



Dayton[®]



MILLING CATALOG

13" GEAR HEAD MILLING MACHINE

Dayton's 13" variable speed gear head milling machine delivers precision, power and versatility to handle a wide range of small workpiece metalworking applications. The all gear drive transmission delivers full power at any speed driving the cutting tools at nearly 100% of the available horsepower. Equipped with a high performance brushless DC motor permanent current control and infinitely variable speed providing the broadest range of spindle speeds to fit any application.

Equipped with:

- Halogen work light
- Depth stop
- Digital readout depth gauge
- Interlocking spindle safety guard
- Draw bar

STANDARD FEATURES:

- Rigid box column with hardened and ground hand scraped dovetail ways The provide accurate head positioning with minimum deflection and vibration
- All gear drive transmission with 2 step gear box
- The milling head can be tilted right or left up to 90 degrees
- Precision machine tool spindle equipped with taper roller bearings and a spindle concentricity of 0.0005" at the spindle nose
- Cross slide table is precision ground with t-slots, adjustable limit stops, scale and two metal adjusting hand wheels
- Interlocking spindle safety guard
- Draw bar
- Safety electrical system with emergency stop button and 24 volts at all the switches

Item # 53UH19

Swing	13-1/2"
Drilling Capacity Steel	5/8"
End Milling Capacity	13/16"
Face Milling Capacity	2-1/2"
Motor	5/8HP - 240V - 1PH - 10Amp - 60Hz
Table Work Surface	15-3/4" x 4-3/4"
Longitudinal Travel	8-21/32"
Cross Travel	6-3/8"
Speed Range	100 to 3000
Spindle	2MT with 3/8"-16 Draw Bar
Spindle Taper	2MT
Spindle Travel	2"
Spindle to Table	8-1/4"
Head	Gear Driven
T-Slots	3/8"
Operation	Manual
Features:	<ul style="list-style-type: none"> • Two Stage Gearing Motor • Swing Away Safety Shield with Micro Switch
Dimensions (L x W x H)	19" x 18" x 33"



OPTIONAL ACCESSORIES:

- Item # 53UH26** Heavy duty floor stand
- Shelf and chip tray
 - Easy access foot for tool storage
 - Dimensions: 19-3/4" L x 16-1/2" W x 35-1/2" H

14" GEAR HEAD MILLING MACHINE

Dayton's 14" gear head milling machine delivers the precision, power and versatility to handle a wide range of machining operations normally performed in much larger and more expensive milling machines. Ideal for milling, drilling, slotting, engraving, boring, tapping and angle machining operations in tool rooms, pattern shops, mold and die shops, job shops, fabrication shops and maintenance departments.

The all gear drive transmission delivers full power at any speed driving tools at nearly 100% of the available horsepower. These mills are equipped with a high performance brushless DC motor with permanent current control and the latest technology variable speed inverter providing the broadest range of spindle speeds to fit any application. A rigid box column with hardened, ground and hand scraped dovetail ways provide accurate head positioning with minimum deflection and vibration. The milling head can be tilted right or left up to 90 degrees. Precision machine tools spindles equipped with taper roller bearings and a spindle concentricity of .0005" at the spindle nose. The cross slide table is precision ground with t-slots, adjustable limit stops, scale and three metal adjusting hand wheels.

EQUIPPED WITH:

- Halogen work light
- Depth stop
- Digital speed read out
- Digital readout depth gauge
- Interlocking spindle safety guard
- Draw bar

Item # 53UH20

Electrical Connection

Motor	1.20HP / 115V / 1PH
Motor Coolant Pump	40 W / 0.054 HP

Drilling-Milling Capacity

Drilling Capacity	max. Ø 16 mm / 5/8 in
Milling Capacity Cutter Head	max. Ø 63 mm / 2-1/2 in
Milling Capacity End Mill Cuttermax.	Ø 20 mm / 3/4 in
Working Range	185 mm / 7.284 in

