



DRILLING CATALOG

DRILL PRESSES BENCH fact sheet

8" BENCH DRILL PRESS

Dayton's light 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
- 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
- Spindle depth stop
- Front mounted safety, locking rocker switch
- Drill chuck & key

Dimensions:

Item # 40PM08 - 23" H x 8" W x 17" D



Item #	Swing (in.)	Motor HP	Volts	Amps AC	Capacity Cast Iron	Spindle Speeds	RPM	Spindle Taper	Spindle Travel	Spindle to Table	Table Work Surface	Table Slots
40PM08	8"	1/3	115	2.5	3/8"	5	760-3070	JT33	2"	8-1/4"	6-1/4" x 6-1/4"	1/2"

10" BENCH DRILL PRESS

This 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.

- Durable cast iron head, table and 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 and clamping of workpiece
- Laser alignment
- Spindle depth stop
- Front mounted safety, paddle on/off switch
- Drill chuck & key

Dimensions:

Item # 16N196 - 11.25" W x 27.5" H x 19.25" D



Item #	Swing	Motor HP	Volts	Amps AC	Capacity Cast Iron	Spindle Speeds	RPM	Spindle Taper	Spindle Travel	Spindle to Table	Table Work Surface	Table Slots
16N196	10"	1/3	115	4.1	1/2"	5	620-3100	JT33	2-1/2"	10-11/16"	7-13/16" x 7-13/16"	1/2" W x 4-11/16" L

DRILL PRESSES RADIAL ARM fact sheet

RADIAL ARM DRILL PRESSES

An extended reach, tilting drill head is ideal for large or odd-shaped work pieces. The table tilts 45° left or right allowing easy machining of holes at almost any angle.

- Durable cast iron head, table & base
- Spindle supported by high quality ball bearings
- Rack and pinion table raiser
- Table tilts 45° right & left and swivels 360° around the column
- 1/2" through table & base slots for easy mounting and clamping of workpiece
- Front mounted safety, paddle on/off switch
- Drill chuck & key
- The head tilts 90° left and 45° right
- The head of the drill press moves 12-1/2" forward or backward

Dimensions:

Item # 40PM15 - 37" H x 10" W x 33" D

Item # 40PM17 - 65" H x 14" W x 33" D



Item #	Swing	Motor HP	Volts	Amps AC	Capacity Cast Iron	Spindle Speeds	RPM	Spindle Taper	Spindle Travel	Spindle to Table	Table Work Surface	Table Slots
40PM15	11" to 33"	1/2	115	5.5	5/8	5	600-2952	MT2	3-5/32"	15"	8-7/8" x 9"	1/2"
40PM17	11" to 33"	1/2	115	5.5	5/8	5	600-2952	MT2	3-5/32"	30"	10-3/8" x 10-3/8"	1/2"

38.5" BENCH RADIAL DRILL PRESSES

This versatile drilling machine is specially designed to handle a wide range of drilling and boring applications. Equipped with a sturdy hardened quill and spindle for added strength and wear. The drilling head is mounted on a precision ground way with adjustable bearings so it is easily and accurately moved along the radial arm.

- Heavy duty high tensile strength cast iron frame, base, column and table
- Fully enclosed spindle with spaced bearings for maximum spindle support and accurate drilling & boring operations
- Maximum spindle run out 0.0005"
- Extended quill/spindle travel for deep hole applications
- Arm & drill head rotates 360 degrees around the column
- 5 speed step pulley drive train
- Rack and pinion arm raiser
- Head lock to securely position drill head on radial arm
- Precision ground T-slot base and box table
- Drill chuck, key and arbor
- Box table has t-slots machined on two sides and can be easily removed for machining in the larger base work area
- Manual spindle reversing switch is mounted on the front side of the drill head for convenient use for tapping applications

Dimensions:

Item # 39RW33 - 51" H x 15.5" W x 32" D

Optional Accessories:

Item # 39RW34 - Radial Arm Drill Press Stand



*Shown on optional 39RW34 floor stand



Box table has t-slots machined on two sides and can be easily removed for machining in the larger base work area



