slip timing belts
Amps	Total 1 1/2 HP-208 volts, 3 phase, 60 Hz-10.0 1 1/2 HP-230 volts, 3 phase, 60 Hz- 8.7 1 1/2 HP-460 volts, 3 phase, 60 Hz- 4.4 1 1/2 HP-240 volts, 3 phase, 50 Hz-11.0 1 1/2 HP-230 volts, 1 phase, 60 Hz-20.0 1 1/2 HP-220 volts, 1 phase, 50 Hz-22.0 1 1/2 HP-380 volts, 3 phase, 50 Hz- 5.3 1 1/2 HP-575 volts, 3 phase, 60 Hz- 3.5 3HP-230 volts, 3 phase, 60 Hz- 7.4 3HP-460 volts, 3 phase, 60 Hz- 3.7
Switch	*Standard motor supplied with machine. IEC size A, magnetic starters mounted in a common NEMA 12 dust tight enclosure with recessed start switch and extended stop switch. Control circuit operates on 24 volt and a pilot light indicates the machine is running.
Arbor	5/8" (15.88 mm) standard.
Blade Capacity (sawblade not included)	MN-100-10" OD (254 mm) MN-200-12" OD (305 mm) MN-300-14" OD (356 mm)
Sawdust Exhaust (optional accessory)	Two 4" OD. Requires approx. 400 CFM per outlet.
Air Consumption (3/8" air line minimum)	1.5 CFM at 65 PSI based on 15 cycles per minute.
Air Pressure	65 PSI 4.5 (BAR)
Weight	Without accessories or gages
Crated (domestic)	651 lbs.-(296 kg)
Crated (export)	676 lbs.-(307 kg)
Uncrated	551 lbs.-(250 kg)
Table Height	35 1/2" from floor (902 mm)
Actuation	Air valve, fully guarded, foot operated, spring return.
Production Rate	Up to 60 cycles per minute with infinite feed control. Actual production rate varies with requirements of specific application.

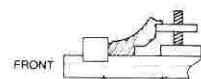


- ① Phenolic faced head retainer provides 360 degree surface contact area. Simple adjustment assures perfect sawhead tracking and movement.
- ② Exclusive 8" diameter hardened and ground ball thrust bearing sawhead pivot. This high quality, precision made bearing assures precise sawblade movement through its arc of travel.
- ③ Full 360 degree rubber seal helps keep dust and chips out of pivot mechanism.
- ④ Heavy duty cog type, positive non slip timing belt drive.
- ⑤ Fine micrometer miter angle adjustment (within 2 degree range) for perfect miter angle settings.
- ⑥ Double ball bearing saw spindles are available in cartridge form and are simple to remove and replace if necessary.
- ⑦ Optional phenolic scrap support and fence insert provides support for delicate prefinished materials such as high pressure laminated mouldings. Phenolic back ups provide support to reduce or eliminate chipping or tearout.
- ⑧ Linkage arms are fitted with self lubricating oilite bushings at each end. Both sawheads move simultaneously by interconnected linkage.

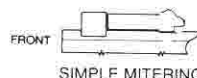
Shown with belt guard removed for illustration purposes. Machine should never be operated with belt guard or front cover removed. See page 6 for premium option.



COMPOUND ANGLE MITERING



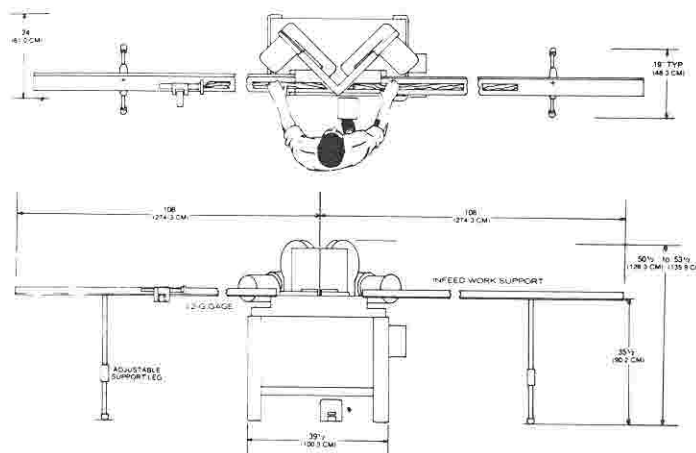
ADJUSTABLE SUPPORT



SIMPLE MITERING



EXTRUSIONS WITH SUPPORTING FIXTURE BLOCKS



OPTIONAL SAWHEAD ASSEMBLY

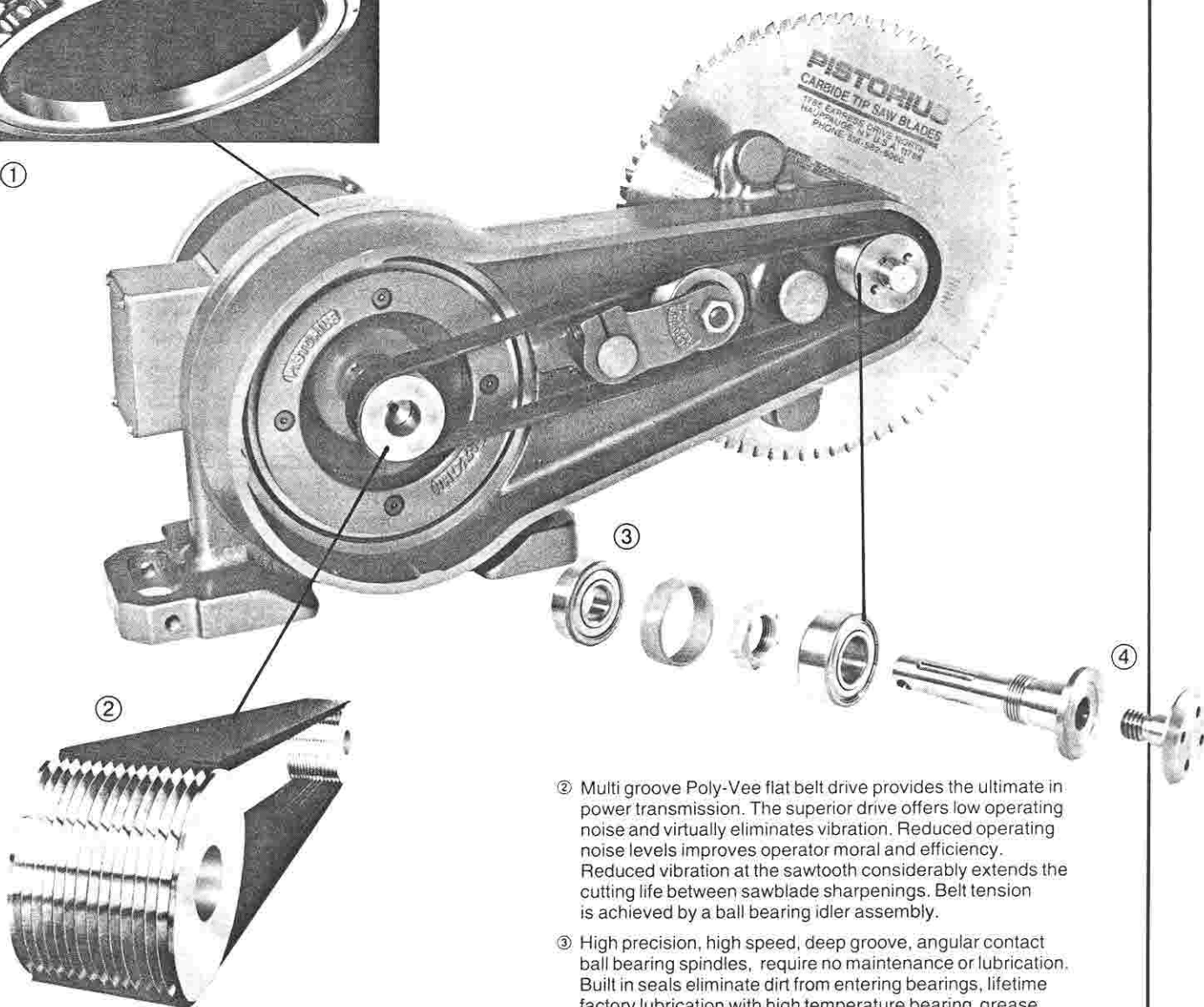
OPTIONAL "THK" SYSTEM PREMIUM FEATURES AVAILABLE FOR PIVOT TYPE MODELS MN-100, 200 300, 101, 201 AND 301 ONLY. THESE FEATURES ARE STANDARD ON VERTICAL TYPE MODELS MN-102, 202 AND 302.

DESCRIPTION

The "THK" System is a combination of the most advanced components available today for precision pivot movements. These items are commonly used in high precision machines and robotics. Ideal when the machine is intended for use for high precision or high production mitering, particularly of prefinished materials and when cutting highly degrading materials such as multi density fiberboard, compo/jesso, PVC, fiberglass, etc.



①



① State-of-the-art, large diameter, sawhead pivot bearing is a highly compact rigid bearing, incorporating rollers(not balls) which are arranged crosswise. The bearing design eliminates backlash, roller skew and virtually eliminates friction ensuring a smooth cutting action. The bearing is factory preloaded eliminating the need for any wear adjustments and is equipped with built in seals to keep out all foreign matter, and is lifetime factory lubricated. The unique cross roller design provides superior tracking of the sawheads for the ultimate in cutting quality and requires absolutely no maintenance.