Spindle Holding Fixture

Spindle Taper	MT 2/M 10
Quill Travel	50 mm / 1.969 in

Drill-Mill Head

Head Tilts	± 90°
Gear Stages	2 stages, continuously variable
Head Travel*	280 mm / 11.024 in
Maximum Spindle to Table	335 mm / 13.196 in

Speeds

Gear Stage Low	90 - 1480 RPM
Gear Stage Fast	150 - 3000 RPM

Cross Table

Table Length	500 mm / 19.685 in
Table Width	180 mm / 7.087 in
Y-Axis Travel*	175 mm / 6.890 in
X-Axis Travel*	280 mm / 11.023 in
T-Slot Size	12 mm / .472 in
T-Slot Distance	63 mm / 2.480 in
Load of Cross Table (Max.)	55 kg / 121 lbs.

Dimensions

Length	670 mm / 26.378 in
Width	550 mm / 21.654 in
Height	860 mm / 33.858 in
Net weight	103 kg / 227 lbs.



Optional Accessories:

- **Item # 53UH26** Heavy duty floor stand
- Shelf and chip tray
- Easy access foot for tool storage
- Dimensions: 19-3/4" L x 16-1/2" W x 35-1/2" H

17" GEAR HEAD MILLING MACHINE

The all gear drive transmission delivers full power at any speed driving the cutting tools at nearly 100% of the available horsepower and torque. This mill is equipped with a high performance brushless DC motor with permanent current control and the latest technology variable speed inverter providing the broadest range of spindle speeds to fit any application.

A rigid box column with hardened, ground and hand scraped dovetail ways provide accurate head positioning with minimum deflection and vibration. The milling head can be tilted right or left up to 90°.

Precision machine tool spindle equipped with taper roller bearings and a guaranteed spindle concentricity of .0005" at the spindle nose.

The cross slide table is precision ground with T-slots, adjustable limit stops, scale and three satin metal adjusting hand wheels.

For added versatility our gear head mill comes with an automatic tapping mode providing high quality threads and an auto mode which allows the starting and stopping of the spindle through the three spoke hand wheel for greater productivity.

This all-purpose mill is ideal for milling, drilling, slotting, engraving, boring, tapping and angle machining operations in all types and sizes of shops.

- Tapping cycle
- Depth stop
- Digital speed readout
- Digital readout depth gauge
- Interlocking spindle safety guard
- Draw bar
- Way cover

OPTIONAL ACCESSORIES:

- **Item # 53UH27** - Heavy duty steel floor stand made of heavy gauge steel for added stability. Comes with shelf and chip tray, easy access door for tool storage and 4 holes for mounting to the floor.



AUTO ON/OFF MODE

In the automatic mode, the motor will start automatically when the hand lever is pulled down and stops at the initial "up" position. This way, it is not necessary to press the push button Start and Stop for repeated drilling tasks.

TAPPING MODE

The motor is activated by moving the star grip/handle downward. The spindle direction is changed by limit switches on the adjustable depth stop.

Item #53UH21

Motor	3 HP / 230V / 60HZ / 1PH
Drilling Capacity in Casting (max.)	1.1 in
Drilling Capacity in Steel (max.)	.09 in
Milling Capacity Cutter Head (max.)	2.9 in
Milling Capacity End Mill Cutter (max.)	1.2 in
Working Range	42.3 in / 31.3 in / 49.0 in
Spindle Holding Fixture	
Spindle Taper	R8
Draw Bar Thread	7/16 in - 20 drawbar
Quill Travel	3.5 in
Drill - Mill Head	
Swivelling	+ / - 90°
Gear Stages	3
Z-Axis Travel	18.5 in
Speeds	
Low	90 - 900 RPM
Middle	150 - 1500 RPM
High	300 - 3000 RPM
Cross Table	
Cross Table Length x Width	29.5 x 8.3 in
Y-Axis	7.9 in
X-Axis	17.7 in
T-Slot Size / Distance / Quantity	1/2 in / 2.45 in / 3
Dimensions / Weight	
Length	33 in
Width	33 in
Height	52 in
Weight	584 lb



*Shown on optional 53UH27 floor stand

Dayton®

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

20" GEAR HEAD MILLING MACHINE

Dayton's 20" gear head milling machine is the largest in the series and has the precision, power and versatility to handle a wide range of machining operations normally performed in more expensive milling machines.