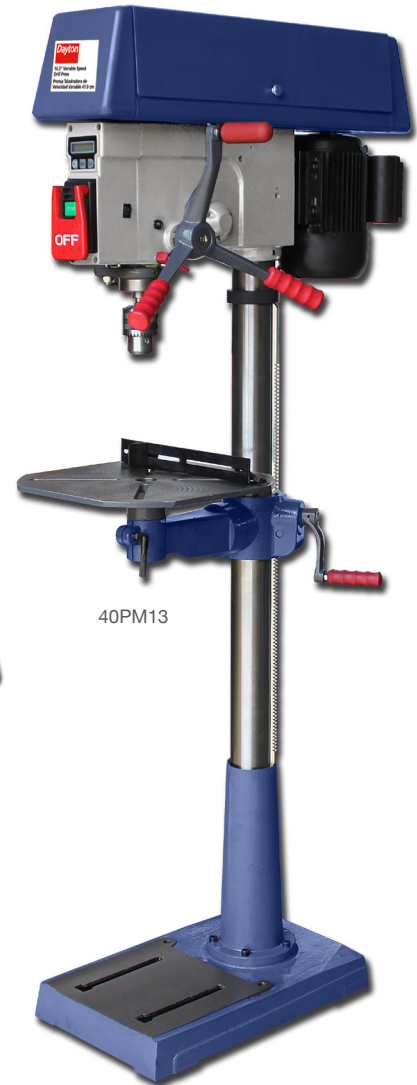
Manual spindle reversing switch is mounted on the front side of the drill head for convenient use for tapping applications

Item #	Swing	Motor HP	Volts	Amps AC	Capacity Cast Iron	Spindle Speeds	RPM	Spindle Taper	Spindle Travel	Spindle to Table (Min)	Spindle to Table (Max)	Table Work Surface	Table Slots
39RW33	12 - 38.5	1-1/2	115/230	22/11	1-1/4"	5	340 - 3000	3MT	5-1/2"	7"	25"	19-5/8" x 21-3/4"	5/8"

HEAVY DUTY VARIABLE SPEED FLOOR MODEL DRILL PRESSES

Dayton's heavy duty variable 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.

- 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° right and left and rotates 360° 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 key and arbor



40PM13



40PM11

Item #	Swing	Motor HP	Volts	Amps AC	Capacity Cast Iron	Spindle Speeds	RPM	Spindle Taper	Spindle Travel	Spindle to Table	Table Work Surface	Table Slots
40PM11	12"	1/3	120	6.0	5/8"	Vari	770-3160	JT33	2-9/16"	16-3/4"	9.4" x 9.4"	1/2"
40PM13	16.5"	3/4	120/240	9.0/4.5	5/8"	Vari	260-2040	MT2	5"	25"	12" x 12"	1/2"

5 Call or visit your local branch or go to grainger.com/dayton for complete product line information.



DRILL PRESSES BENCH fact sheet

HEAVY DUTY 16-SPEED BENCH DRILL PRESSES

Dayton'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.

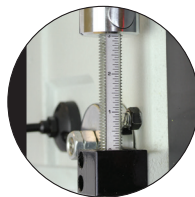
- Fully enclosed spindle for accurate drilling operations
- Maximum spindle run out of 0.0005"
- Extended quill/spindle travel ideal for deep hole applications
- LED readout of spindle speed and quill travel
- Rack and pinion table raiser
- Precision ground t-slotted work table with coolant trough
-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

Dimensions:

Item # 38TG99 - 38-7/8" H x 9-3/4" W x 16-1/2" D



LED Read Out
Industrial Paddle
Style Switch



Quick Change
Depth Stop

Item #	Swing (in.)	Motor HP	Volts	Amps AC	Capacity Cast Iron	Spindle Speeds	RPM	Spindle Taper	Spindle Travel	Spindle to Table	Table Work Surface	Table Slots
38TG99	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"

DRILL PRESSES FLOOR MODEL fact sheet

HEAVY DUTY 16-SPEED FLOOR MODEL DRILL PRESSES

Dayton'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.

- 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° right and left and rotates 360° 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 key and arbor

Dimensions:

- Item # 5PCH3 - 66" H x 12-3/4" W x 19-3/4" D
- Item # 5PCH4 - 69-3/4" H x 17-5/8" W x 22-1/2" D
- Item # 16N197 - 69-3/4" H x 17-5/8" W x 22-1/2" D



Item #	Swing	Motor HP	Volts	Amps AC	Capacity Cast Iron	Spindle Speeds	RPM	Spindle Taper	Spindle Travel	Spindle to Table	Table Work Surface	Table Slots
5PCH3	17"	1	120/240	10.2/5.1	5/8	16	138-3476	MT2	5"	25"	11-1/2" x 13"	1/2"
5PHC4	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"
16N197	20"	1.5	240/480	4.7/2.3	1-1/4	16	120-3605	MT3	6"	26-3/8"	16-5/8" x 18-5/8"	1/2"

FLOOR STEP PULLEY DRILL PRESSES

Dayton premier line of step pulley drill presses have a wide range of speeds and are constructed through-out to form a solid base for heavy, accurate continuous use. The pulleys are long wearing aluminum alloy, fully machined and balanced.