② Multi groove Poly-Vee flat belt drive provides the ultimate in power transmission. The superior drive offers low operating noise and virtually eliminates vibration. Reduced operating noise levels improves operator moral and efficiency. Reduced vibration at the sawtooth considerably extends the cutting life between sawblade sharpenings. Belt tension is achieved by a ball bearing idler assembly.

③ High precision, high speed, deep groove, angular contact ball bearing spindles, require no maintenance or lubrication. Built in seals eliminate dirt from entering bearings, lifetime factory lubrication with high temperature bearing grease prevents over or under lubrication. Smooth, quiet running balls and built in double seals greatly extend bearing operating life.

④ Precision CNC manufactured saw spindles offer wide bearing spread for increased stability. Close tolerance machining assures virtually no sawblade runout and improved cutting results. Bearings are oil heated and installed on spindles to avoid damage to bearing races. After installation of bearings, spindle face is ground true with bearing alignment.

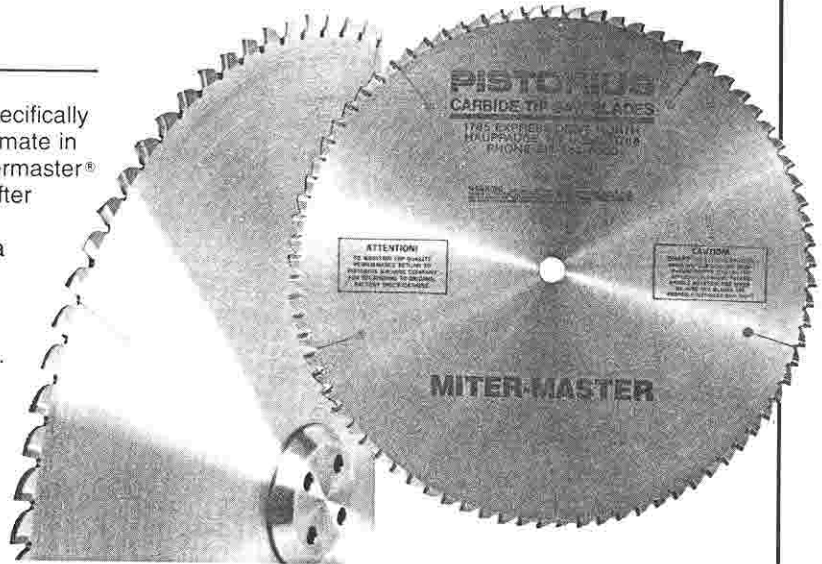
PISTORIUS CARBIDE SAWBLADES/ PROTEX LUBRICATION SYSTEM

MITERMASTER® JOB MATCHED CARBIDE TIPPED SAWBLADES ALWAYS RIGHT FOR YOUR MITERING APPLICATIONS

DESCRIPTION

Pistorius Mitermaster® carbide tipped sawblades are specifically designed and precision manufactured to provide the ultimate in cutting quality and performance on most materials. Mitermaster® sawblades when properly maintained will give you cut after cut of chip free, smooth as glass results. Easily cuts hardwoods, PVC, lacquered mouldings, aluminum, mica laminated mouldings, etc.

We offer a full line of custom designed, job matched carbide tipped sawblades, specifically designed for use on Pistorius machinery and other similar equipment. Over 25 years of use have proven these blades to be an extremely valuable investment. Diamond wheels are also available for mitering fiberglass pultrusions. Call for further information.



PROFIT STRETCHING AND QUALITY DESIGN FEATURES OF MITERMASTER® SAWBLADES

- Hard carbide teeth are sharper and retain sharpness longer, thereby allowing longer blade life between sharpenings.
- Long carbide tips allow for many resharpenings before retipping is necessary.
- Soft steel body will not crack or shatter like steel blades.
- Carbide saws run extremely true and rarely require retensioning. All sawblades are dial indicated and tensioned to a maximum runout of .002".
- Specially ground radial taper clearances insure scrap piece drop away without binding and sawblade retraction without back cutting.
- Tooth design is engineered to the specific cutting requirements and the geometry of the sawblade arc of movement.
- Large tooth gullets are designed for rapid, efficient chip removal.
- Plugged expansion slots provide for quiet operation.
- Tooth designs to suit the material that you are cutting, not universal design.
- Your Pistorius sawblade is an ultra-precision tool, manufactured under stringent quality control standards, to give you the best performance possible. To protect your sawblade investment we recommend they receive the best possible resharpening service to identical, original specifications. If local sharpening services are not available or capable of handling Pistorius sawblades, we have a complete resharpening and repair service available.

PROTEX AUTOMATIC SAWBLADE LUBRICATION SYSTEM for cutting aluminum.

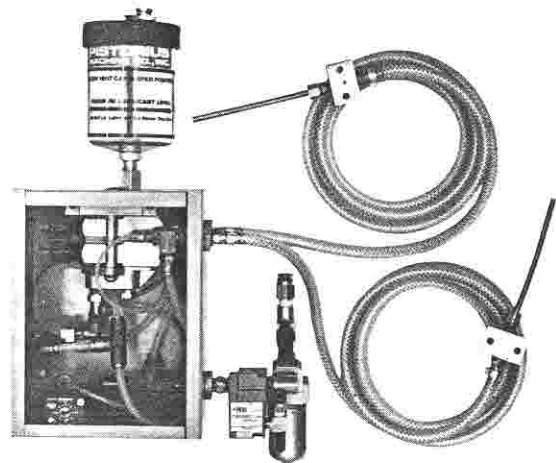
Protects your cutting environment in the following ways:

The general concept is to use the least amount of lubricant possible, and apply it to the cutting tool in the most efficient way.

Protex is a state-of-the-art, environmentally friendly, high efficiency, natural plant based liquid lubricant. *Protex* is safe, non-toxic, biodegradable and is formulated from all natural plant based materials and free of all hazardous materials. Plant based natural oils have at least 7 times more lubricating ability than petroleum based water soluble cutting oils. *Protex* has no acids to gum up the dispensing system or the cutting action.

"Dry" sawing with the high efficiency *Protex System* uses a positive displacement pump and a fluidic pulse generator to automatically apply a microfilm of pure thick natural oil directly to the sawblade cutting surfaces. The dispersion volume is adjustable to utilize the absolute minimum of fluid possible. Typically, only a fraction of a drop is dispersed per cycle.

Disposal of waste petroleum coolants can be a major problem. With the *Protex System* the lubricant is consumed during cutting with no remaining residue. Therefore, there is no secondary treatment, filters or disposal problems. In recycling, dry aluminum chips are worth about 10 times the value of oil contaminated chips.



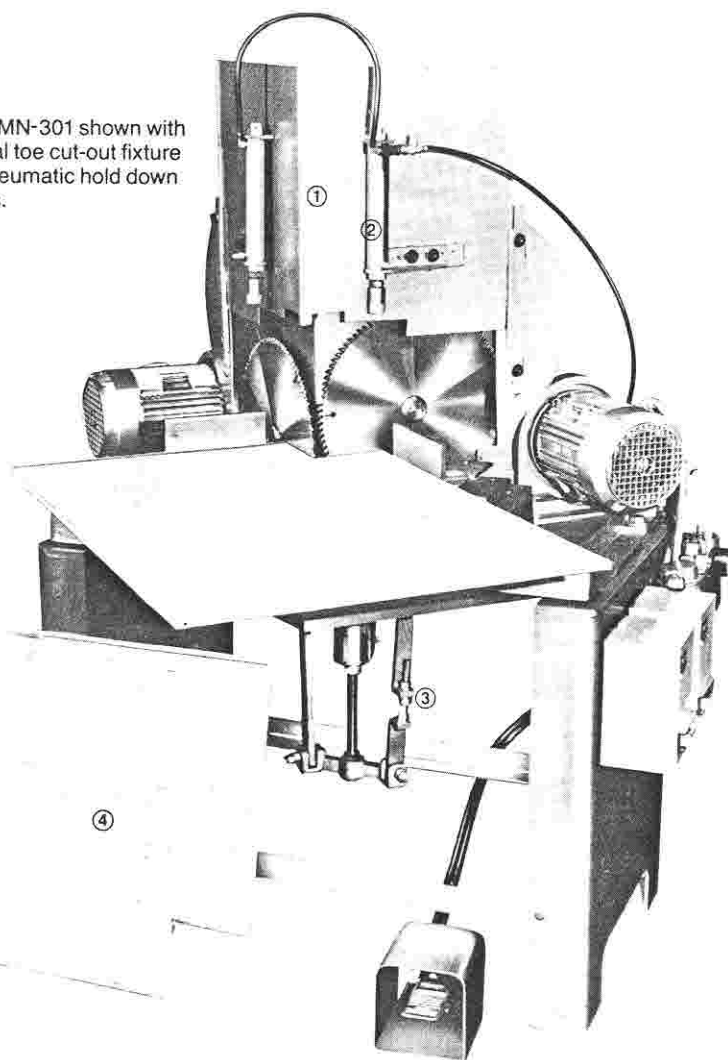
In summary, there are many benefits in using the *Protex System* for sawblade lubrication. Cutting is clean and dry with virtually no cleanup and no airborne mists or fumes. *Protex* lubricant is expensive, but is used in such small quantities that it is competitive with petroleum based systems. It has been reported that sawblade life has been increased as much as 8 times between sharpenings.

