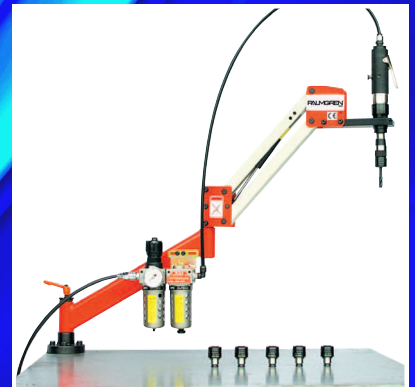




MACHINERY



PALMGREN

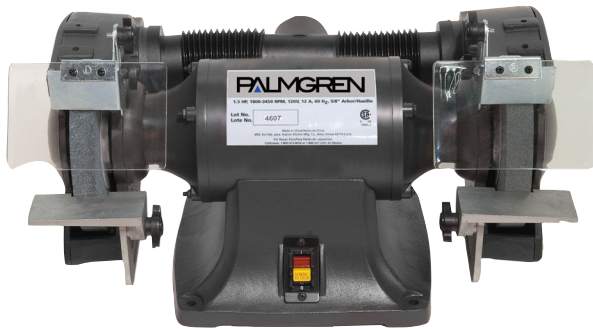
Finishing Machines

Heavy Duty Bench Grinders 6", 7", 8", 10" & 12" Models

Palmgren's line up of industrial grade bench grinders provide smooth, quiet power for all grinding, cleaning, deburring, chamfering and sharpening jobs. Designed to handle heavy stock removal to finishing applications these powerful units are built for continuous, efficient use all day, every day. Built with heavy duty capacitor motors that supply the extra current required during the start-up and operation under load, extended wheel-to-wheel clearance which allows longer items to be ground easily, dynamically balanced

rotors and sealed bearings to minimize vibration and ensure smooth running, large adjustable tool rests for safe, efficient tilt and angle grinding, adjustable safety eye shields easily positioned with hurricane bolts and our exclusive single port dust collection system, on selected models, all designed to add maximum performance, accuracy and value. CSA approved OSHA compliant. 12" model comes standard with tool stand.

Single-port
Dust Collection



82081



82121

Wheel Dia. (In.)	Dust Collection	Face Wheel Dim. (In.)	Arbor Hole (In.)	Exhaust Port (In.)	Wheels C to C (In.)	Dimensions (In.)				Max. RPM		Item No.
L	H	HP	Voltage									
Heavy-Duty Grinders, Single Phase												
6	No	3/4	1/2	-	14-1/4	18-1/2	10	1/4	115/230	3450	3/1.5	82065
6	No	3/4	1/2	-	14-1/4	18-1/2	10	1/3	115/230	3450	3.5/1.75	82061
6	Yes	3/4	1/2	2-1/2	14-7/8	19-1/4	10-1/2	1/3	115/	2000-3300	3.5	82064
7	Yes	1	5/8	2-1/2	16-1/2	21	13	1/2	120/240	3450	5/2.5	82071
8	Yes	1	5/8	2-1/2	16-1/2	21	13	3/4	115/230	3450	7/3.5	82081
10	Yes	1	1	2-1/2	20	24	16	1	115/230	1725	10/5	82101
12	Yes	2	1-1/4	2-1/2	21-3/4	23	50-1/2	2	220	1725	10	82121
Heavy-Duty Grinders, 3-Phase												
8	Yes	1	5/8	2-1/2	16-1/2	21	13	3/4	220/440	3450	2.2/1.1	82082
10	Yes	1	1	2-1/2	20	24	16	1	220/440	1725	3.3/1.7	82102

Heavy Duty Bench Grinder Buffer

Designed to handle heavy stock removal to finishing and polishing operations. These grinder/ buffers come with capacitor motors to supply the extra current required during start up and operation under load. The dynamically balanced rotors and sealed bearings minimize vibration and ensure smooth running. Each unit comes with a OSHA compliant wheel guard for all grinding wheel and wire brush operations and an open flanged shaft for all your buffing and polishing applications.



Wheel Dia. (In.)	Dust Collection	Face Wheel Dim. (In.)	Arbor Hole (In.)	Exhaust Port (In.)	Wheels C to C (In.)	Dimensions (In.)					Max. RPM		Item No.
						L	H	HP	Voltage			Amps	
Bench Grinder Buffer													
6	No	3/4	1/2	-	14-1/4	18-1/2	10	1/3	115/230		3450	3.5/1/75	82068
8	No	1	5/8	-	16-3/8	21	13	3/4	115/230		3450	7/3.5	82088

Includes 36 grit grinding wheel, 0.014" wire wheel, one wheelguard and tool rest, spiral cotton buffing wheel and mounting spacers

6", 8" & 10" Buffers

Palmgren's buffing machines easily remove scratches and other imperfections, brings out the natural luster of the metal and can effectively clean, finish, polish and buff a wide variety of materials. Each unit is equipped with a strong, powerful motor that supplies the necessary torque for start-up and operation under load, large diameter armature shaft with shielded bearings for smooth operation and heavy duty cast iron construction for vibration free operation. CSA approved OSHA compliant. Units fit 70101 tool stand. Model **82093** built with a heavy duty 2 speed motor which delivers the right speed and power to buff, polish and finish a wide variety of rough surfaces – smooth.



82083

Size (In.)	HP	RPM	Shaft Dia. (In.)	Amp	Voltage	Item No.
6	1/2	3450	1/2	5.0/2.5	115/230	82063
8	3/4	3450	5/8	7.0	115	82083
10	1	1725 to 3450	1-1/4	10/5	120/240	82093



82093

Finishing Accessories

70101 - Heavy duty cast iron tool stand fits all bench grinders, buffers and belt grinders. Multi-hole top for easy securing of finishing tool to stand and quench pot.