The all gear drive transmission delivers full power at any speed driving tools at nearly 100% of the available horsepower. These mills are equipped with a high performance brushless DC motor with permanent current control and the latest technology variable speed inverter providing the broadest range of spindle speeds to fit any application. A rigid box column with hardened, ground and hand scraped dovetail ways provide accurate head positioning with minimum deflection and vibration. The milling head can be tilted right or left up to 90 degrees. Precision machine tools spindles equipped with taper roller bearings and a spindle concentricity of .0005" at the spindle nose. The cross slide table is precision ground with t-slots, adjustable limit stops, scale and three metal adjusting hand wheels.

This model also comes with tapping mode and an auto mode which allows the starting of the machine through the three spoke feed handle. This all purpose machine has the power and is ideal for milling, drilling, slotting, engraving, boring, tapping and angle machining operations in tool rooms, pattern shops, mold and die shops, job shops, fabrication shops and maintenance departments.



Item # 53UH22

Electrical Connection

Motor 3HP / 230V / 1PH

Drilling-Milling Capacity

Drilling Capacity In Casting (max.) Ø 30 mm / 1-3/16 in

Drilling Capacity In Steel (max.) Ø 28 mm / 1 in

Milling Capacity Cutter Head Ø 80 mm / 3 in

Milling Capacity End Mill Cutter (max.) Ø 32 mm / 1-1/4 in

Working Range 260 mm / 10.236 in

Spindle Holding Fixture

Spindle Taper R8

Quill Travel 115 mm / 4.528 in

Draw-In Rod M16

Drill-Mill Head

Head Rotation ± 90°

Gear Stages 3 stages, continuously variable

Head Travel* 541 mm / 21-19/64 in

Maximum Spindle to Table 545 mm / 21-7/16 in

Speeds

Gear Stage Low 115 - 600 RPM

Gear Stage Medium 270 - 1400 RPM

Gear Stage Fast 590 - 3100 RPM

Cross Table

Table Length 850 mm / 33.465 in

Table Width 240 mm / 9.448 in

Y-Axis Travel* 250 mm / 9.843 in

X-Axis Travel* 500 mm / 19.685 in

T-Slot Size 18 mm / 3/4 in

T-Slot Distance x and Qty 80 mm / 3.15 in x 3

Dimensions

Length 901 mm / 36 in

Width 948 mm / 37-5/16 in

Height 1519 mm / 60 in

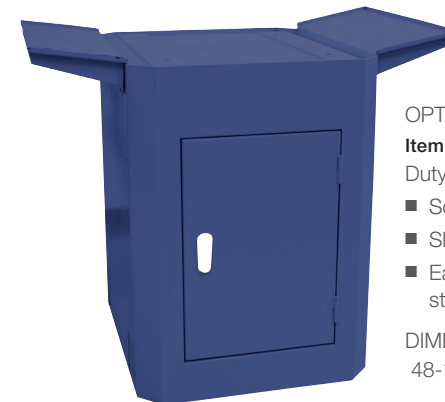
Net weight 480 kg / 1059 lbs.

OPERATING MODE "AUTO"

In the automatic mode, the motor will start automatically when the hand lever is pulled down and stops at the initial "up" position. This way, it is not necessary to press the push button Start and Stop for repeated drilling tasks

OPERATING MODE "THREADING"

The motor is activated by moving the star grip/handle downward. The spindle direction is changed by limit switches on the adjustable depth stop



OPTIONAL ACCESSORIES:
Item # 53UH28 Optional Heavy Duty Floor Stand

- Solid for added stability
- Shelf and chip tray
- Easy access door for tool storage

DIMENSIONS:
48-1/2" L x 30" W x 35" H

VERTICAL TURRET MILLING MACHINE

Quality, durability and value – three key reasons to buy a Dayton vertical turret milling machine. Every mill is manufactured and tested to assure that they meet the highest quality and accuracy standards. The long term reliability and precision are the result of the quality of their components and the craftsmanship that goes into their construction. Extra fine Meehanite castings provide the ultimate in rigidity for a lifetime of vibration free accuracy. Unequalled versatility and ease of operation makes Dayton's vertical turret milling machine the right choice for every shop.