PRECISION DOUBLE MITER CUT-OFF SAWS

MODELS MN-101, 201, 301, HEAVY DUTY, PNEUMATIC PIVOT-STAGGERED HEAD MODELS, FOR HIGH SPEED, SEMI-AUTOMATIC PRODUCTION.

Staggered saw models MN-101, 201 & 301 can be used for either conventional double mitering or "notching" when using the appropriate fixtures and gages as illustrated and described below. This unique design feature allows the machine to be utilized for two different applications expanding its usefulness and providing a quicker payback.

Model MN-301 shown with optional toe cut-out fixture and pneumatic hold down clamps.



TYPICAL USES

- Kitchen cabinet toe kick cut-outs.
- Combination cabinet door mitering and toe kick cut-outs.
- Aluminum wraparound luggage and case frames.
- Aluminum wraparound display, directory and appliance or vending machine frames.

- ① Front safety guard is constructed of heavy gage steel for maximum operator protection. Machine should never be operated without the safety guard installed and adjusted to its lowest position. Safety guard is removable to change sawblades. Guard is shown in a raised position to illustrate relationship of sawblades.
- ② Optional pneumatic hold down clamps. Available for vertical use as shown or special horizontal mounting for specific applications. Supplied with shut-off cock and soft face replaceable rubber clamp pads.
- ③ Adjustable link arm to provide perfect overlap adjustment on saws.
- ④ Sharp corners & square cut-outs are assured by special "built-in" adjustments on these models.
- ⑤ Custom made optional progressive flip stops.



Optional toe-kick cut-out fixture. Fences adjust easily for any size notch (square or rectangular) up to the full capacity of the machine. For cut-out capacity, see chart below.

SPECIFICATIONS

MITER CUTTING CAPACITY

Model MN-101—2 $\frac{5}{8}$ " (67 mm) wide x 2 $\frac{5}{8}$ " (67 mm) high
Model MN-201—3 $\frac{5}{16}$ " (84 mm) wide x 2 $\frac{5}{8}$ " (67 mm) high
Model MN-301—4" (101 mm) wide x 2 $\frac{5}{8}$ " (67 mm) high

Note: When cutting narrow material that is higher than the capacities listed above, additional capacity is available. When cutting to the full width capacity listed, some height cutting capacity is lost. For actual cutting charts and specifications please contact the factory.

TOE NOTCH CUTTING CAPACITY

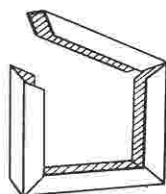
Model MN-101—3 $\frac{1}{4}$ " (83 mm) x 3 $\frac{1}{4}$ " (83 mm)
Model MN-201—4 $\frac{1}{4}$ " (108 mm) x 4 $\frac{1}{4}$ " (108 mm)
Model MN-301—5 $\frac{1}{4}$ " (133 mm) wide x 5 $\frac{1}{4}$ " (133 mm)

Note: Maximum stacking height on pivot type saws is 1 $\frac{1}{4}$ " (32 mm). For higher stacking capacity see models MN-102, 202, 302 & 402 on pages 8 & 9

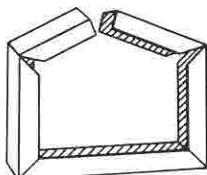
For additional standard specifications, see pages 4 & 5.

Model MN-101 equates with model MN-100
Model MN-201 equates with model MN-200
Model MN-301 equates with model MN-300

Special built in "in-and-out" adjustment allows adjustment on each saw head for sawblade diameter loss through sharpening. Always allows for precision realignment of blade overlap relationship.

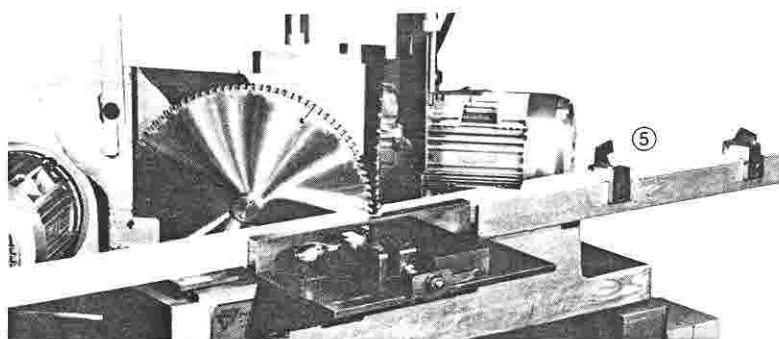


CORNER JOINT



SIDE JOINT

Standard model MN-201 double miter saw with notching fixture for "wraparound" aluminum frames as illustrated above. The notching fixture shown can be instantly set up for either a notch cut or a through miter cut by flipping the handle. Progressive stop gages are available to assure repetitive cuts.

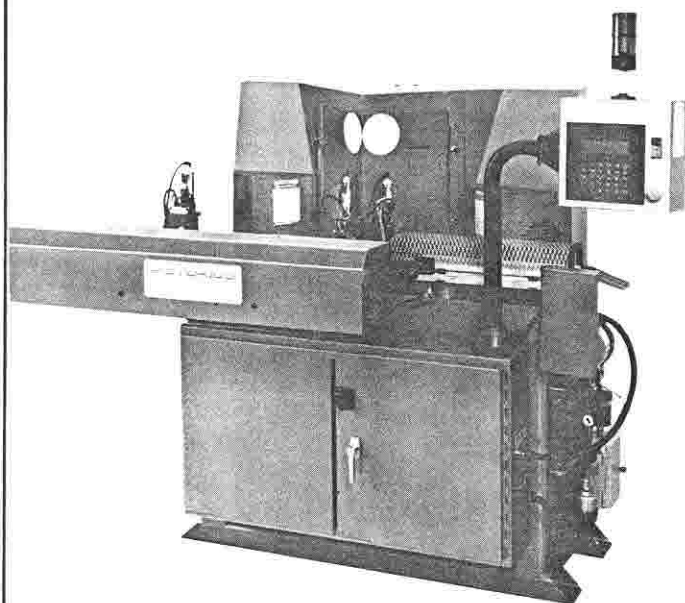


SPECIAL APPLICATION DOUBLE MITER SAWS

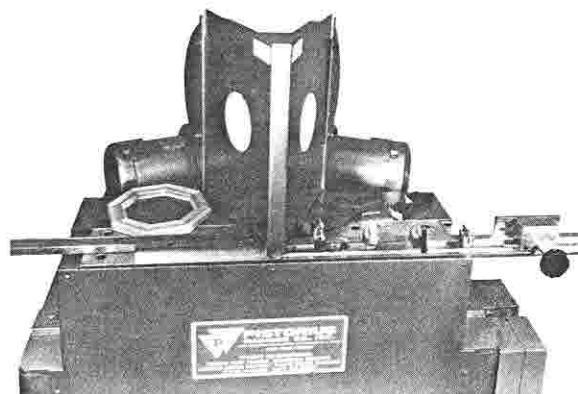
Many applications exist where standard model machines are not perfectly suited. When you need something out of the ordinary give us the details.

FEATURES

- High speed machines
- Combined operation machines
- Custom fixturing
- Automatic ejecting
- Large cutting capacity machines
- Hopper fed with automatic eject

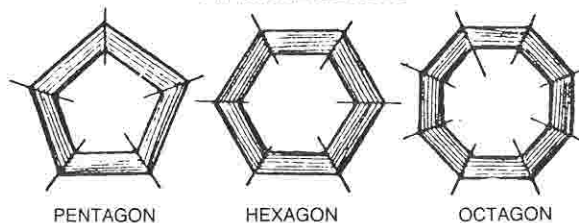


Model MN-A, programmable fully automatic double miter saw. Designed with self feeding and digital part sizing for the ultimate in mitering efficiency and part accuracy. For more information see Bulletin MN-A.



For mitering angles other than conventional 45° cut on each side, pivot-head models are available for octagons (22½°), hexagons (30°) and pentagons (36°). Each model is offered with a fixed angle setting. Significantly greater accuracy and production rates are achieved with these production machines.