Combined with a Gates 7M industrial V-ribbed V-belt that delivers better gripping and power with a service life of 10,000 hours. Speed changes are fast and easy – our exclusive quick change handle and motor spring plate provides consistent, proper tension from the motor to the belt and pulleys all the time. The fully enclosed machine tool spindle has a concentricity of 0.0005" at the spindle nose.

These drills can be used to perform all hole making operations – drilling, tapping, reaming, boring, spot-facing, counter-boring and chamfering in any type of material.

OTHER STANDARD FEATURES INCLUDE:

- Built in halogen work light
- Forward & reverse switch
- Drill depth stop
- Digital depth gauge (Item #53UH03)
- Digital speed display (Item #53UH03)
- T-slotted table and base
- Interlocking spindle safety guard
- Electric interlock on the pulley cover
- Magnetic overload protection
- Built in tool ejector (on all but the 53UG96)
- Chuck and arbor

Item #	53UG98 Floor	53UH03 Floor
Electric Supply		
Motor	1HP / 115V / 1PH	3HP / 230V / 3PH
Drilling Capacity		
Drilling capacity in steel	Ø 28 mm / 1.103"	Ø 34 mm / 1.336"
Working range	16"	22"
Quill travel	105 mm / 4.134"	160 mm / 6.299"
Spindle Taper		
Spindle Taper	MT 3	MT 4
Speeds		
Spindle speeds	145 - 4800 rpm	150-4000 rpm
Number of pulley steps	16 steps	2 x 9 steps
Drilling Table		
Table size L x W	340 x 360 mm / 13.386" x 14.173"	420 x 400 mm / 16.535" x 15.748"
T-slot size	14 mm / .551"	14 mm / .551"
Distance spindle - table (max.)	860 mm / 33.858"	790 mm / 31.102"
Working surface base L x W	320 x 320 mm / 12.598" x 12.598"	390 x 370 mm / 15.354" x 14.567"
Distance spindle - base (max.)	1275 mm / 50.197"	1025 mm / 40.354"
Dimensions		
Column diameter	92 mm / 3.622"	115 mm / 4.528"
Length	698 mm / 27.480"	918 mm / 36.142"
Width	449 mm / 17.677"	585 mm / 23.032"
Height	1721 mm / 67.776"	1895 mm / 74.606"
Net weight	140 kg / 309 lbs.	274 kg / 605 lbs.



BENCH STEP PULLEY DRILL PRESSES

Dayton premier line of step pulley drill presses have a wide range of speeds and are constructed through-out to form a solid base for heavy, accurate continuous use. The pulleys are long wearing aluminum alloy, fully machined and balanced.

Combined with a Gates 7M industrial V-ribbed V-belt that delivers better gripping and power with a service life of 10,000 hours. Speed changes are fast and easy – our exclusive quick change handle and motor spring plate provides consistent, proper tension from the motor to the belt and pulleys all the time. The fully enclosed machine tool spindle has a concentricity of 0.0005" at the spindle nose.

These drills can be used to perform all hole making operations – drilling, tapping, reaming, boring, spot-facing, counter-boring and chamfering in any type of material.

OTHER STANDARD FEATURES INCLUDE:

- Built in halogen work light
- Forward & reverse switch
- Drill depth stop
- T-slotted table and base
- Interlocking spindle safety guard
- Electric interlock on the pulley cover
- Magnetic overload protection
- Built in tool ejector (on all but Item #53UG96)
- Chuck and arbor

Item #	53UG96 Bench	53UG97 Bench
Electric Supply		
Motor	1HP / 115V / 1PH	1HP / 115V / 1PH
Drilling Capacity		
Drilling capacity in steel	Ø 24 mm / .945"	Ø 28 mm / 1.103"
Working range	13"	16"
Quill travel	85 mm / 3.347"	105 mm / 4.134"
Spindle Taper		
Spindle Taper	MT 2	MT 3
Speeds		
Spindle speeds	420-4800 rpm	262-4075 rpm
Number of pulley steps	7 steps	16 steps
Drilling Table		
Table size L x W	280 x 300 mm / 11.024" x 11.811"	340 x 360 mm / 13.386" x 14.173"
T-slot size	14 mm / .551"	14 mm / .551"
Distance spindle - table (max.)	515 mm / 20.276"	685 mm / 26.968"
Working surface base L x W	280 x 260 mm / 11.024" x 10.236"	320 x 320 mm / 12.598" x 12.598"
Distance spindle - base (max.)	681 mm / 26.811"	1275 mm / 50.197"
Dimensions		
Column diameter	80 mm / 3.150"	92 mm / 3.622"
Length	665 mm / 26.181"	698 mm / 27.480"
Width	434 mm / 17.087"	449 mm / 17.677"
Height	998 mm / 39.292"	1066 mm / 42"
Net weight	130 kg / 287 lbs.	136 kg / 300 lbs.