STANDARD FEATURES:

- Variable speed drive makes spindle speed selection easy
- Heavy duty spline motor drive system ensures maximum power transmission in heavy cuts
- Vent air cooling system brings air around, through and over the variable speed drive reducing heat expansion and extending bearing life
- Heavy duty spindle brake for quick manual stops
- Forward / Reverse drum switch
- Fine down feed hand wheel for accurate manual boring operations
- Dual taper roller spindle bearing provides maximum spindle rigidity and accuracy
- Draw bar
- Standard quill power feed and automatic micrometer depth stop
- Heavy duty extended travel ram
- Turret rotates 180 degrees
- The milling head rotates 90 degrees either side of center and can be tilted up to 45 degrees forward and backward from center
- Internally ribbed, box column provides maximum machine stiffness
- Precision ground and t-slotted table for an accurate, square working surface
- Multiple table, knee, saddle and ram locks provide maximum machine stiffness and rigidity
- Flame hardened to RC 50-54, ground and hand scraped ways provide ideal lubrication coverage and retention on all way surfaces
- Way surfaces are hand scraped to ensure full bearing support for maximum machine rigidity and vibration dampening
- One-shot lubrication system delivers metered oil to slideways and leadscrews to provide long life are reduce maintenance requirements

Item # 48WE80

Vertical Turret Mill:	Standard
Spindle Taper:	R8
Diameter of Quill:	3-3/8"
Number of Spindle Speeds:	Variable
Range of Spindle Speeds:	60-4200 RPM
Number of Power Feeds	N/A
Spindle Travel:	5"
Head Movement (L to R)	90°
Head Tilt:	45°
Feed Rate per Power Down Feed:	0.003", 0.006", 0.0015"
Maximum Distance Spindle to Table:	18-3/8"
Maximum Distance Spindle to Column:	19"
Minimum Distance Spindle to Column:	6-3/4"
Collet Capacity:	1/8" - 7/8"
Size of Table:	9" x 49"
Longitudinal Table Travel/X-Axis	26-3/4"
Cross Table Travel/Y-Axis	12"
Number of Table Slots:	3
T-Slot Size:	5/8"
T-Slot Centers:	2-1/2"
Maximum Weight of Workpiece:	500 Lbs
Travel of Knee:	16"
Overarm Travel:	12-1/4"
Slide Ways - Hardened & Ground Cross Table/ Transversely/ Y-Axis Way:	Dove Tail
Table Knee/Z-Axis Way:	Dove Tail
Overall Dimensions (WxDxH):	65-1/2" x 63" x 80"
Motor:	3HP - 230/460V - 3PH
Gross Weight (aprox):	2200 Lbs.



DELUXE VERTICAL TURRET MILLING MACHINE

Dayton offers a deluxe vertical turret milling machine package that delivers quality, durability and value. Combine all the key features of our standard vertical turret milling machine plus the addition of a two axis digital readout, an "X" axis table power feed and a "Y" axis table power feed all under one convenient part number.

Every mill is manufactured and tested to assure that they meet the highest quality and accuracy standards. The long term reliability and precision are the result of the quality of their components and the craftsmanship that goes into their construction. Extra fine Meehanite castings provide the ultimate in rigidity for a lifetime of vibration free accuracy. Unequalled versatility and ease of operation makes Dayton's vertical turret milling machine the right choice for every shop.