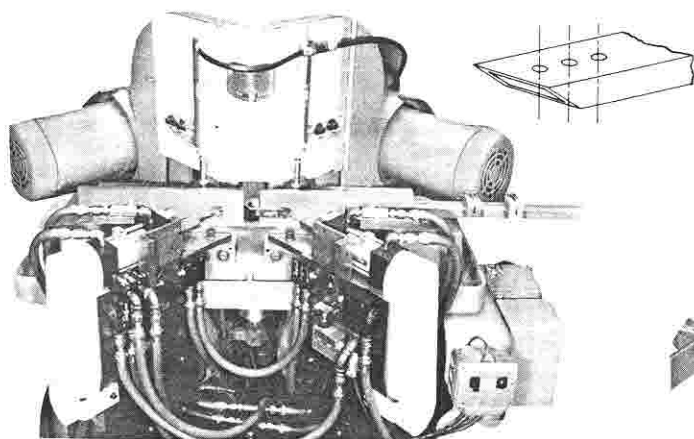
TYPICAL ANGLE CUTS



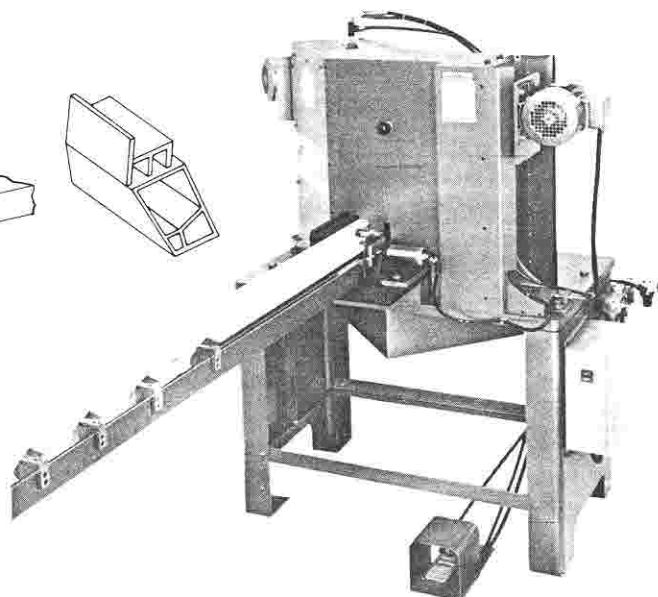
PENTAGON

HEXAGON

OCTAGON



Custom built combination mitering and drilling machine for sequential or simultaneous operations depending on application. Typical applications include mitering and drilling vinyl window sash components, aluminum display frames, etc. Combining operations saves labor, saves space, saves money and improves accuracy. Price quotations on application.



Custom built "Vertical type" double sawing machine, combines custom saw placement, custom stacking work fixtures, custom clamping and custom gage installation. Machine shown is custom designed to produce component parts for welded vinyl window sash with unique design configuration. Price quotations on application.

PRECISION "VERTICAL" DOUBLE MITER CUT-OFF SAWS

"VERTICAL" Double Miter Cut-off Saws are available in two configurations for either mitering or notching applications;

A—NON STAGGERED MODELS MN-102, 202 AND 302 are specifically designed for height cutting capacity beyond the range of pivot type double miter saws. Standard models can accommodate material up to 7 $\frac{3}{4}$ " (197 mm) high.

B—STAGGERED MODELS MN-102S, 202S, 302S AND 402S are specifically designed for notching applications requiring thickness cutting capability greater than available on pivot saw models.

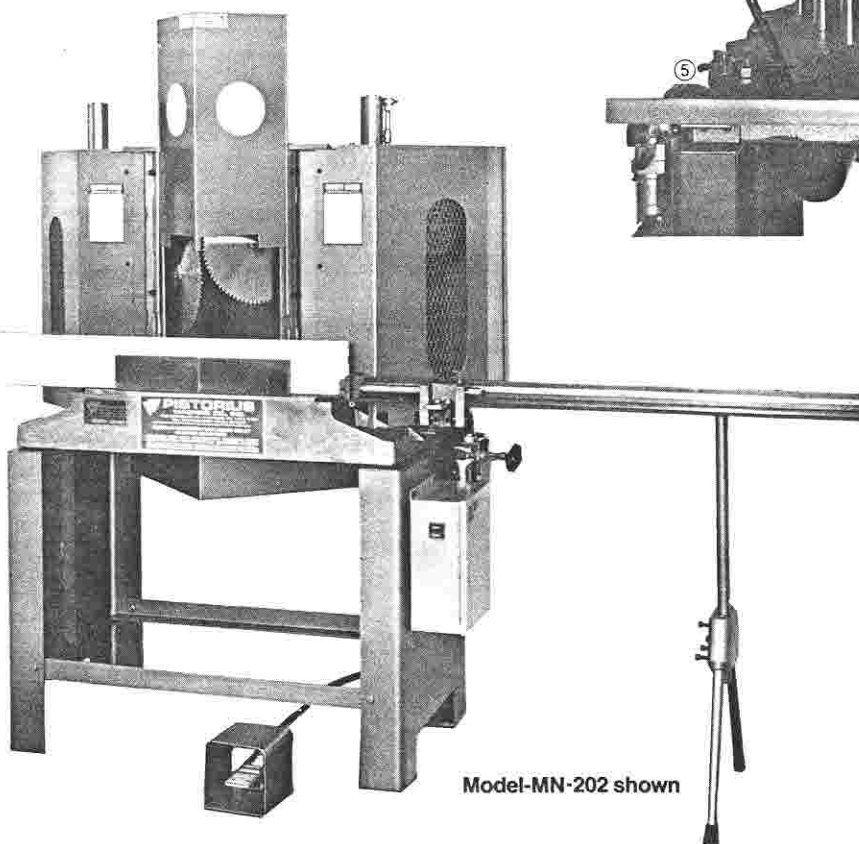
All VERTICAL models are identical in design, features and specifications, except as noted.

Saw assemblies are mounted on hardened and ground vertical rods and are equipped with maintenance free precision lineal bearings with built in double seals. Frictionless bearings allow precise movement throughout the full range of sawblade travel. Saw movement is achieved via side mounted pneumatic cylinders with flow controls. Separate air cylinders are provided for each saw station, both stations are mechanically linked together to assure the proper relationship of the sawblades.

Height cutting capacities beyond the range of the standard models are available to suit specific applications. Provide details for a quotation.

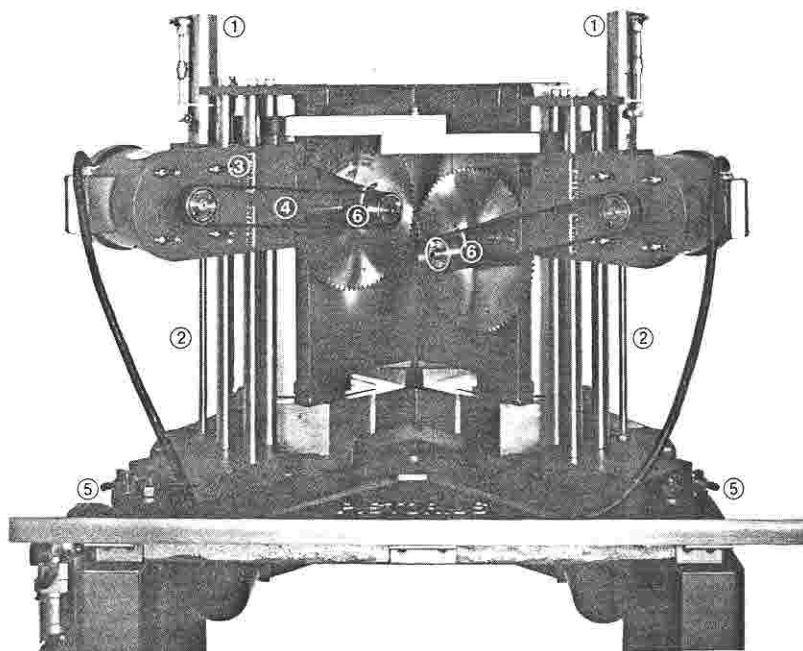
Always use Pistorius precision made, job matched Mitermaster® carbide sawblades.

Shown with safety guards removed for illustration purposes. Machine should never be operated with guard removed or opened.



Model-MN-202 shown

Model MN-202 non-staggered double miter saw shown with optional sawdust exhaust ducts, filter, oiler, regulator and pneumatic hold down clamps. Optional right hand mounted #2G Accurcut gage is shown. Other available gaging systems are shown on pages 12 to 15.



BACK VIEW

- ① Side mounted drive cylinders keep overall machine height to a minimum. Also affords easy access to all machine components for adjustments or maintenance.
- ② Precision hardened and ground vertical ways.
- ③ Lineal frictionless bearings are equipped with double seals at each end. No lubrication or maintenance is required for the life of the bearings.
- ④ Heavy duty non slip, poly-vee drive belts run smooth and quiet.
- ⑤ Fine, micrometer miter angle adjustment (within 2 degree range) for perfect miter angle settings. Each sawblade is independently adjustable.
- ⑥ Double ball bearing saw spindles are available in cartridge form and are simple to remove and replace if necessary.

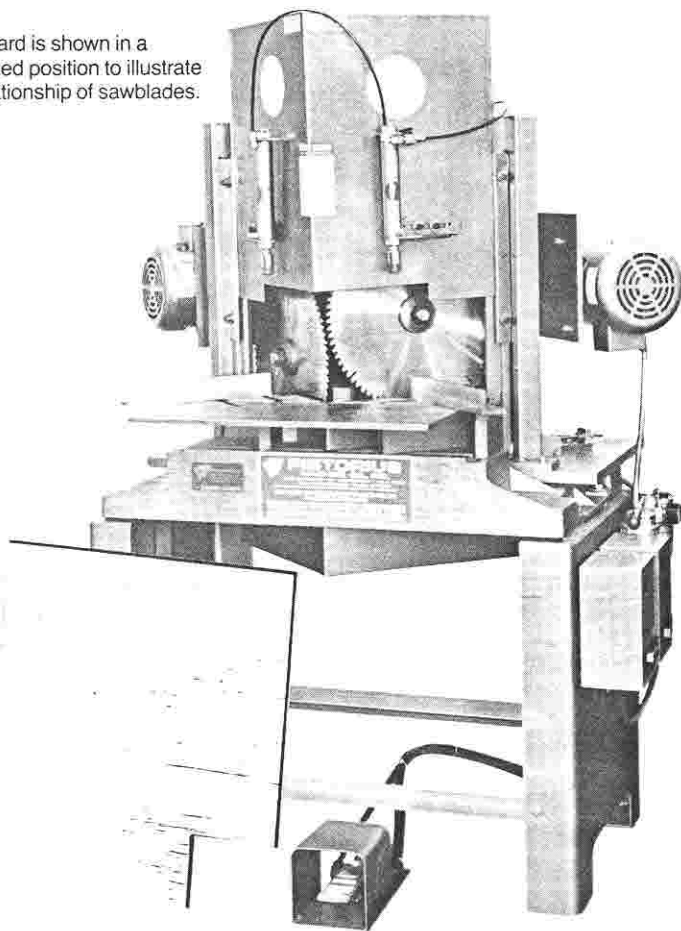
FEATURES

- Rugged, heavy duty cast iron/steel construction.
- Dual drive cylinder action assures the ultimate in smooth operation.
- Heavy duty ball bearing spindles with non slip low noise belt drive.
- Fine micrometer angle adjustment (within 2° range) for perfect angles.
- Special in and out adjustment to compensate for blade wear.
- Precision hardened vertical ways with linear sealed bearings.
- Precision machined work table and sawheads provide cutting accuracy.
- Always use Pistorius job matched Mitermaster®, carbide sawblades.