70101



Steel Arbor Spacer Kits

Steel arbor spacer kits for use with Dayton bench grinders when installing and using wire wheels on your grinder.

82930 – for use with all 6” grinders

82931 – for use with all 7” & 8” grinders

82932 – for use with 10” grinders

82904 - Worklight easily mounts on bench grinders, bench top belt grinders as well as other manual machine tools for increased visibility at the point of operation.

82901 - Small grinding wheel dresser, cast iron construction, hardened steel cutters, for use on grinding wheels up to 1” wide.

82902 - Large grinding wheel dresser, cast iron construction, hardened steel cutters, for use on 1” to 3” wide grinding wheels.



82902
82901



82904

Bench Grinder Pedestal with Built-in Dust Collection Cabinet

Cabinet design allows for bench and belts grinders to be securely mounted while only taking up a small foot print of shop floor space. The front mounted hinged door is convenient for fast clean up. The unit effectively removes hazardous material and dust particles away from the operator while recirculating clean air back into the shop resulting in a cleaner, safer work area.

Item: 86000
Base Size (In.): 19 x 17
Table Size (In.): 19 x 17
Height (In.): 38

Includes:

2.3/4" dust collection port
 Quench pot
 Easy access hinged door for dust & partial removal
 Spark arrestor
 30 micron filter bag
 Replaceable hepa filter
 700 CFM



86000

Belt Grinders

Palmgren's belt grinders are ideal power tools for all shops. These versatile machines grind, sand, finish, polish, deburr and contour all types of parts on any type of material. Built with a powerful capacitor motor for all day use, the belt is adjustable for use in either the vertical or horizontal position. All units come with front mounted on/off paddle switch, simple belt tensioning and adjustment, full belt guard with dust collection port and are OSHA compliant. Units fit **70101** tool stand.

HP	Volts	Amps AC	Belt Size (In.)	Belt SFPM	Table Work Surface (In.)	Dimensions (In.)			Item No.
						D	W	H	
1/2	120/240	5.0/2.5	1 x 42	1800	3 x 3	18	25	45	82401
3/4	120/240	7.0/3.5	2 x 48	4500	2-1/2 x 5	18	25	52	82402
3/4	120/240	7.0/3.5	4 x 36	3615	2-1/2 x 5	19	26	40	82404



82402

Combination Bench & Belt Grinder

Palmgren's combination bench and belt grinder combines two machines into one and are ideal for grinding, deburring, polishing and finishing all types of parts on any type of material. With such versatile capabilities this combination grinder eliminates the need for a number of different machines. Built with a powerful capacitor motor for use all day, every day along with a dynamically balanced rotor and sealed bearings which minimize vibration and ensure accuracy. All units come equipped with a front mounted safety on/off switch, adjustable work rests, dust collection ports and are OSHA compliant. Unit fits **70101** tool stand.



82088

HP	Volts	Amps AC	Belt Size (In.)	Belt SFPM	Wheel Diam. (In.)	Wheel Face Diam. (In.)	Wheel Speed (RPM)	Arbor Hole Size	Dimensions (In.)			Item No.
									D	W	H	
3/4	120/240	7.0/3.5	2 x 48	4500	8	3/4	3450	5/8	21	14	26	82088

Combination Belt & Disc Finishing Machines / Metal & Woodworking

Palmgren's direct drive combination belt and disc finishing machines come in two sizes – 2" x 42" belt with a 6" disc bench model (**81061**) and a 6" x 48" belt with a 9" disc floor model with open stand (**81093**). These versatile machines grind, sand, finish, polish, deburr and contour all types of materials and parts. The belts operate in the horizontal or vertical position and are designed for fast, easy belt changes. Both the belt and disc come with a tilting work table that is slotted to accept the standard miter gauge. The base is cast iron for maximum rigidity and the direct drive transmission with a heavy duty capacitor motor allows the units to work under tremendous load without slowing or bogging down.

81061



81093



HP	Volts	Amps AC	Disc Dia. (In.)	Disc Speed (RPM)	Belt Size (In.)	Belt SFPM	Disc Table Size (In.)	Belt Table Work Surface (In.)	Dim. (In.)			Item No.
Bench Belt and Disc												
1/3	120	3.5	6	3500	2 x 42 and 1 x 42	4400	5-1/2 x 8-1/4	6-3/4 x 9	8	14-1/2	23	81061
Floor Belt and Disc												
1	120/240	9.0/4.5	9	3450	6 x 48	2700	5-7/8 x 11-3/4	5-7/8 x 9-7/8	22	26-1/2	55	81093

Combination Belt & Disc Finishing Machine

Palmgren's combination belt and disc finishing machines are versatile and economical workshop tools. Cast iron construction delivers rigidity and vibration free operation. The belt can be positioned in the horizontal or vertical position and is designed for fast, easy belt changes. Both the belt and disc come standard with a cast iron tilting table, slotted to accept the standard, deluxe miter gauge to allow for plain and compound miters. Dust collection shrouds for both the belt and the disc and the unit comes complete with a fully enclosed steel floor stand to protect the motor from dust.