53UG97



53UG96

16" VARIABLE SPEED DRILL PRESS

Dayton's highest quality drilling machine is built using the latest drilling technology and operational features that stand up to production output and accuracy. Built with the operator in mind these premier drills combine efficiency, safety and ergonomics giving them an edge over all competitive models. The unique combination of V-belt and variable speed inverter provides the broadest speed range available on the market today. This speed range delivers the power and torque for large hole drilling and the high speed and control for small hole applications - making it ideal for working in a great array of materials. The pulleys are long wearing aluminum alloy, fully

machined and balanced and are driven by a Gates 7M industrial V-ribbed V-belt that delivers all the needed power to the spindle with a service life of 10,000 hours.

This drill uses a brushless DC motor with permanent current control combined with the latest state of the art variable speed inverter designed and built exclusively for metalworking machine tools. The fully enclosed machine tool spindle has a concentricity of .0005" at the spindle nose.

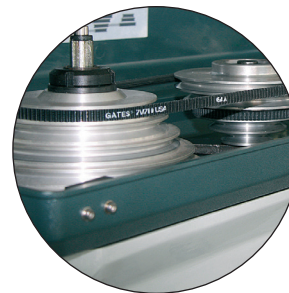
STANDARD FEATURES:

- Built in halogen work light
- Forward and reverse switch
- Tapping mode
- Coolant
- Digital spindle rpm readout
- Interlocking spindle safety guard
- Electric interlock on pulley cover
- Magnetic overload protection
- Built in tool ejector
- Chuck and arbor

Item #	53UG99
Electrical Connection	
Motor	2HP / 230V / 1PH
Drilling Capacity	
Drilling capacity in steel	Ø 28 mm / 1.104 in
Working range	16 in
Quill travel	105 mm / 4.134 in
Spindle Taper	
Spindle Taper	MT3
Speeds	
Spindle Speeds	35 - 4000 RPM
Number of Pulley Steps	12 steps, continuously variable
Drilling Table	
Table Size Length x Width	340 x 360 mm / 13.386" x 14.173 in
T-Slot Size	14 mm / .551 in
Distance Spindle - Table (max.)	860 mm / 33.858 in
Working Surface Stand L x W	320 x 320 mm / 12.598 x 12.598 in
Distance Spindle - Stand (max.)	1275 mm / 50.197 in
Dimensions	
Column Diameter	92 mm / 3.622 in
Length	701 mm / 27.598 in
Width	474 mm / 18.661 in
Height	1755 mm / 69.094 in
Net weight	141 kg / 311 lbs.



These drills can be used to perform all hole making operations – drilling, tapping, reaming, boring, spot-facing, counter-boring and chamfering in any type of material.



Vibration free
Ground aluminum pulleys
Gates 7M industrial V-ribbed V-belt
Service life of the V-belts up to 10,000 operating hours
Increased flexibility reduces heat build-up
More torque than common V-belts

DRILL PRESSES VARIABLE SPEED fact sheet

17" VARIABLE SPEED DRILL PRESS

Dayton's premier line of variable speed drill presses have a wide range of speeds and are constructed through-out to form a solid base for heavy, accurate continuous use. The pulleys are long wearing aluminum alloy, fully machined and balanced.

Combined with a Gates 7M industrial V-ribbed V-belt that delivers better gripping and power with a service life of 10,000 hours. The fully enclosed machine tool spindle has a concentricity of 0.0005" at the spindle nose.

These drills can be used to perform all hole making operations – drilling, tapping, reaming, boring, spot-facing, counter-boring and chamfering in any type of material.