TYPICAL APPLICATIONS

- Lighting fixtures
- Greenhouse extrusions
- Bus shelters
- Novelty boxes
- Trophy bases
- Window and door jambs
- Appliance frames
- Vinyl window components
- Advertising signs
- Game tables

Guard is shown in a raised position to illustrate relationship of sawblades.



Model-MN-402S shown

Standard model MN-402S staggered double miter saw shown with optional pneumatic hold down clamps, filter, oiler, regulator, sawdust exhaust ducts and toe cut-out fixture.

On the model MN-402 the saw assemblies are mounted on precision machined vertical dovetailed ways and are equipped with extra heavy spindles with pillow block type sealed bearings.

Front safety guard is constructed of heavy gage steel for maximum operator protection. Machine should never be operated without the safety guard installed and adjusted to its lowest position. Safety guard is removable to change sawblades.

SPECIFICATIONS

MITER CUTTING CAPACITY—NON STAGGERED MACHINES ONLY

MN-102—25 $\frac{1}{8}$ " (67 mm) wide x 73 $\frac{1}{4}$ " high
MN-202—35 $\frac{1}{8}$ " (84 mm) wide x 63 $\frac{1}{4}$ " (171 mm) high
MN-302—4" (102 mm) wide x 53 $\frac{1}{4}$ " (146 mm) high

NOTE: Additional height cutting capacity is available at extra cost for all non staggered models. Price quotations on application, please contact the factory.

MITER CUTTING CAPACITY—STAGGERED MACHINES ONLY

MN-102S—25 $\frac{1}{8}$ " (59 mm) wide x 53 $\frac{1}{4}$ " (146 mm) high
MN-202S—3" (76 mm) wide x 43 $\frac{1}{4}$ " (121 mm) high
MN-302S—31 $\frac{1}{8}$ " (94 mm) wide x 31 $\frac{1}{4}$ " (83 mm) high
MN-402S—37 $\frac{1}{8}$ " (98 mm) wide x 21 $\frac{1}{4}$ " (57 mm) high

NOTCHING CAPACITY—STAGGERED MACHINES ONLY

MN-102S—31 $\frac{1}{4}$ " (83 mm) wide x 31 $\frac{1}{4}$ " (83 mm) high
MN-202S—41 $\frac{1}{4}$ " (108 mm) wide x 41 $\frac{1}{4}$ " (83 mm) high
MN-302S—51 $\frac{1}{4}$ " (133 mm) wide x 51 $\frac{1}{4}$ " (133 mm) high
MN-402S—61 $\frac{1}{4}$ " (159 mm) wide x 61 $\frac{1}{4}$ " (159 mm) high

Motor (MN-102, 202 & 302) 1 $\frac{1}{2}$ horsepower, 208-230/460 volts, 3 phase, 60 Hz (3600 rpm—models MN-102, & 202, 1800 rpm—models MN-302. Totally enclosed fan cooled. When run at 50 Hz, motor rpm is reduced on MN-102 & MN-202 to 3000 and on MN-302 to 1500 rpm. Note: standard motors will run at 208 volts or up to a 10% variation from rated voltage.

Motor (MN-402S) 3 horsepower, 208-230/460 volt, 3 phase, 60 Hz. 1800 rpm, totally enclosed fan cooled. When run at 50 Hz motor rpm is reduced to 1500. Note: Standard motors will run at 208 volts or up to a 10% variation from rated voltage.

Amps	1 $\frac{1}{2}$ HP, 208 volts, 3 phase, 60 Hz—10.0	Total
	1 $\frac{1}{2}$ HP, 230 volts, 3 phase, 60 Hz—8.72	
	1 $\frac{1}{2}$ HP, 460 volts, 3 phase, 60 Hz—4.36	
	1 $\frac{1}{2}$ HP, 380 volts, 3 phase, 50 Hz—5.28	
	1 $\frac{1}{2}$ HP, 575 volts, 3 phase, 60 Hz—3.48	
	3 HP, 208 volts, 3 phase, 60 Hz—21.6	
	3 HP, 230 volts, 3 phase, 60 Hz—18.8	
	3 HP, 460 volts, 3 phase, 60 Hz—9.4	
	3 HP, 380 volts, 3 phase, 50 Hz—11.4	
	3 HP, 575 volts, 3 phase, 60 Hz—7.52	

*Standard motor supplied with machine

Switch IEC size A, magnetic starter mounted in a common NEMA 12 dust tight enclosure with recessed start switch and extended stop switch. Control circuit operates on 24 volt and pilot light indicates the machine is running.

Drive Poly-vee flat belt except Model MN-402 with non slip timing belts.

Blade Capacity MN-102—10" (254 mm) MN-302—14" (356 mm)
(Sawblade not included) MN-202—12" (305 mm) MN-402—16" (406 mm)

Sawdust exhaust Two 4" OD. Requires Approx. 400 CFM per outlet.

(Optional Accessory)

Air Consumption 4.9 CFM at 80 psi based on 10 cycles per minute.

(3/8" air line minimum)

Air Pressure 80 psi (5.5 BAR)

Weight Without accessories or gages.

Crated (domestic) 770 lbs. (350 kg)

Crated (export) 810 lbs. (368 kg)

Uncrated 620 lbs. (281 kg)

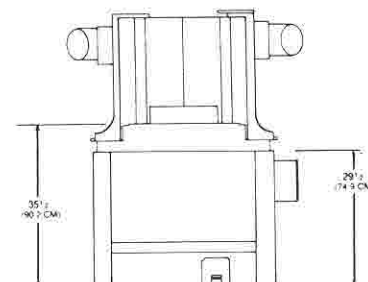
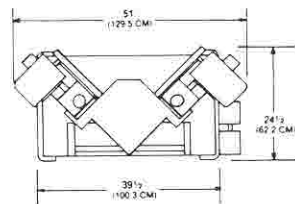
Table Height 35 $\frac{1}{2}$ " from floor (902 mm)

(Without skids)

Actuation Air valve, fully guarded, foot operated, spring return.

Production Rate Up to 10 cycles per minute with infinite feed control.

Actual production rate varies with requirements of specific application.



Pistorius machines are built to last. Extra heavy duty cast iron and steel construction throughout.

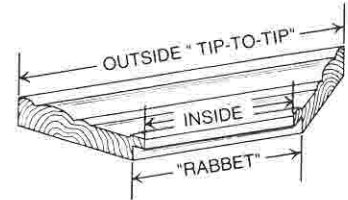
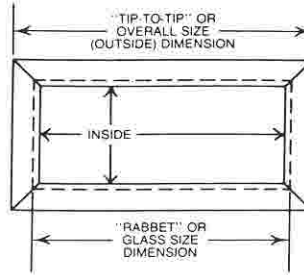
DESCRIPTION

Pistorius exclusive, patented, length measurement gages are specifically designed for fixed head double mitering saws. 6 models are available to suit nearly any mitering application.

All gages are constructed of heavy duty materials for years of trouble-free service. The simple, uncomplicated design and operation of each gage, assures consistently accurate parts even under high production cutting conditions with unskilled operators. Size changes are made quickly and accurately on all models.

No special skills are required. No computations necessary. Imperial (english) and metric calibrations are available.

An adjustable support leg is provided with each gage.



Standard length measurement accurat gages are available for either inside (rabbet) or outside (tip-to-tip).

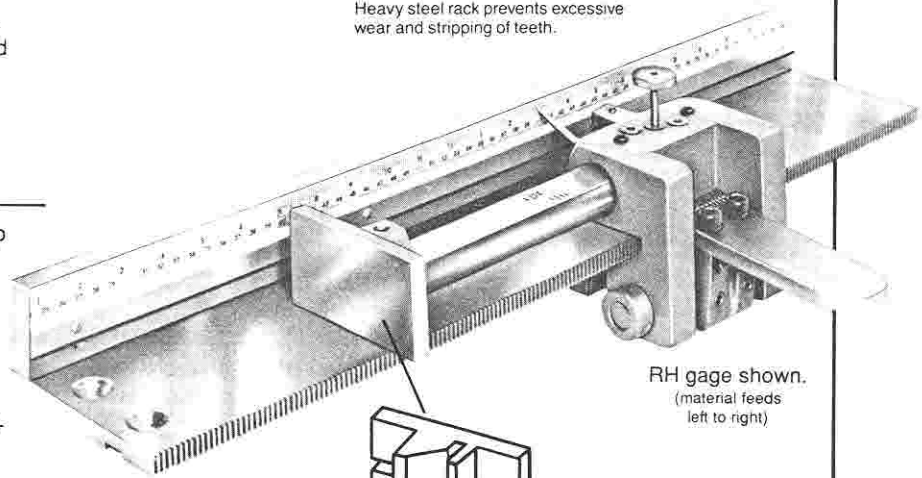
MODEL #2G TOOTH LOCK GAGE

(for outside "tip-to-tip" measurements only).