STANDARD FEATURES:

- 2 Axis DRO with reference point, calculator, absolute/incremental operation, conversion inch/metric, pitch circle calculator (incremental dimension), full and partial circles and linear patterns (graduated circle), bolt hole pattern function, reversible measured values radius/diameter and glass scales
- Automatic "X" & "Y" axis table power feeds with infinitely variable speed control, fast positioning and both right or left hand rotation
- Variable speed drive makes spindle speed selection easy
- Heavy duty spline motor drive system ensures maximum power transmission in heavy cuts
- Vent air cooling system brings air around, through and over the variable speed drive reducing heat expansion and extending bearing life
- Heavy duty spindle brake for quick manual stops
- Forward / Reverse drum switch
- Fine down feed hand wheel for accurate manual boring operations
- Dual taper roller spindle bearing provides maximum spindle rigidity and accuracy
- Standard quill power feed and automatic micrometer depth stop
- Turret rotates 180 degrees
- The milling head rotates 90 degrees either side of center and can be tilted up to 45 degrees forward and backward from center
- Precision ground and t-slotted table for an accurate, square working surface
- Multiple table, knee, saddle and ram locks provide maximum machine stiffness and rigidity
- Flame hardened to RC 50-54, ground and hand scraped ways provide ideal lubrication coverage and retention on all way surfaces
- Way surfaces are hand scraped to ensure full bearing support for maximum machine rigidity and vibration dampening
- One-shot lubrication system delivers metered oil to slideways and leadscrews to provide long life are reduce maintenance requirements

Item # 48WE81

Vertical Turret Mill:	w/Power Feeds
Spindle Taper:	R8
Diameter of Quill:	3-3/8"
Number of Spindle Speeds:	Variable
Range of Spindle Speeds:	60-4200 RPM
Number of Power Feeds	2
Spindle Travel:	5"
Head Movement (L to R)	90°
Head Tilt:	45°
Feed Rate per Power Down Feed:	0.003", 0.006", 0.0015"
Maximum Distance Spindle to Table:	18-3/8"
Maximum Distance Spindle to Column:	19"
Minimum Distance Spindle to Column:	6-3/4"
Collet Capacity:	1/8" - 7/8"
Size of Table:	9" x 49"
Longitudinal Table Travel/X-Axis	26-3/4"
Cross Table Travel/Y-Axis	12"
Number of Table Slots:	3
T-Slot Size:	5/8"
T-Slot Centers:	2-1/2"
Maximum Weight of Workpiece:	500 Lbs
Travel of Knee:	16"
Overarm Travel:	12-1/4"
Slide Ways - Hardened & Ground Cross Table/ Transversely/ Y-Axis Way:	Dove Tail
Table Knee/Z-Axis Way:	Dove Tail
Overall Dimensions (WxDxH):	65-1/2" x 63" x 80"
Motor:	3HP - 230/460V - 3PH
Gross Weight (aprox):	2230 lbs.



Dayton®

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

UNIVERSAL HORIZONTAL MILLING MACHINE

Dayton's universal horizontal milling machine features a rigid knee and column construction and has the ability to do either horizontal or vertical milling making it an ideal solution for just about every milling application. Equipped with a power table feed, vertical spindle attachment and a wide range of spindle speeds this well thought out mill delivers a wide range of versatility and features making it one of the most functional manual machining centers that can operate in all types and sizes of shops.

STANDARD FEATURES:

- Internally ribbed, box column provides maximum machine stiffness and vibration dampening
- Precision ground and t-slotted table for an accurate, square working surface
- Flame hardened to RC 50-54, precision ground and hand scraped ways ensure full bearing support and provide ideal lubrication coverage and retention on all way surfaces
- One-shot lubrication system delivers metered oil to slideways and leadscrews to provide long life and reduce maintenance requirements
- Heavy duty 3 v-belt drive system delivers full power to the drive gear box and spindle
- The speed gear box is made up of hardened and ground gears running in an oil bath
- The table can be positioned by means of manual hand wheels or it is equipped with a gear driven power feed on the "X" axis / longitudinal travel. Three speed settings plus rapid advance movement provides for increased productivity and improved surface finishes on all your workpieces
- "Z" axis has motorized rapid elevating assist
- A vertical spindle head attachment can transform the horizontal machine to a vertical machine quickly. The head can be disassembled and mounted in position easily via the machine mounted vertical head bracket.
- The vertical spindle head can be angled 90 degrees to right or left of center
- Flood coolant system and chip tray