OTHER STANDARD FEATURES INCLUDE:

- Built in halogen work light
- Forward & reverse switch
- Drill depth stop
- Digital depth gauge
- Digital speed display
- T-slotted table and base
- Interlocking spindle safety guard
- Electric interlock on the pulley cover
- Magnetic overload protection
- Built in tool ejector
- Chuck and arbor

Item # 53UH06

Electric Supply

Motor 3HP / 230V / 1PH

Drilling Capacity

Drilling capacity in steel 1.138"

Working range 22"

Quill travel 6.30"

Spindle Taper

Spindle Taper MT4

Speeds

Spindle speeds 73-4000 rpm

Number of pulley steps 9 steps

Drilling Table

Table size L x W 15.75 x 19-5/8"

T-slot size .551"

Distance spindle - table (max.) 31.102"

Working surface base L x W 15-3/8" x 14-1/2"

Distance spindle - base (max.) 50"

Dimensions

Column diameter 4.528"

Length 3.6"

Width 23"

Height 75"

Net weight 605 lbs.



DRILL PRESSES FLOOR MODEL fact sheet

PRODUCTION DUTY 12-SPEED FLOOR MODEL 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 raiser easily positions the workpiece and fixture at the proper height. This drill delivers performance and reliability at an economical price.

- Cast iron head, table and base
- Maximum spindle runout of 0.0005"
- Extended quill travel
- Rack and pinion table raiser
- Spindle depth stop
- Front mounted push button on/off switch
- Heavy duty, precision ground, T-slotted work table with coolant trough
- Heavy duty spindle bearings
- Drill chuck and arbor.

Dimensions:

Item # 49G986 - 70" H x 25-1/2" W x 33" D



Item #	Swing	Motor HP	Volts	Amps AC	Capacity Cast Iron	Spindle Speeds	RPM	Spindle Taper	Spindle Travel	Spindle to Table	Table Work Surface	Table Slots
49G986	20"	1	120/240	16/8	1-1/4"	12	140 to 2600	MT3	5"	26"	13" x 15"	5/8"

20" VARIABLE SPEED DRILL PRESS

With the Dayton 20" variable speed drill press you can dial the best rpm for the tool and material while the job is running. Simple hand wheel adjustment sets the speeds and immediate rpm reading appears on the front face of the machine. The heavy duty cast iron construction forms a solid base for all your drilling operations with an oversized precision machined drill head, extended quill travel and a 4-1/2" column the Dayton 20" variable speed drill will handle more jobs better and faster.

STANDARD FEATURES:

- Heavy duty precision drill head has all the bearing surfaces precision bored simultaneously for exact alignment
- 3 MT fully enclosed machine tool spindle with 6" travel and a 3" quill diameter
- Full bearing support with radial thrust and ball bearings minimizes tool deflection and increases spindle accuracy
- LED spindle speed readout
- Front mounted positive control depth stop
- Large precision ground t-slotted table with coolant trough
- Front or side operated rack and pinion table raiser
- Table rotates 360 degrees around the column
- Precision ground base work surface with t-slots for large workpieces
- Ergonomic side mounted hand wheel for instant speed changes



Item # 48WE32

Drive Type	Belt
Swing	20.8"
Spindle Taper	MT3
Motor	2HP / 115/230V - 1PH / 60Hz
Capacity Steel	1-1/4"
Capacity Cast Iron	1-1/2"
Number of Speeds	Variable
Chuck Size	N/A
Spindle Speed	300 - 2000 RPM
Spindle Travel	6"
Base Size	27" x 19"
Table Work Surface	22" x 18-1/2"
Number of T-Slots	2
Table Slot Size	5/8"
Column Dia.	4-1/2"
Max. Spindle To Base	43 - 11/32"
Quill Dia.	3"
Spindle to Table	30-1/2"
Dimensions (W x L x H)	22 - 13/16" x 35 - 19/32" x 76 - 19/32"
Includes	<ul style="list-style-type: none"> • Forward and Reverse Switch • Speed Digital Readout • Hand-Wheel for fast speed changes

UPRIGHT GEAR HEAD DRILL PRESSES

This very rugged drill press is the ideal choice for medium – to heavy duty – large hole making production and is built with performance features to withstand continuous industrial use.

This drill is built to last even in the most adverse working conditions. Large heavy cast iron construction for maximum stability with all gear drive hardened and ground steel gears that operate in an oil bath with 18 speeds to choose from. Tempered, ground spindle with internal taper mounted in precision bearings for maximum accuracy, 6 spindle power feed rates with electromagnetic clutch, power feed is engaged by push button located in the three spoke hand feed lever.