81112



HP	Volts	Amps AC	Disc Dia. (In.)	Disc Speed (RPM)	Belt Size (In.)	Belt SFPM	Disc Table Size (In.)	Belt Table Work Surface (In.)	Dim. (In.)			Item No.
1	120/240	13.4/6.7	10	2150	6 x 48	1830	7 x 14	6 X 10 1/8	21	18	59-1/2	81110
1-1/2	120/240	14/7	12	2350	6 x 48	1830	7 x 16	6 X 10 1/8	23	19	59-1/2	81112

Engravers

Electric Rotary & Engraving Tool

Palmgren's corded variable speed rotary tool offers the precision and control required to complete a wide variety of applications. Its variable speed control allows you to set the speed of the tool to match a particular tool bit or task at hand. Its lightweight aluminum die cast body provides comfort and added strength for long term use and durability.

- 1/8" collet chuck with built in spindle lock for fast, easy tool changes
- Variable speed from 3000 to 30,000
- On/off switch and marked variable speed control switch for precise speed selection
- Cool running ball bearing construction for smooth quite operation
- Replaceable motor brushes extend too life
- Comes with one spiral cut carbide engraving point

SPECIFICATIONS:

Model No.:	50000
Amperage:	1.1
Speed range:	3000 to 30,000
Voltage:	120
Cord length:	6'
Weight:	1.7 lbs.



Electric Rotary Tool Kit

Includes electric rotary engraving tool #50000 above and items listed here.

- | | |
|---|--|
| 1 - 50000 Rotary Tool | 1 - 25/32" silcon carbide grinding stone |
| 1 - Black Storage case | 1 - 3/8" alum. oxide grinding stone |
| 1 - Clear accessory storage case | 1 - 3/8" cone shape alum. oxide grinding stone |
| 5 pcs fiberglass reinforced 1 1/4" cut off wheels | 1 - engraving tungsten carbide bit |
| 5 pcs 15/16" cut off wheels | 1 - 1/8" cylindrical carbide burr |
| 1 - mandrel for cut off wheels | 1 -1/4" included angle carbide bit |
| | 1 - pointed cone diamond tip bit |



Electric 2-Speed Pencil Engraver

Palmgren's 2 speed pencil electric engraver has a solid aluminum body with an ergonomic rubber finger grip which provides added comfort and ease of use. This is the most versatile hand-held engraving instrument – its unique design provides an exceptionally lightweight, slender and superbly balanced device. With two types of points and adjustable power, the most delicate to hardest material can be marked. Each unit includes 1 carbide tip point and 1 steel point.

SPECIFICATIONS:

Model No.:	50002
Speeds:	2
Strokes per Minute:	Low-3600 / High 7200
Voltage:	110V
Watts:	8
Point Diameter:	1/16" (.062")
Tool Length:	7-1/4"
Tool Weight:	10 oz.



Battery Engraver

Portable battery engraver operates on two AAA batteries. Diamond tip engraves most surfaces. Light weight aluminum body with comfort grip provides strength and durability. Comes with hex wrench, bit, batteries and storage case.

SPECIFICATIONS:

Model No.:	50005
Battery Type:	AAA (2)
Strokes per Minute:	3300
Size Diameter:	.090"
Weight:	0.1 lb.

50005



Standard Duty & Radial Arm Drill Presses

Palmgren's practical light to medium duty drilling machine combines performance and economy into one. It's an ideal choice when working with metal, composite, plastic or wood. Available in a bench model, step pulley, belt driven and designed for general purpose intermittent use.

- Durable cast iron head, table & base
- Spindle supported by high quality ball bearings
- Rack and pinion table raiser
- Table tilts 45° to the right & left and swivels 360° around the column
- 1/2" through table & base slots for easy mounting & clamping of workpiece
- Lazer alignment on 80110A
- Spindle depth stop
- Front mounted safety, paddle on/off switch
- Drill chuck & key



80110A

Palmgren's radial arm drill presses have an extended reach, tilting drill head that is ideal for large or odd-shaped work pieces. The head of the drill press moves 12-1/2" forward or backward and tilts 90 degrees left and 45 degrees right. The table also tilts 45 degrees left or right allowing easy machining of holes at almost any angle.



80341A



80342A

Swing (In.)	Motor HP	Voltage	Amps AC	Capacity Cast Iron (In.)	Spindle Speeds	RPM	Spindle Taper	Spindle Travel (In.)	Spindle to Table (In.)	Table Work Surface (In.)	Table Slots (In.)	H	Overall Diam. (In.) W	D	Item No.
Standard Duty Drill Press															
10	1/3	115	6.8	1/2	5	620-3100	JT33	2-1/2	10-11/16	7-13/16 x 7-13/16	1/2W x 4-11/16L	27-1/2	11-1/4	19-1/4	80110A
Radial Arm Drill Presses															
9 to 33	1/2	115	4.8	5/8	5	575-3520	MT2	3-5/32	15	8-7/8 x 9	1/2	37	10	33	80341A
9 to 33	1/2	115	4.8	5/8	5	575-3520	MT2	3-5/32	30	10-3/8 x 10-3/8	1/2	65	14	33	80342A

Heavy Duty 16-Speed 12", 15", 17" & 20" Step Pulley Drill Presses

Palmgren's heavy duty 16-speed drill presses are designed and built for drilling a wide array of materials. They have the weight and rigidity to maintain the built-in tight tolerances required for metalworking applications. The oversized, massive drill heads have widely spaced bearing surfaces that provide full quill support throughout its travel. A wider range of operation speeds for drilling both large and small holes. Whether you're drilling one hole or many - where precision drilling is required you'll do the job better and faster with Dayton drills.