Item # 48WE82

Motor 3HP - 230V w/Power Feeds

Horizontal Spindle	3HP
Table Feed (Long)	3/4HP
Table Rapid (Vertical)	1/2HP
Coolant Pump	1/8HP

Horizontal Spindle

Spindle Nose	CAT 40
Spindle Speed RPM	6 - 1100 (6 Steps)
Center to Bottom of Ram	115
Spindle Center to Table	0 - 6.5"

Spindle

Swiveling Angle	45°
Spindle Nose to Table	0 - 3.465"
Cross Travel of Ram	11.811"

Table

Size (L x W)	43.307" x 9.843"
T-Slot (W x Qty)	5/8" x 3

Travel

X • Y • Z	27.5" x 9.84" x 17.32"
-----------	------------------------

Feed

Long Feed Rate/Min	0.71" - 12.6"
Long Rapid Traverse/Min	41"
Vertical Rapid Traverse/Min	11.41"

Size

Machine (L x W x H)	62" x 48" x 65"
Net Weight (Lbs)	2200



A vertical spindle head attachment can transform the horizontal machine to a vertical machine quickly. The head can be disassembled and mounted in position easily via the machine mounted vertical head bracket. The vertical spindle head can be angled 90 degrees to right or left of center

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

Dayton®

MILLING STARTER KIT

Item # 4LEX9 -

- 10 Pc 4-Flute HSS End Mill Kit with case 3/16" – 3/4"
- 11 Pc R8 Collet Set with Rack 1/8" – 3/4"
- 2" Boring head with R8 Arbor for 7/8" – 20 Threaded back, Accepts 1/2" boring bars
- 5/8" Drill Chuck with R8 Arbor
- 2" Face Mill with R8 Arbor
- 5-Axis Milling Stop



MILLING STARTER KIT W/CLAMPING

Item # 4LEY1

- 10 Pc 4-Flute HSS End Mill Kit with case 3/16" – 3/4"
- 11 Pc R8 Collet Set with Rack 1/8" – 3/4"
- 2" Boring head with R8 arbor for 7/8"-20 threaded back, accepts 1/2" boring bars
- 5/8" Drill Chuck with R8 Arbor
- 2" Face Mill with R8 Arbor
- 5-Axis Milling Stop
- 4" Standard milling vise with swivel base
- 69 Pc Clamping Kit



MT2 3/8-16 2" FACE CUTTER HD

Item # 5TXF9

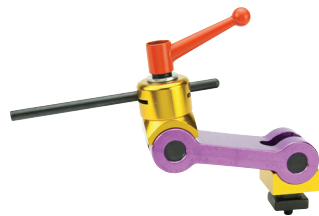
- 2MT, 3/8"-16 threaded hole



5 AXIS MILLING STOP

Item # 4LEX8

- 5-Axis adjustment
- 1/4" Diameter stop rod
- Locking lever can be positioned at 360°
- 5/8" T-nut
- Aluminum and steel construction



END MILL SET 20 PIECES

Item # 16N204

- From 3/16" to 3/4"
- Suitable for Machining a wide range of ferrous and non-ferrous materials
- Center-cutting, HSS end mills
- Tin coating extends tools life and allows machining at higher speeds
- Ideal for machining operations, cutting, slotting, keyways & pockets
- 4-Flute, single end
- Includes storage case



END MILL SET 10 PIECES

Item # 16N203



MT2 3/8-16 ARBOR JT33

Item # 5TXF7

- 3/8-16, 2MT, JT33 Arbor



MT2 CHUCK WITH 10 ER COLLET

Item # 5TXF8

- 10 Collets from 3/32" to 5/8"
- MT2 Collet holder
- Spanner wrench
- Storage Box