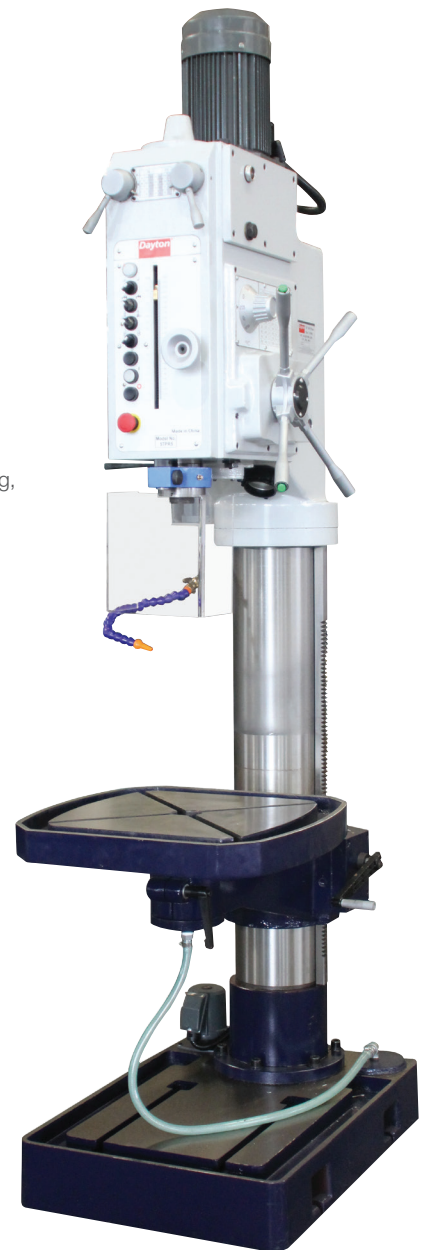
These drills can be used to perform all hole making operations – drilling, tapping, reaming, boring, spot-facing, counter-boring and chamfering in any type of material.

STANDARD FEATURES:

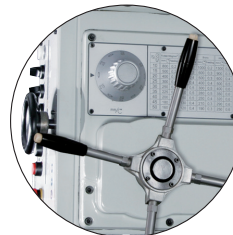
- Tapping mode
- Built in halogen work light
- Hand wheel for fine feed of spindle
- Coolant system
- Electronic interlock spindle safety guard
- Automatic tool ejector

Item # 53UH07

Electrical Connection	
Motor	3HP/4HP / 230V / 3PH
Motor Coolant Pump	40 W / .054 HP
Drilling Capacity	
Drilling Capacity in Steel	Ø 50 mm / 2 in
Threading in Steel	M 42 / 1-5/8 in
Drilling Capacity in Cast Iron	Ø 60 mm / 2-3/8 in
Tapping in Cast Iron	M 50 / 2 in
Working Radius	375 mm / 14.75 in
Sleeve Travel	230 mm / 9 in
Spindle Taper	
Spindle Taper	MT4
Automatic Spindle Sleeve Feed	6 steps, .002 / .012 in/rev
Speeds	
Spindle Speeds	50 - 2090 RPM
Number of Steps	18 Steps
Drilling Table	
Working Surface Table L x W	600 x 600 mm / 23-5/8" x 23-5/8 in
T-Slot Size	18 mm / 3/4 in
Distance Spindle - Table (max.)	800 mm / 31-1/2 in
Working Surface Stand L x W	600 x 520 mm / 23-5/8" x 20-7/16 in
Distance Spindle - Base (max.)	1300 mm / 51 in
Dimensions	
Column	200 mm / 7-7/8 in
Length	1016 mm / 40 in
Width	610 mm / 24 in
Height	2454 mm / 97 in
Net weight	950 kg / 2095 lbs.



9 selectable speeds via gear shifting lever at the front of the drill head combined with a two-stage motor provides 18 spindle speeds



Automatic spindle feed with electromagnetic clutch

For deep hole drilling the automatic spindle sleeve feed can be engaged or disengaged at any time by actuating the push button switches

DRILL PRESSES GEAR HEAD fact sheet

18" GEAR HEAD BENCH DRILL PRESSES

This versatile all gear drive drill press is ideal for precision drilling applications and continuous industrial use. The all gear drive transmission delivers full power at any speed, driving the cutting tools at nearly 100% of the available motor horsepower. This drill utilizes the combination of steel and reinforced fiber gears to ensure positive, quiet operation. All clutches are made of ground steel for added performance and strength. The wide speed range makes this drill ideal for drilling small to large diameter holes fast and easily.