- Fully enclosed spindle for accurate drilling operations
- Maximum spindle run out of 0.0005"
- Extended quill/spindle travel ideal for deep hole applications
- LED readout of spindle speed and quill travel
- Rack and pinion table raiser
- Precision ground t-slotted work table with coolant trough
- Table tilts 45 degrees right and left and rotates 360 degrees around the column
- Quick change vertical depth stop for accurate, repeatable feed length
- Heavy cast metal 3 spoke quill feed handle with ergonomic speed feed handle
- Front mounted industrial paddle-type power switch
- Includes chuck with safety-eject key and arbor



80150



80155



80156



80174



80207

Swing (In.)	Motor HP	Voltage	Amps AC	Capacity Cast Iron (In.)	Spindle Speeds	RPM	Spindle Taper	Spindle Travel (In.)	Spindle to Table (In.)	Table Work Surface (In.)	Table Slots (In.)	H	Overall Diam. (In.) W D	Item No.
Bench Models														
13.25	1/3	120	6.0	1/2	16	244-3386	JT33	3-1/4	16-3/4	8-5/8 x 9-7/16	1/2	38-7/8	9-3/4 16-1/2	80150
15	1/2	120/240	8.6/4.3	5/8	16	138-3476	MT2	5	13	11-1/2 x 13	1/2	43	11 18-1/8	80155
Floor Models														
15	1/2	120/240	8.6/4.3	5/8	16	138-3476	MT2	5	26-1/4	11-1/2 x 13	1/2	66	12-3/4 19-3/4	80156
17	1	120/240	10.2/5.1	3/4	16	138-3476	MT2	5	25	11-1/2 x 13	1/2	65-1/4	12-3/4 19-3/4	80174
20	1.5	120/240	14/7	1-1/4	16	120-3605	MT3	6	26-3/8	16-5/8 x 18-5/8	1/2	69-3/4	17-5/8 22-1/2	80207

20” 12-Speed Heavy Duty Step Pulley Drill Press

Production duty drill press designed and built to handle a wide variety of uses from general purpose drilling applications to production jobs. Fully enclosed spindle with a maximum runout of .0005” for accurate drilled holes. Rack and pinion table rasier easily positions the workpiece and fixture at the proper height. This drill delivers performance and reliabiltiy at an economical price.

- Cast iron head, table and base
- Rack and pinion table rasier
- Spindle depth stop
- Front mounted paddle on/off switch
- Tilting table
- Heavy duty spindle bearings
- Drill chuck and arbor



Swing (in.)	Motor HP	Voltage	Amps AC	Capacity Cast Iron (in.)	Spindle Speeds	RPM	Spindle Taper	Spindle Travel (in.)	Spindle to Table (in.)	Table work surface (in.)	Table Slots	Dimensions			Item No.
20	1	115/230	16/8	1	12	140 to 2600	MT 3	5	26	13 x 15	5/8	70	23.5	33	80329

15" & 20" Variable Speed Drill Presses

15" Variable Speed Drill Press

Designed for operator convenience - instant speed changes are achieved by dialing the side mounted speed selection hand wheel to allow the best rpm for the material and cutting tool being machined. This drill is built to handle the full range of drilling machine operations. Equipped with a fully enclosed machine tool spindle, with 6" spindle travel ideal for deep hole applications. The variable speed design allows the operator to select the proper speed to match the cutting tool and material resulting in optimum efficiency, longer cutting tool life and increased production

- Drill Chuck & arbor
- LED sprindle speed readout
- Accurate depth stop
- Production t-slotted table



80315

20" Variable Speed Drill Press

This innovative electronic variable speed drive drill press provides the user with the most efficient and versatile drill press delivering a speed range with the power torque for both large and small hole applications. This drill is built to handle the full range of drilling machine operations. Equipped with a fully enclosed machine tool spindle, with 6" spindle travel ideal for deep hole applications. The variable speed design allows the operator to select the proper speed to match the cutting tool and material resulting in optimum efficiency, longer cutting tool life and increased production

- Latest AC Inverter Technology High torque at all speeds both in forward or reverse
- Front Mounted LED spindle speed readout
- Integrated tapping control
- Tapping mode with break for instantadeoous spindle reversal
- Continuous speed adjustment while in operation
- Accurate front mounted depth stop
- Large t-slotted work table



80320

Swing (in.)	Motor HP	Voltage	Amps AC	Capacity Cast Iron (in.)	Spindle Speeds	RPM	Spindle Taper	Spindle Travel (in.)	Spindle to Table (in.)	Table work surface (in.)	Table Slots	Dimensions H W D	Item No.
15	1	115/230	13.6/6.8	5/8	Variable	400 to 5000	MT 2	6	13 to 26.5	11.25 x 14.75	5/8	72 21.5 31	80315
22	2	230	10	1	Variable	150 to 2250	MT 3	6	24	13 x 15	5/8	78 20 32	80320

Drilling & Milling Machine Guards

Drill Guards

These specially designed drill guards give full protection from quill to drill point by the smooth telescopic action of the guards, which collapse as the drill penetrates the workpiece, returning to the extended position when the spindle is raised. These units are made from strong aluminum extrusions and injection molded high impact polycarbonate which offers clear and safe vision through body and visor. In the operating position the guards are securely locked in the closed position by a spring-loaded plunger pin assembly.

When released, the guard hinges up, allowing instant access for cutting tool and/or chuck change. All drill guards comply fully with BS EN 292 "Safety of Machinery" adjustable guards.