Model #2G gage is designed to be used where frequent size changes must be made accurately and quickly. The gage is available for either left or right hand mounting. Extremely rugged design, cast iron and steel construction throughout. Rapid size changes by way of spring-loaded lock-in stop. Meshing teeth provide positive locking in each position. Will not creep when locking or when material hits stop.

HOW IT WORKS

To change sizes, operator pushes down on spring loaded stop "tongue" to disengage locking teeth. The entire stop assembly is then slid laterally either left or right until the pointer on the stop is opposite the size desired on the calibrated scale. The spring loaded stop "tongue" is then released to lock the stop in place. If sizes in increments less than $\frac{1}{8}$ " (3 mm) are desired, the operator lifts the hardened pin from the stop and slides the factor bar to allow calibrations to $\frac{1}{16}$ ", $\frac{1}{32}$ " & $\frac{3}{32}$ ". The pin is then reinserted into the stop in the appropriate position and the stop is then set. The entire process described above takes only a few seconds.



RH gage shown.
(material feeds left to right)

Optional machined "vee" pad installs on cast stop face. Protects sharp points on miters. Standard stop face supplied is machined flat.

SPECIFICATIONS

Minimum tip-to-tip length cut : 8" (203.2 mm)
Weight : based on std. length 96" (2438.4 mm)
gage bar with support leg
Crated : 160 lbs. (72 kg)
Uncrated : 108 lbs. (49 kg)

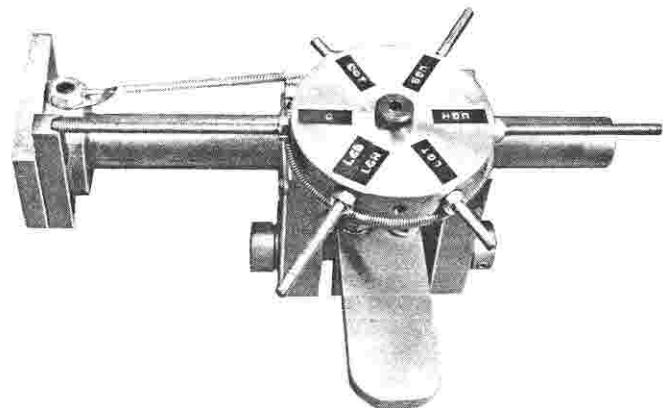
TURRET STOP

(Optional for MODEL #2G).

Designed for use on the #2G tooth lock gage bar and to replace the standard stop assembly. This unit has been designed for use by aluminum and vinyl window manufacturers. The unique turret design allows 12 adjustable positions.

A relationship exists between the overall height or width of the window master frame and the corresponding components of the upper and lower glass sliders and the screen slider.

This relationship can be set up within the turret stop, so that only one stop setting for the master height or width is necessary. The turret is simply rotated by the operator for each component of the window. This helps to eliminate mistakes and increase production.



MODEL #6G "VISI-MITER" GAGE

(for inside, rabbet or outside "tip-to-tip" measurements)
Patent #224,717

The exclusive, patented "Visi-Miter"™ gage enables you to easily and without computations, measure either inside, rabbet or outside "tip to tip" dimensions to suit the size of the item being framed.

The gage strip is stainless steel with alternating color coded sighting lines etched to a depth of .010". Every inch line is white and every 1/8" increment between inches is alternating black and red lines. On metric scales, every centimeter line is white with alternating white and black lines every 2.5 mm.

HOW IT WORKS

Etched and colored visual sighting lines are parallel to the sawblade on the right hand side of the double miter saw. When material to be measured is placed on the stainless scale, the mitered face of the material is at right angles to the visual sighting lines. If the rabbet dimension is desired, the operator places the rabbet corner of the moulding directly on the sighting line for the dimension desired. The stop is then placed against the miter and tightened with the handle. For each change of size required the above process must be repeated.

SPECIFICATIONS

Four standard sizes are available:

	4" to 48" gage	4" to 72" gage	4" to 96" gage	10' to 152cm
	(Imperial calibrations)	(Imperial calibrations)	(Metric calibrations)	(Metric calibrations)
Weight				
Crated	118lbs	138lbs	157lbs	126lbs
	(53kg)	(63kg)	(71kg)	(57kg)
Uncrated ...	66lbs	86lbs	105lbs	74lbs
	(30kg)	(39kg)	(47kg)	(33kg)

All gages are for right hand mounting only.

Note: Gage strip tolerance— $\pm 1/16"$ over 48"

Precision etched, low luster stainless steel gage strip. Visual sighting lines are color keyed to permit maximum discrimination for quick size changes.

See this gage set-up on page 4.

- ① Precision machined stop with "V" groove to prevent damage to the sharp mitered tip.
- ② An accurate scale with easy to read numerals is etched at top of strip.
- ③ Optional Flip Stops can be installed on the standard visi-fence in increments of 1" (25.4 mm) or more. These stops are ideal for progressive use such as in wrap-around frames or selective use in preset sizes. Stops can be flipped "in" or "out" as desired.

Flip Stops have two advantages:

1. With stops preset for all sizes being cut, operator can achieve the greatest yield from random lengths of material by cutting to usable lengths between defects and end cut-offs.
2. With stops preset for all sizes being cut, any operator will achieve the same results in cutting accuracy. Additional time is saved by not continually resetting the stop, and this time can be used by keeping the miter saw operating longer, providing greater production results.

MODEL #7G MITERSIZE™ GAGE

The unique design of the Mittersize™ gage allows fast accurate measurements for either inside, rabbet, or outside "tip-to-tip" dimensions without computations.

HOW IT WORKS

For outside "tip-to-tip" measurements, read the brass pointer on the yellow scale. When size desired is opposite the line on the brass pointer, tighten the knurled stop handle.

For inside or rabbet measurements, place material on bed of the gage and up against the front fence. Loosen the two round lock screws on the compensator slide bar and adjust the bar until rabbet finger touches the inside of the rabbet on the material. Slightly back off the slide bar for clearance and retighten the two lock screws. At this point, the stop calibration is set. Slide the stop assembly until the inside (rabbet) dimension desired reads directly under the heavy black line on the plastic sight gage. Tighten the knurled handle on the stop.

This process is necessary each time the width of the moulding is changed. If the same moulding is used, the stop can simply be moved from size to size.

SPECIFICATIONS

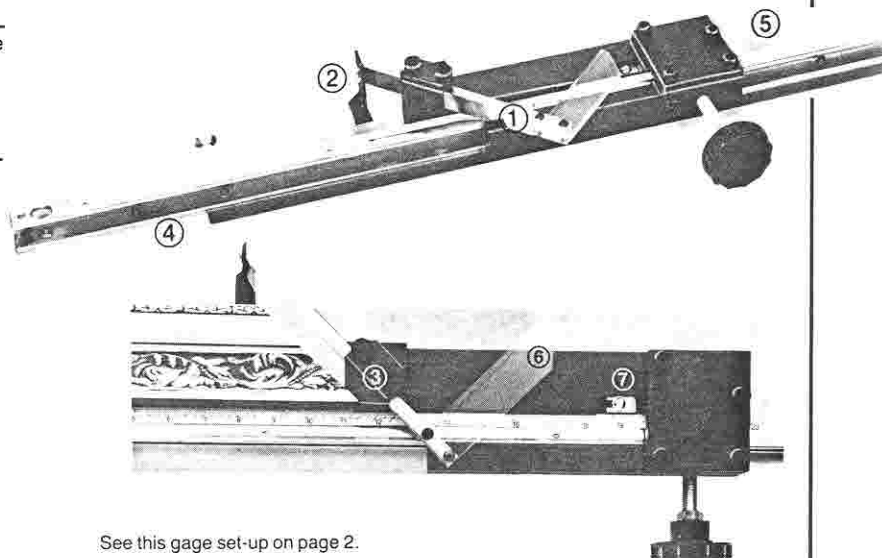
Minimum length cut (inside or rabbet)—5" (127 mm)

	5" to 60" gage	10cm to 152cm	5" to 96" gage
	(Imperial calib.)	(Metric calib.)	(Imperial calib.)
Weight			
Crated	126lbs	126lbs	170lbs
	(57kg)	(57kg)	(77kg)
Uncrated...	74lbs	74lbs	118lbs
	(33kg)	(33kg)	(53kg)

All gages are for right hand mounting only.

Gage scale tolerance— $\pm 1/64"$ accumulated over 96"

($\pm .40$ mm accumulated over 2438 mm.)



See this gage set-up on page 2.