STANDARD FEATURES:

- Wide speed range with 8 different speeds
- Simple knob selectors for operator ease in changing spindle speeds
- Fully enclosed machine tool spindle with internal 3 MT mounted in precision bearings for maximum accuracy, minimizing deflection
- Front mounted control panel designed for operator convenience
- Forward & reverse spindle switch
- T-slotted production table and base
- Rack and pinion table raiser
- Front mounted dial adjusted work stop
- Interlocking chuck guard

Item # 53UH01

Drive Type	Gear Head
Swing	18"
Spindle Taper	MT3
Motor	1-1/2HP / 2HP - 240V - 3Ph - 60Hz
Capacity Steel	1"
Capacity Cast Iron	1"
Power Feed	No
Number of Speeds	8
Chuck Size	5/8"
Spindle Speed	90 - 3480 RPM
Spindle Travel	5"
Base Size	12 - 13/16" x 13 - 13/16"
Table Work Surface	15" x 15"
Number of T-Slots	2
Table Slot Size	1/2"
Column Dia.	3 - 39/64"
Max. Spindle To Base	24"
Quill Dia.	2"
Spindle to Table	17 - 45/64"
Dimensions (W x L x H)	17" x 23" x 51"
Includes	• Chuck Guard



20" GEAR HEAD DRILL PRESSES

This versatile all gear drive drill press is ideal for precision drilling applications and continuous industrial use. The all gear drive transmission delivers full power at any speed, driving the cutting tools at nearly 100% of the available motor horsepower. This drill utilizes the combination of steel and reinforced fiber gears to ensure positive, quiet operation. All clutches are made of ground steel for added performance and strength. The wide speed range makes this drill ideal for drilling small to large diameter holes fast and easily.

STANDARD FEATURES:

- Wide speed range with 8 different speeds
- Simple knob selectors for operator ease in changing spindle speeds
- Fully enclosed machine tool spindle with internal 3 MT mounted in precision bearings for maximum accuracy, minimizing deflection
- Quick release drill ejector
- Front mounted control panel designed for operator convenience
- Forward & reverse spindle switch
- T-slotted production table and base
- Rack and pinion table raiser
- Front mounted dial adjusted work stop
- Interlocking chuck guard
- Work light

Item # 53UH02

Drive Type	Gear Head
Swing	20"
Spindle Taper	MT3
Motor	1-1/2HP / 2HP - 240V - 3PH - 60Hz
Capacity Steel	1 - 1/8"
Capacity Cast Iron	1 - 1/8"
Power Feed	No
Number of Speeds	8
Chuck Size	5/8"
Spindle Speed	90 - 3480 RPM
Spindle Travel	5"
Base Size	12-1/2" x 15 - 13/16"
Table Work Surface	15-1/2" x 14 - 13/16"
Number of T-Slots	2
Table Slot Size	1/2"
Column Dia.	3 - 39/64"
Max. Spindle To Base	47 - 13/64"
Quill Dia.	2 - 23/64"
Spindle to Table	34 - 13/32"
Dimensions (W x L x H)	15" x 25" x 82"
Includes	<ul style="list-style-type: none"> • Chuck Guard • Halogen Light



22" GEAR HEAD DRILL PRESS WITH MECHANICAL CLUTCH POWERFEED

Ruggedly constructed Dayton's 22" gear head drill press delivers full power at any speed and has the operational features to withstand continuous industrial use. This heavy duty drill press uses a mechanical clutch system for the power feed and is built to handle all your drilling, reaming, chamfering, tapping, spot facing and counter boring applications with ease.

STANDARD FEATURES:

- Spindle gear box is equipped with hardened and ground steel gears and shafts lubricated on a continuous oil bath for long term quiet, smooth operation
- Fully enclosed machine tool ground spindle with internal 4 MT mounted in precision bearings for maximum accuracy, minimizing deflection
- Front mounted control panel designed for operator convenience
- Forward & reverse spindle switch
- Mechanical clutch spindle power feed
- Fine feed wheel for small hole and finishing operations
- Rack and pinion head and table raiser system
- T-slotted production table and base
- Front mounted dial adjusted work stop
- 4.5" column provides maximum head, table and base support and stability
- Safety electrical package with emergency push button stop switch, 24 volts at the switch and interlocking chuck guard
- Flood coolant system

Item # 53UH08

Drive Type	Gear Head
Swing	22"
Spindle Taper	MT4
Motor	2HP - 240V - 3PH - 60Hz
Capacity Steel	1-1/4"
Capacity Cast Iron	1 - 9/16"
Power Feed	Yes
Number of Speeds	12
Chuck Size	5/8"
Spindle Speed	115 - 3150 RPM
Spindle Travel	4-3/4"
Base Size	16" x 20"
Table Work Surface	16-3/4" x 17-1/2"
Number of T-Slots	2
Table Slot Size	1/2"
Column Dia.	4-1/2"
Max. Spindle To Base	46-1/4"
Quill Dia.	2 - 61/64"
Spindle to Table	29-3/4"
Dimensions (W x L x H)	23-1/2" x 28" x 80"
Includes	<ul style="list-style-type: none"> • Chuck and Arbor • Safety Drill Guard • Halogen Work Light • Tool Ejector • Coolant System