- Clear vision for safe operation
- Rapid adjustment for drill length
- Fast access for cutting tool changes

15025



15024



15023



15012



Description	Max. Chuck Dia. (In.)	Lower Spindle Bearing Collar Dia. (In.)	Quill Dia. (In.)	Max. Stroke (In.)	Min. Stroke (In.)	Item No.
Drill Press Guard	2-5/8	1-3/4 to 3-1/2	1-3/4 to 3-1/2	10-1/2	4-3/4	15023
Drill Press Guard	3	1-3/4 to 3-1/2	1-3/4 to 3-1/2	7	4-7/16	15024
Drill Press Guard	2-1/8	1-3/4 to 3	1-3/4 to 3	6-1/4	3-1/2	15025
Drill Press Guard Must be Machined to fit Drill Presses with Exposed Lower Spindle Bearing Collar Diameter of 1-3/4 to 3-3/4	2-3/4	1-3/4 to 3-1/2	1-3/4 to 3-1/2	7	4-5/16	15012

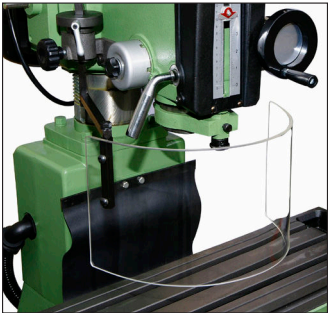
Drilling & Milling Machine Guards

Swing-Away Adjustable Safety Guard

Designed specifically for use on mill/drill machines, vertical turret milling machines and larger size drilling machines, these shields are intended to deliver protection by deflecting chips, sparks, coolant or lubricants away from the operator and others in the work area. The unit is made of strong cast iron brackets and high impact polycarbonate which offers the operator clear and safe vision during the machining process. The height clearance is easily adjusted with convenient locking knobs located on the mounting bracket and the large shield easily swings in or out allowing instant access for cutting tool and tool holder changes.



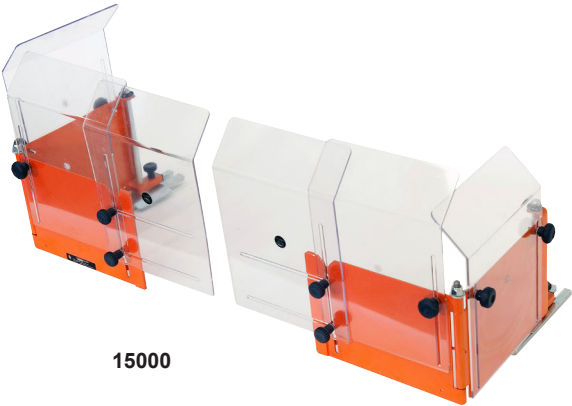
Description	L	W	H	Item No.
For use with Swing away Guard mill/drills, turret milling machines & large drill presses	16"	13.5"	8"	15035



Milling Machine Guard

Guard mounts in the table T-slots. Capacity is 18.7" to 49.2". Both vertical and horizontal adjustment of visors around machine cutters. Front is hinged for easy access opening to tooling and workpiece. Steel frame construction with extra large adjustable polycarbonate visors included, t-slot nuts. Ideal for vertical turret mills and other manual milling machines. Complies with BS EN 292 Safety of Machinery guard guidelines.

Description	Fits T-slots	L	H	Item No.
For use with T-slotted machine tables	5/8"	18.7 to 49.2"	9.8 to 17.7"	15000



The Palmgren Tapping Solution

The use of a Palmgren parallel arm tapping machine in combination with primary operations will generate savings through improved operator utilization, reduced set-up time, reduced material handling, and improved material flow. They are the right choice to create a profitable manufacturing cell when coupled with any CNC or manually operated machine tool. When used in conjunction with a CNC machining center, profitability

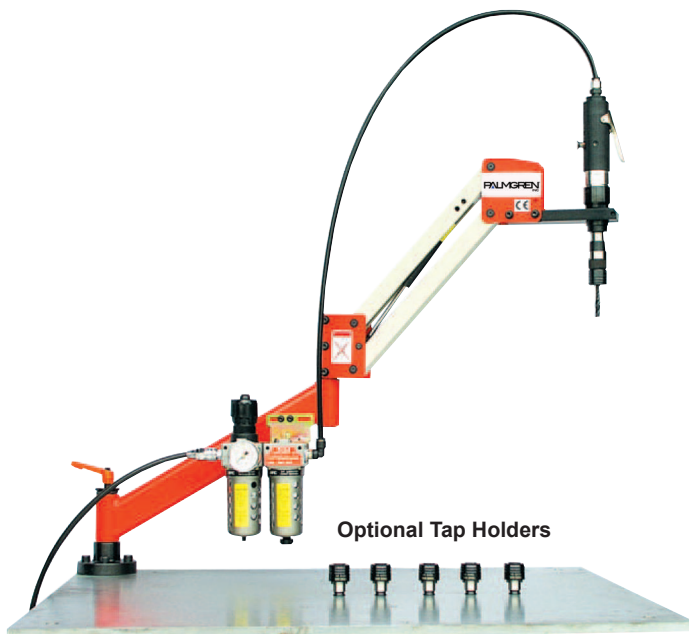
is increased through additional hourly production. Coupled with the savings through the elimination of costly tool holders and additional programming time a tapping arm easily pays for itself in no time. The elimination of tapping on your machining centers can actually save between 30% to 40% or more.

- Taps both blind and through holes
- Faster tapping cycles
- Greater thread quality and accuracy
- Easy to operate
- Extends tap life
- Eliminates broken taps
- Faster tap positioning with difficult locations- easier to reach holes

- No indexing or laborious handling of work pieces
- Increases productivity – lowers tapping cost per part
- Can be applied to many other shop uses and applications

Quick-Tap

Palmgren's Quick-Tap pneumatic tapping machine is suitable for small, medium and large size taps. The arm is equipped with lubricated for life bearings at all swivel points, provides weightless operation through the use of gas counter balance springs and permits the operator to bring the tap to the hole with ease.