- ① Sliding compensator bar, adjusts for width of moulding. Bar is secured by two knurled screws.
- ② Rabbet finger. Can be adjusted vertically for multi rabbet mouldings.
- ③ Precision machined stop assembly with "V" groove to prevent damage to miter tips.
- ④ 1" high (25.4 mm) fence runs the full length of the gage bar.
- ⑤ Rugged base plate of 5/16" (8 mm) thick steel. Material always rests on this surface, and does not have contact with the scale.
- ⑥ Replaceable clear plastic sight gage. Heavy black line superimposes angled lines on tape scale below.
- ⑦ Brass stop pointer provides outside (tip-to-tip) measurements.

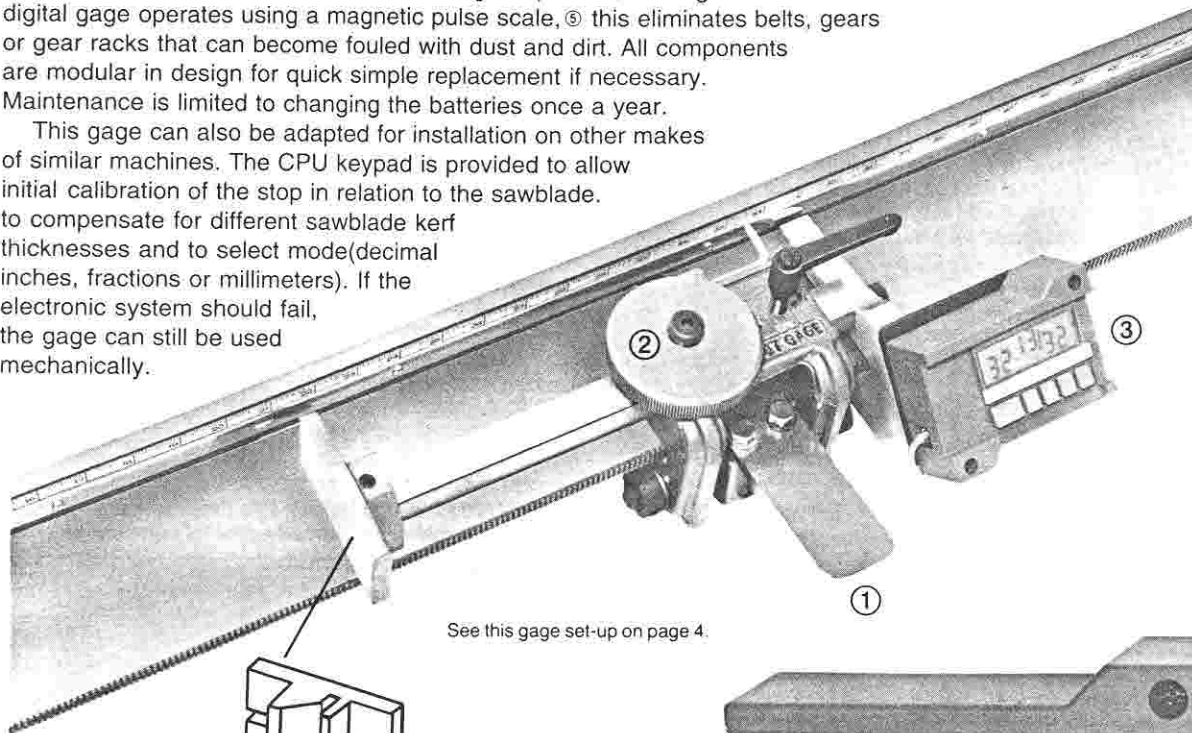
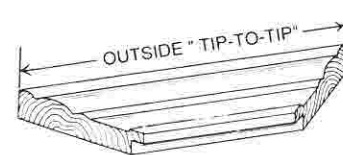
MODEL #2G-ELECTRONIC DIGITAL READOUT GAGE FOR TIP-TO-TIP MEASUREMENTS ONLY

DESCRIPTION

Low cost electronic digital part sizing is now available as an optional feature for the Model #2G Accurcut Gage as shown and described on page 12. The operator can quickly set the stop position using the spring loaded handle, ① then using the disc, ② dial in the size desired to a resolution of .001" or .01 millimeters using the digital display. ③

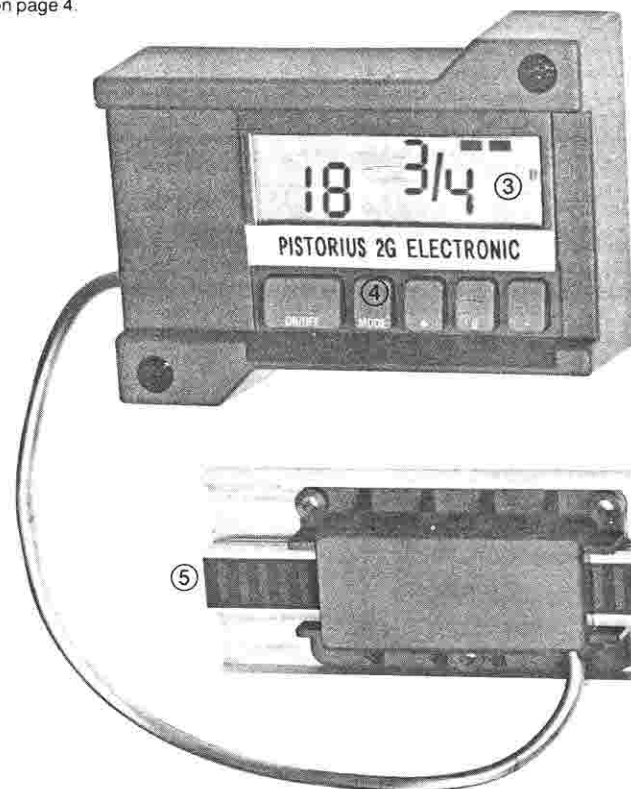
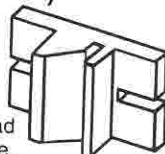
The unit can provide size readout in decimal inches, fractions or millimeters by selecting the desired display mode. ④ The large liquid crystal numerical display is easy to read and eliminates operator measurement errors often made when using a tape scale setting. The electronic digital gage operates using a magnetic pulse scale, ⑤ this eliminates belts, gears or gear racks that can become fouled with dust and dirt. All components are modular in design for quick simple replacement if necessary. Maintenance is limited to changing the batteries once a year.

This gage can also be adapted for installation on other makes of similar machines. The CPU keypad is provided to allow initial calibration of the stop in relation to the sawblade, to compensate for different sawblade kerf thicknesses and to select mode(decimal inches, fractions or millimeters). If the electronic system should fail, the gage can still be used mechanically.



See this gage set-up on page 4.

Optional machined "vee" pad installs on cast stop face. Protects sharp points on miters. Standard stop face supplied is machined flat.



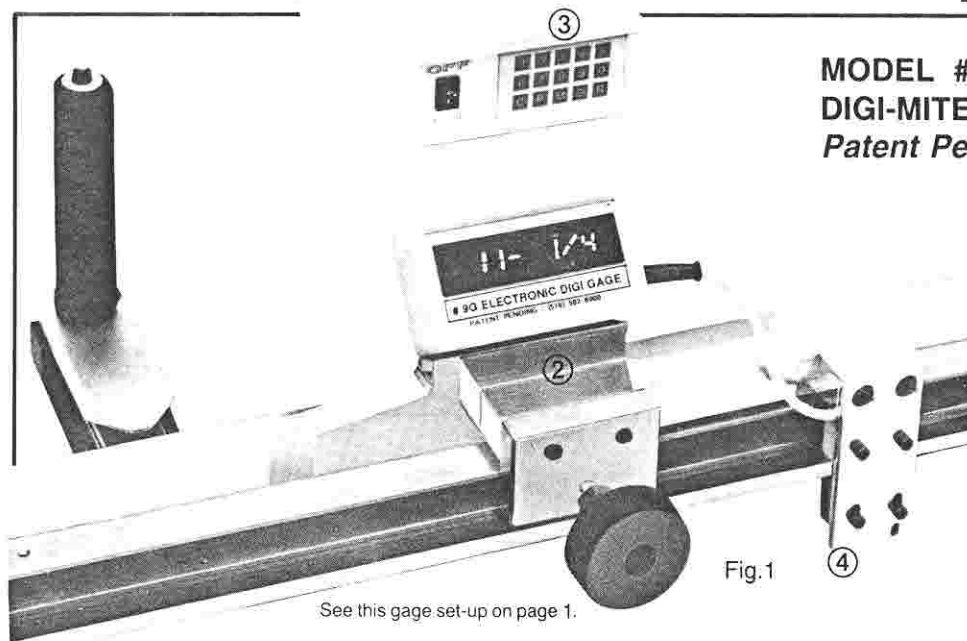
SPECIFICATIONS

- Accuracy..... Within 1 digit $\pm .001''$ times scale extension in inches at 70 degrees F or 20 degrees C to a maximum of .015" or .4mm or .01mm times scale extension in centimeters.
- Resolution..... .001" or .01mm
- Display 0 to $\pm 144.000''$
0 to $\pm 3000.00\text{mm}$
0 to $\pm 99 \frac{63}{64}''^*$
- Battery Two type AA
- Battery life One year in normal use.

* When the display is in the fractional mode, the display will show error when over $99 \frac{63}{64}''$. For dimensions over $99 \frac{63}{64}''$, the operator must change display mode to decimals. Gages longer than 144" are available on special order.