COLLET CHUCK SET ER32-R8 12 PIECES

Item # 11A471

- 12 Collets from 3/32" to 3/4"
- R8, 7/16"-20 Collet holder
- Spanner wrench
- Storage Box



COLLET CHUCK SET ER16-R8 8 PIECES

Item # 11A472

- 8 Collets from 3/32" to 3/8"
- 8, 7/16"-20 Collet Holder
- Spanner wrench
- Storage Box



NO. 2 MT ROUND COLLET CHUCK SET 5 COLLETS

Item # 5TXG0

- 1/8" to 7/16" with wooden storage box



MT2 3/8-16 ARBOR JT33

Item # 5TXF7

- 3/8-16, 2MT, JT33 Arbor



Dayton®

16" BELT DRIVE MILLING MACHINE, 3/4HP

Dayton 12-Speed Mill Drill Model 2LKP8 is a ruggedly constructed machine providing accurate milling, drilling and boring capabilities. The fully enclosed R-8 spindle has heavy-duty tapered thrust bearings at top and bottom of quill, adjustable depth stop with scale, fine feed adjustment handwheel with .001" graduations and quill lock down handle for securely clamping spindle at desired depth. One-piece cast iron head rotates 360° and travels vertically by rack and pinion. Hinged pulley cover allows fast and easy speed changes. Large 23 x 7-3/8" table has dovetail ways with adjustable gibs and bronze lead screw nuts for accurate and rigid table positioning. Table has four 1/2" T-slots, zero-setting handwheel dials with .001" graduations, adjustable stops for longitudinal feed and cross feed way cover. A 3/4 HP, 1725 RPM, 115/230 volt, 60 Hz single-phase motor and 115v work lamp are included. Prewired for 115v.

Item # 2LKP8

Swing	16"
Drilling Capacity in Steels	1"
End Milling Capacity	1/2"
Face Milling Capacity	2 1/2"
Motor HP	3/4
Voltage	115/230
Table Work Surface	7-3/8 x 23"
Longitudinal Travel	14 1/2"
Cross Travels	5 1/2"
Amps	12.0/6.0
Phase	1
Hz	60
PRM	1725
Spindle Taper	R8
Spindle Speed	115 - 2580 Rpm
Spindle Travel	3 3/4"
Spindle to Table	14"
Column Dia.	3-5/8"
Quill Dia	2 1/2"
T-Slots	1/2"
Operation	Manual
Slide Ways - Hardened & Ground Cross Table/ Transversely/ Y-Axis Way:	Dove Tail
Table Knee/Z-Axis Way:	Dove Tail
Overall Dimensions (WxDxH):	33" x 27" x 40"
Gross Weight (aprox):	436 Lbs.



OPTIONAL
ACCESSORIES:
Item # 2LKR3 Optional
Heavy Duty Floor Stand

16" BELT DRIVE MILLING MACHINE, 1/2HP

Dayton 12-Speed Mill Drill Model 2LKP9 is a ruggedly constructed machine providing accurate milling, drilling and boring capabilities. The fully enclosed R-8 spindle has heavy-duty tapered thrust bearings at top and bottom of quill, adjustable depth stop with scale, fine feed adjustment handwheel with .001" graduations and quill lock down handle for securely clamping spindle at desired depth. One-piece cast iron head rotates 360° and travels vertically by rack and pinion. Hinged pulley cover allows fast and easy speed changes. Large 32-3/8 x 91/2" table has dovetail ways with adjustable gibs and bronze lead screw nuts for accurate and rigid table positioning. Table has four 5/8" T-slots, zero-setting handwheel dials with .001" graduations, adjustable stops for longitudinal feed and cross feed way cover. A 1-1/2 HP, 1725 RPM, 115/230-volt, 60 Hz single-phase motor and 115v work lamp are included. Prewired for 230v.