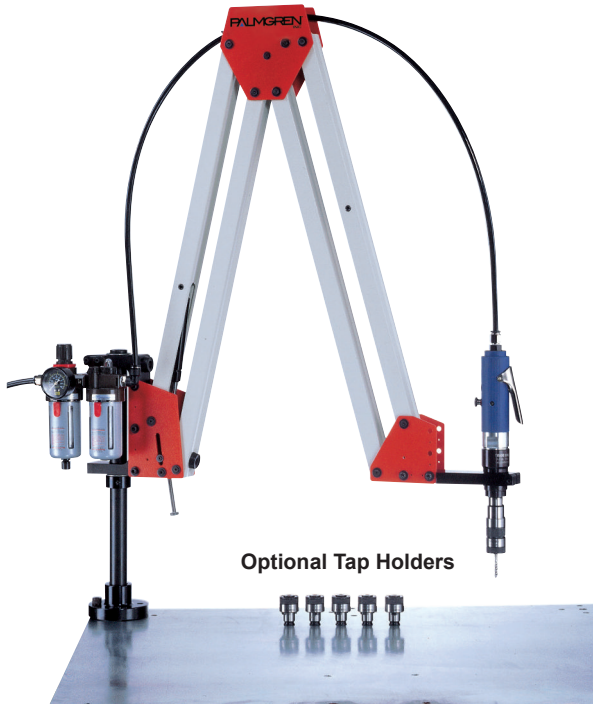
Standard Equipment

- Parallel arm with 43" reach
- Stationary bench bracket
- Quick change tooling adaptor
- Air preparation unit with lubricator, filter, regulator and pressure gauge
- Vertical motor bracket
- High torque reversible air motor
- See page 4 for optional tap holders

Model:	80420	80421
Motor (RPM):	400	700
Torque @ 90 PSI (ft/lbs.):	27	16
Air Consumption (CFM):	24	24
Max. Tap Capacity/Mild Steel:	1/2"	3/8"
Max. Tap Capacity/Aluminum:	9/16"	1/2"
Quick change tooling size:	1	1

Shop-Tap

Palmgren's Shop-Tap pneumatic tapping machine is a medium duty general purpose machine suitable for tapping small to medium size taps. The arm is equipped with lubricated for life bearings at all swivel points, provides weightless operation through the use of gas counter balance springs and permits the operator to bring the tap to the hole with ease.



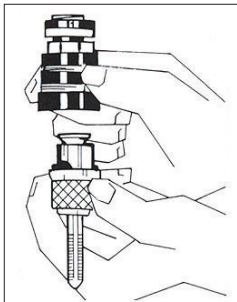
Standard Equipment

- Parallel arm with 57" reach
- Stationary bench bracket
- Quick change tooling adaptor
- Air preparation unit with lubricator, filter, regulator and pressure gauge
- Vertical motor bracket
- High torque reversible air motor
- See page 4 for optional tap holders

Model No.:	ST400	ST700
Motor (RPM):	400	700
Torque @ 90 PSI (ft/lbs.):	27	16
Air Consumption (CFM):	24	24
Max. Tap Capacity/Mild Steel:	1/2"	3/9"
Max. Tap Capacity/Aluminum:	9/16"	1/2"
Quick change tooling size:	1	1

Torque Drive Tap Holders

No matter the size of tap – the right choice of tap holder is a clutch style torque drive tap holder. These holders make tapping blind holes easy. The torque clutch allows the tap to stop turning when it becomes dull or encounters any obstruction that might cause the tap to break, and it is adjustable for all types of materials. The quick change tap holder allows you to change from one size tap to another in 3 to 5 seconds.



Tap adapters change easily by sliding chuck sleeve until adapter is free.



Torque drive tap holder shown with tap.



Drill chuck with size 1 quick change adaptor.

- | | |
|--------------|--|
| 80500 | Size 0-6 Tap holder with clutch |
| 80501 | Size 8 Tap holder with clutch |
| 80502 | Size 10 Tap holder with clutch |
| 80503 | Size 12 Tap holder with clutch |
| 80504 | Size 1/4" Tap holder with clutch |
| 80505 | Size 5/16" Tap holder with clutch |
| 80506 | Size 3/8" Tap holder with clutch |
| 80508 | Size 1/2" Tap holder with clutch |
| 80515 | 3/8" Drill chuck with quick change adaptor |

Tap holders and drill chuck for Quick-Tap & Shop-Tap

Vertical, Miter & Horizontal Band Saws

Vertical Band Saws

Palmgren's wood/metal vertical band saws are two saws in one especially designed to effectively cut a variety of materials including wood, plastic, composites, ferrous and non-ferrous metals. They feature a unitized welding steel frame construction, cast blade wheels, large ground cast iron work table that tilts up to 45 degrees, adjustable precision bearing blade guides, hinged wheel covers and convenient blade tensioning wheel for easy accessibility and fast blade changing and adjustments, 4" dust port and rip fence. Each unit comes with 1 wood and 1 metal blade.