MODEL #9G ELECTRONIC DIGI-MITER™ GAGE Patent Pending

A new, low cost digital electronic lineal measurement system for rabbet (glass size) or outside (tip-to-tip) measurements for nearly all types of material.



See this gage set-up on page 1.

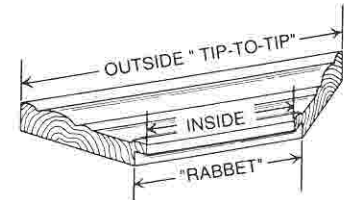


Fig.1

DESCRIPTION

The #9G Electronic Digi-Miter™ Gage, will allow virtually any operator to make error free stop settings. This will dramatically improve quality control and eliminate incorrectly cut parts.

Designed specifically to fit the Pistorius line of double miter saws, it can also be used on nearly all machines of similar design. For machines other than Pistorius saws, it may be necessary for the installer to fabricate a mounting bracket or adapter to suit the particular type of machine.

A sensing device (rabbet sensor) is provided to calibrate the stop to the material width being cut. The rabbet sensor is adjustable up and down for mouldings with high or multiple rabbets and in and out for various widths of mouldings. (1-Fig.2) The information is entered into the computer at the press of a button on the rabbet sensor handle. This step is required only once for any width of moulding being cut. The stop (2-Fig.1 & 2) is then positioned on the extruded aluminum fence as required for the size desired in decimal

inches, fractions or millimeters.

The gage bar is available in several standard sizes to a maximum of 96", and is provided with an outboard support leg. Gages can be provided for either left or right hand mounting (right hand is supplied unless otherwise specified). Hard coat anodizing is applied to the extruded rail to protect the wear surfaces for a longer life.

The Digi-Miter™ Gage eliminates the need to rely on the operator setting the stop to a tape scale. The operator can instantly select the display mode in decimal inches, fractions or millimeters (3-Fig.1). The easy to read digital display is equipped with bright red lighted numbers.

The unit operates on standard 110 volt, 1 phase, 60 cycle current. The heart of the unit is a magnetic pulse scale and Hall effect reader (4-Fig.1). The reader is solid state and is designed for a long trouble free life. Dirt, chips, dust or oil have no effect on the operational functions of the unit.

HOW IT WORKS

1. The operator lays the material to be cut onto the bed of the gage and against the fence (5-Fig.2).
2. If "rabbet" dimension is desired, the rabbet sensor is slid in toward the fence until it contacts the moulding in the desired rabbet (1-Fig.2). After contact is made with the rabbet, the button on top of the rabbet sensor handle is pressed, which inputs the width position data to the CPU. The rabbet length for the existing stop position is instantly displayed on the LED digital display.
3. If tip-to-tip size is desired, the operator slides the "rabbet" sensor to the gage fence and presses the input button. The LED display will instantly display the outside tip-to-tip dimension for the existing stop position.
4. After the rabbet width of the moulding has been entered, the operator slides the stop assembly left or right until the LED digital display shows the size desired. The lock handle on the front of the stop is then tightened to maintain the selected size in repetitive cuts. The CPU is equipped with a fast processor to allow correct size display regardless of the speed of stop movement.
5. Due to the width variety of moulding shapes and sizes, it is necessary to provide the capacity to "sense" different rabbet heights and widths in relation to the outside of the moulding. The rabbet sensor is provided with the ability to accommodate mouldings with raised, offset or multiple rabbet locations.
6. The CPU keypad (3-Fig.1) is provided to allow initial calibration of the stop in relation to the sawblade, to compensate for different sawblade kerf thicknesses, to set up a standard glass allowance value and to select the display mode (decimal inches, fractions or millimeters).

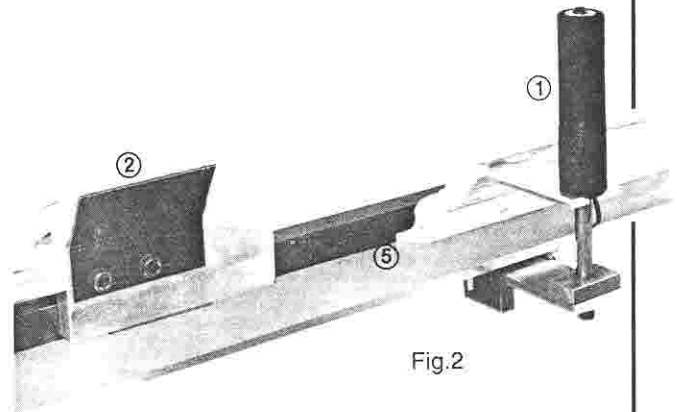


Fig.2

SPECIFICATIONS

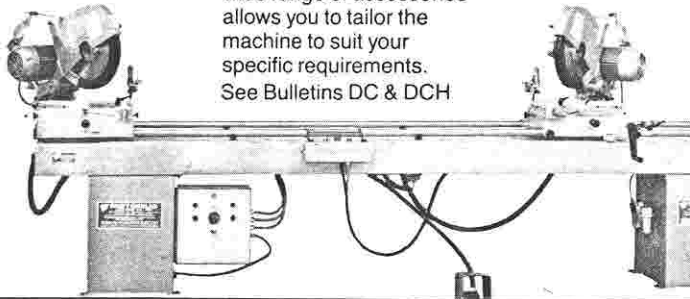
Accuracy	+/- .015" (.4mm)
Display	0 to +/- 144.000"
	0 to +/- 3660.00mm*
	0 to +/- 99 63/64"
Electrics	110 volt, 1 phase, 60 cycle
	220 volt, 1 phase, 50 cycle

* Gages longer than 144" are available on special order.

OTHER AVAILABLE PISTORIUS MACHINES

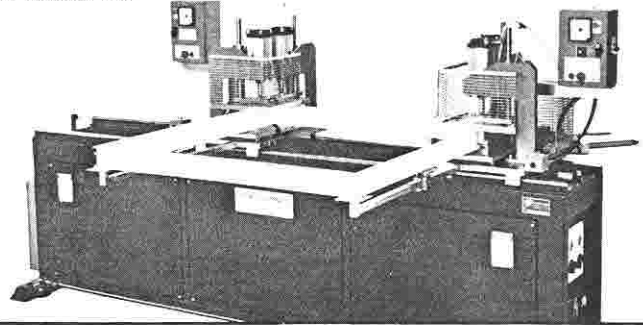
DOUBLE END CUT-OFF SAWS

Seven models available to suit most double end cutting applications. A wide range of accessories allows you to tailor the machine to suit your specific requirements. See Bulletins DC & DCH.



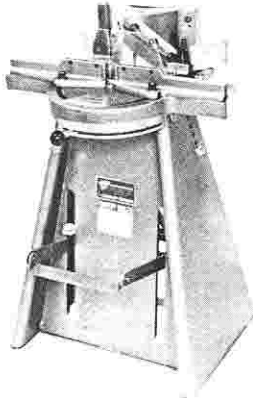
THERMAL WELDERS

Single and multi-point thermal and ultrasonic welders for PVC extrusions. See Bulletin TW.



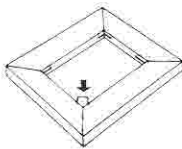
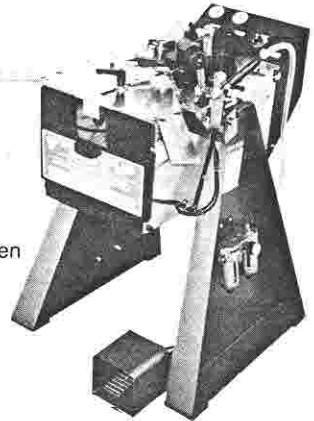
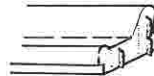
KNIFE TYPE DOUBLE MITER CHOPPER

Low cost double miter chopper features low operating noise and creates virtually no dust in cutting. Provides precision miters for low production applications. See bulletin K.



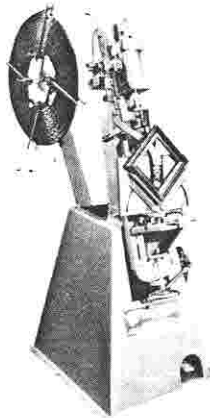
VEE NAIL FRAME ASSEMBLY MACHINES

Unique vee shaped fasteners are driven into the back of flat back frame type components. Provides strong joints without the necessity to fill or putty staple or nail holes. Fastener is internally concealed. Performs custom frame quality. See bulletin VN.



JOINTNAIL ASSEMBLY MACHINES

Inserts a flat "I" shaped tapered fastener into the joint of a pre-mitered and pre-kerfed wood frame. The resultant joint is virtually as strong as the wood itself. Fastener is completely internally concealed. Ideal for wide hardwood mouldings and scoop type mouldings. See bulletin QL.



DUST COLLECTORS

For further information on dust collection devices, see bulletins TC & V, illustrating and describing low cost vac type units and high efficiency centrifugal separators.



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IMPORTANT WARNING

It is extremely important that operators be thoroughly instructed in the proper and safe operation of the machine prior to use. Sawblades are extremely sharp and can cause serious injury. Hands and fingers must avoid sawblades at all times and must never be placed under the safety guard while the machine is in operation. When the machine is not in use or is undergoing maintenance or adjustments disconnect electrical and air service. Safety guards must never be removed except to change tooling. The machine must not be operated unless in perfect operating condition and all guards are securely in place and in proper adjustment.

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