22" GEAR HEAD DRILL PRESS

Dayton's 53UH05 is made with a heavy, solid cast iron construction. It ensures smooth running and stability due to an enlarged thick-walled column. Its power feed provides high concentricity and precision thanks to its hardened and ground spindle. This drill can drill and tap many sizes due to its variable speed and tapping features; with its depth stop, tapping is simpler and there is no guessing with the depth, making the user more efficient and preserving the life of the taps. Its halogen light allows the user to work even on poor lighting conditions.

OTHER STANDARD FEATURES INCLUDE:

- Depth Stop
- Power feed system
- Forward and Reverse operations
- Cooling system
- Halogen lamp
- Spindle and chuck guard
- Rack and Pinion system raises and lowers the surface ground table
- Table has 2 transversal T-Slots and rotates 360° around the column
- Surface ground and T-Slotted base for holding larger parts

Item # 53UH05 Floor

Electric Supply

Motor	3HP / 230V / 1PH
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Drilling Capacity

Drilling capacity in steel	1.181"
Working range	22"
Quill travel	4.92"
Spindle Taper	
Spindle Taper	MT3

Speeds

Spindle speeds	80-3000 rpm
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Drilling Table

Table size L x W	16" x 20"
T-slot size	.551"
Distance spindle - table (max.)	30.71"
Working surface base L x W	16" x 19.5"
Distance spindle - base (max.)	52.0"

Dimensions

Column diameter	4.528"
Length	36"
Width	23"
Height	75"
Net weight	675 lbs.



22" GEAR HEAD DRILL PRESS WITH ELECTRO-MAGNETIC CLUTCH POWER FEED

This versatile all gear drive drill press is ideal for precision drilling applications and continuous industrial use. Equipped with a state-of-the-art push button electro-mechanical clutch for power feed engagement and overload protection. The all gear drive transmission delivers full power at any speed, driving the cutting tools at nearly 100% of the available motor horsepower. This drill utilizes the combination of steel and reinforced fiber gears to ensure positive, quiet operation. All clutches are made of ground steel for added performance and strength. The wide speed range makes this drill ideal for drilling small to large diameter holes fast and easily.

STANDARD FEATURES:

- Wide speed range with 8 different speeds
- Simple knob selectors for operator ease in changing spindle speeds
- Electro-magnetic clutch power feed – the operator simply dials in the desired feed rate and engages the power feed with the push of a button. The feed disengages automatically when the preset depth is reached
- Fully enclosed machine tool spindle with internal 3 MT mounted in precision bearings for maximum accuracy, minimizing deflection
- Quick release drill ejector
- Front mounted control panel designed for operator convenience
- Forward & reverse spindle switch
- T-slotted production table and base
- Rack and pinion table raiser
- Front mounted dial adjusted work stop
- Interlocking chuck guard
- Work light
- Coolant system

Item # 53UH04

Drive Type	Gear Head
Swing	22"
Spindle Taper	MT4
Motor	2.0/3.0HP - 240V - 3PH - 60Hz
Capacity Steel	1-1/4"
Capacity Cast Iron	1 - 9/16"
Power Feed	Yes
Number of Speeds	8
Chuck Size	5/8"
Spindle Speed	90 - 2480 RPM
Spindle Travel	4-3/4"
Base Size	16" x 20"
Table Work Surface	16-3/4" x 17-1/2"
Number of T-Slots	2
Table Slot Size	1/2"
Column Dia.	4-1/2"
Max. Spindle To Base	46-1/4"
Quill Dia.	2 - 61/64"
Spindle to Table	29-3/4"
Dimensions (W x L x H)	23-1/2" x 28" x 80"
Includes	<ul style="list-style-type: none"> • Coolant System • Chuck Guard • Halogen Work Light



DRILL PRESS GUARD

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 fully comply 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

Item #	Max. Chuck Dia.	Lower Spindle Bearing Collar Dia.	Max. Stroke	Min. Stroke
1FYX3	2-29/64"	1-3/4" to 3-1/2"	10-5/8"	4-7/16"
1FYX4	3"	1-3/4" to 3-1/2"	7"	4-7/16"



1FYX3



1FYX4