Standard features (83115 & 83118):

- Rip fence
- Miter gauge
- Chip blower
- Chip chute
- Extra wide speed range



83115



83118



83112

Type	Motor Voltage	HP	Speeds (FPM)	Throat Depth	Cutting Capacity (In.)			Miter Capacity (Deg.)	Max. Blade Length (In.)	Max. Blade Width (In.)	Blade Thickness (In.)	Overall Dim. (In.)			Table Dimen. (In.)	Item No.
					Round	Rectangle	Square					H	W	D		
12" Floor Wood/Metal	120	3/4	80 to 3000	12	7	7 x 2	7	45	89-1/2	3/16 to 3/4	0.025	64	25-3/4	30	18-7/8 x 15-3/4	83112
15" Floor Wood/Metal	115/230	1	45, 65, 90, 110, 155, 215, 3000	15	10	10 x 15	10	90	114	3/16 to 3/4	0.035	78	20	23	15 x 15	83115
18" Floor Wood/Metal	115/230	1-1/2	45, 65, 90, 110, 155, 215, 3000	18	12	12 x 17-3/4	12	90	133	3/16 to 1	0.035	80	29	24	19 x 19	83118

Miter Band Saw

Palmgren's 10" miter band saw cuts all types and shapes of materials quickly and effectively. The workpiece remains fixed while the saw head accurately swivels left or right to cut any angle from 0 to 45 degrees. This economical band saw has heavy duty steel construction for added rigidity and vibration free performance. It comes complete with adjustable blade guides for accurate square cuts, rapid acting vise, dual roller in-feed table for faster workpiece positioning and

support, one step conversion of the saw head from a horizontal to a vertical saw, built-in protractor for fast and accurate selection of angles to be cut, large heavy duty rubber wheels with telescoping handle for easy portability and movement, hydraulic feed system and three speeds. The **83310** can be converted to a wet saw for those applications that require coolant by ordering the **83309** coolant system option.



83310



83310
with optional 83309
coolant system

Type	Motor Voltage	HP	Speeds (FPM)	Cutting Capacity (In.)			Capacity (Vert.) Hgt. Max. / Throat	Miter Capacity (Deg.)	Max. Blade Length (In.)	Max. Blade Width (In.)	Blade Thickness (In.)	Overall Dim. (In.)			Item No.
				Round	Rectangle	Square						H	W	D	
10" Dry Cut	115/230	1	64, 124, 221 7 at 45° 8 x 8 at 45°	10 at 90°	8 x 10 at 90°	10	13 / 9	0-45	120	1	0.035	45	51	25	83310
Coolant System for 83310															83309

13" x 19" Miter Band Saw

Palmgren's 13" x 19" horizontal miter band saw provides flexibility and value for those applications that require cut off of medium to large work pieces or parts that have many angle cuts. The workpiece remains fixed while the saw head swivels left or right to cut any angle from 0 to 60 degrees fast and easily. Heavy duty cast iron and steel construction provides full blade support while eliminating vibration and deflection.

A variable speed drive system enables the operator to fine tune blade speed easily to maximize the performance of

today's bi-metal saw blades. This unit comes complete with top load blade for faster and easier set-ups, adjustable blade guide assemblies with 6 contact points using cam follower bearings and carbide pads for straight, accurate cuts. Flood coolant system with chip flushing hose and counter balanced hydraulic feed system to insure smooth, constant feed pressure on the blade.



83313

Type	Motor Voltage	HP	Speeds (FPM)	Cutting Capacity (In.)			Miter Capacity (Deg.)	Max. Blade Length (In.)	Max. Blade Width (In.)	Blade Thickness (In.)	Overall Dim. (In.)			Item No.
				Round	Rectangle	Square					H	W	D	
13" x 19" Horz. Wet Cut	230	2	98 to 393	13	5 x 19	13	60	150	1	0.035	51	87	48	83313

Miter Band Saw

Palmgren's **83304 & 83306** professional line-up of bench top band saws come with large cutting capacities and have the power to deliver accurate, fast cuts. Easy to carry and position where needed these lightweight portable units are loaded with quality features. Ergonomic hand grip with built-in start/stop switch, powerful motor equipped with electronic speed control for consistent blade speed, the saw head swivels and locks for fast, easy miter cutting keeping the workpiece fixed and a heavy duty base with integrated vise for accurate secure clamping.

83304
83306

Type	Motor Voltage	HP	Speeds (FPM)	Cutting Capacity (In.)			Miter Capacity (Deg.)	Max. Blade Length (In.)	Max. Blade Width (In.)	Blade Thickness (In.)	Overall Dim. (In.)			Item No.
				Round	Rectangle	Square					H	W	D	
4" Bench Dry Cut	115	1/2	100-250	4-3/4	4 x 5	4-3/4	60	56-1/2	1/2	0.025	16-1/2	28	12-1/2	83304
6" Bench Dry Cut	115	2-1/2	100-250	6	2-1/2 X 6	6	60	68-1/4	1/2	0.025	19	35	14	83305

Arbor Presses

The Palmgren arbor press delivers the heavy force needed for riveting, squeezing, punching, bending, and other pressing applications. Sturdy, cast-iron construction. Removable machined steel anvil provides accurate work support in four slot positions. Rugged steel ram is driven by a machined pinion. Punches or tools may be added to the end of the ram with the aid of a magnetic insert. Base drilled for mounting on a bench or pedestal.

Arbor Press #61101 is equipped with a handwheel to perform light and quick press work.

The Palmgren Arbor Press #61302 Ratcheting 3 Ton Arbor Press allows the operator to maintain the arm in the optimal leverage position with consistent application of force.

In addition, the Ratcheting Arbor Press #61302 has more clearance over the table for broaching or pressing large items. It is counterweighted for rapid handle return and has a quick ram advance via the press's side-mounted handwheel. The Palmgren Arbor Press #70103 Arbor Press Stand provides a sturdy base and optimal height for easy operation. It has a slot on the top for pieces which need to extend below the base of the press table. Stand comes with built-in cup for catching expressed pieces. Base and top are cast iron with a body of welded steel.

Fits all 2-4 ton presses.

All units except the 61302 come with a depth stop that securely clamps to the ram and will withstand full pressure. A lockable fine adjustment adjusting screw accurately limits the depth of the ram stroke. The ram is reversible with one end solid and the other end with a hole and magnet to hold bits and tools. Each arbor press comes with a three piece bit set - 1 pointed, 1 round and 1 square end bit, and a removable steel anvil. The base is machine to hold the three bit set and pre-drilled for mounting.



61201



61302

61101



**Arbor Press Stand fits
all 2-4 ton presses:
61201,61301 , 61302,61401**

Model No.	Top Dimension (In.)	Base Dimension (In.)	Height (In.)	Weight (Lbs.)
Arbor Press Stand				
70103	11-3/4 x 21-15/16	11-15/16 x 22-3/16	36	88

Model No.	Force (ton)	Lever Ratio	Swing (In.)	Anvil Diameter (In.)	Max. Work Height (In.)	Ram Dimensions (In.)	Height (In.)	Base Dimensions (In.)	Weight (lbs.)
61051	.05	18.1:1	6-1/2	3-1/2	4-5/8	3/4 x 3/4	9-1/4	5-1/8 x 9-5/16	18
61101	1.0	18.0:1	8	4-7/16	6	1 x 1	11	6-1/8 x 10-9/16	30
61201	2.0	19.0:1	10-3/8	6-3/4	7-7/8	1-1/4 x 1-1/4	15-1/8	8 x 16	70
61301	3.0	16.9:1	11-3/4	6-3/4	12-1/2	1-1/2 x 1-1/2	21-1/2	9-1/2 x 17-3/4	135
61302	3.0	38.6:1	13-3/4	8	17-3/4	1-1/4 x 1-1/4	27-3/4	10 x 21-3/8	212
61401	4.0	25.7:1	16-7/8	9-3/4	15-3/8	1-3/4 x 1-3/4	27-1/8	10-3/4 x 21	207

Stands

Universal Floor Stand

Palmgren 70102 Floor Stand is made of all steel. The hole pattern in 10 gauge table top fits all Palmgren bench tools as well as many other bench top products. The table top is large enough to accommodate two bench tools, if desired.

Item No.	Model No.	Top Dimension (In.)	Overall Dimension (In.)	Weight (lbs.)
70102	70102	15 x 25	23 D x 33W x 28H	38



Bench Tool Stand

The Palmgren Bench Tool Stand is designed to accommodate most 6", 7", 8", and 10" bench grinders and bench buffers on the market. Base and top are made of heavy-duty cast iron with; adjustable steel column is 3 "h" diameter. Built-in water pot provides quenching for workpiece. Unique design allows mounting with 4 bolts.

Item No.	Model No.	Diameter (In.)	Table Size (In.)	Height (In.)	Base Size (In.)	Weight (lbs.)
70101	GS32	3-1/2	10 x 11	31-3/4	15 x 16-1/2	59

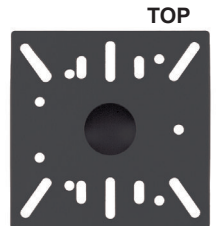


Material Support Stands

The Palmgren material support stands are made of heavy duty cast iron and steel for handling heavy loads of stock-up to 2,000 lbs. A clamping mechanism on the column allows for quick and easy height adjustments. Locking screws provide added safety. Stand can be ordered with either a Horizontal

Head or a V-Roller Head. Replacement heads are available. The Horizontal Head is a chrome-plated, 2" x 14" ball bearing roller head designed to smoothly move up to 2,000 lbs. of flat stock.

The V-Roller Head consists of two chrome-plated 2" x 5" ball bearing roller heads designed to smoothly move up to 2,000 lbs. round stock 1" to 18" diameter.



Item No.	Model No.	Weight Holding Capacity (lbs.)	Length of Horizontal Roller (In.)	Min. Stock Diameter (In.)	Max. Stock Diameter (In.)	Height Range (In.)	Base Size (In.)	Weight (lbs.)
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Material Support Stands

70141	MSH14	2000	14	-	-	23 - 38-1/2	15 x 16-1/2	47
70181	MSV18	2000	14	-	-	23 - 38-1/2	15 x 16-1/2	47

Horizontal Head (without Pedestal)

70182	MHR14	2000	14	-	-	-	-	15
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V-Roller Head (without Pedestal)

70183	MVR18	2000	-	-	18	-	-	15
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Stand Cross Reference Chart

	Bench Tool Stand 70101	Universal Floor Stand 70102	Arbor Press Stand 70103
For Tool Type			
1/2 Ton Arbor Press		X	
1 Ton Arbor Press		X	
2 Ton Arbor Press		X	X
3 Ton Arbor Presses			X
4 Ton Arbor Press			X
Bench Top Drill Presses		X	
Bench Top Grinders	X	X	
Bench Top Buffers	X	X	
Bench Grinders	X		

Notes

[illegible]

Notes

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Our History



Since 1919 Palmgren has been a leader in the metalworking market. Founded by Clarence Palmgren, a graduate of Illinois Institute of Technology; Clarence is credited with the design and manufacture of machine vises and rotary tables that gave impetus to the metalworking industry. Still today, Palmgren is the market share leader and synonymous with Drill Press vises and work-holding.

We continue Clarence Palmgren's legacy with taking our experience and know how and melding them into stationary tools designed for the machinist.

For more than 90 years Palmgren has enjoyed a well- deserved reputation for superior quality and performance and proudly backs all of its products with an industry-leading lifetime warranty.



Headquartered near Chicago, Illinois, the C. H. Hanson Company has been a family-owned and managed operation since 1866. The company has demonstrated throughout its history, the ability to innovate both products and merchandising methods.

C. H. Hanson is quick to respond to changing market needs with new products, new merchandising and new packaging. The company is strategically focused on significant product expansion through partnerships with the end-user to create tools that make job site tasks easier, faster, and safer.

PALMGREN

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