Item # 2LKP9

Swing	16"
Drilling Capacity in Steels	1 1/2"
End Milling Capacity	3/4"
Face Milling Capacity	3"
Motor HP	1 1/2
Voltage	115/230
Table Work Surface	9 1/2" x 32"
Longitudinal Travel	23"
Cross Travels	7"
Amps	23.0/11.5
Phase	1
Hz	60
PRM	1725
Spindle Taper	R8
Spindle Speed	150 - 3000 Rpm
Spindle Travel	5"
Spindle to Table	17"
Column Dia.	4 1/2"
Quill Dia	3"
T-Slots	5/8"
Operation	Manual
Slide Ways - Hardened & Ground Cross Table/ Transversely/ Y-Axis Way:	Dove Tail
Table Knee/Z-Axis Way:	Dove Tail
Overall Dimensions (WxDxH):	32" x 29" x 45"
Gross Weight (aprox):	667 Lbs.



OPTIONAL
ACCESSORIES:

Item # 2LKR3

Optional Heavy Duty Floor
Stand

Item # 2LKR4 Optional
Table Power Feed

16" BELT DRIVE MILLING MACHINE, 1-1/2HP DELUXE PACKAGE

Dayton 12-Speed Mill Drill Model 2LKP9 is a ruggedly constructed machine providing accurate milling, drilling and boring capabilities. The fully enclosed R-8 spindle has heavy-duty tapered thrust bearings at top and bottom of quill, adjustable depth stop with scale, fine feed adjustment handwheel with .001" graduations and quill lock down handle for securely clamping spindle at desired depth. One-piece cast iron head rotates 360° and travels vertically by rack and pinion. Hinged pulley cover allows fast and easy speed changes. Large 32-3/8 x 9-1/2" table has dovetail ways with adjustable gibs and bronze lead screw nuts for accurate and rigid table positioning. Table has four 5/8" T-slots, zero-setting handwheel dials with .001" graduations, adjustable stops for longitudinal feed and cross feed way cover. A 1-1/2 HP, 1725 RPM, 115/230-volt, 60 Hz single-phase motor and 115v work lamp are included. Prewired for 230v.

INCLUDES:

- Digital Readout
- Table Power Feed
- Heavy Duty Stand

Item # 2LKR1	
Swing	16"
Drilling Capacity in Steels	1-1/2"
End Milling Capacity	3/4"
Face Milling Capacity	3"
Motor HP	1-1/2
Voltage	115/230
Table Work Surface	9-1/2 x 32"
Longitudinal Travel	23"
Cross Travels	7"
Amps	23.0/11.5
Phase	1
Hz	60
PRM	1725
Spindle Taper	R8
Spindle Speed	150 - 3000 Rpm
Spindle Travel	5"
Spindle to Table	17"
Column Dia.	4½"
Quill Dia	3"
T-Slots	5/8"
Operation	Manual
Slide Ways - Hardened & Ground Cross Table/ Transversely/ Y-Axis Way:	Dove Tail
Table Knee/Z-Axis Way:	Dove Tail
Overall Dimensions (WxDxH):	32" x 32" x 84"
Gross Weight (aprox):	770 Lbs.



THE DAYTON DIGITAL READOUT IS A SIMPLE, COST EFFECTIVE POSITIONING DISPLAY SOLUTION FOR MANUAL MACHINE TOOL APPLICATIONS.

The unit features a LED display screen and versatile software to accommodate milling and turning applications. The housing is die cast aluminum and the unit is capable of reading 1, 2, or 3 axis movements reading from mounted precision glass scales. Helping the operator to work smarter and faster the DRO functions include instant inch/mm conversion, bolt hole pattern calculations (full & partial circles, liner patterns), linear error compensation, tool position memory, 4 function calculator/trig calculator, absolute/incremental display, zero reset capability, feed rate display, reference point, speed display, and self-diagnostics. Our digital readout allows the operator to work faster with greater accuracy.

FUNCTIONS:

- Reference point
- Calculator
- Absolute/Incremental operation
- Coupling of axis (sum Z)
- Sub D connector bushing
- Conversion inch/metric thread
- Pitch circle calculator (incremental dimension)
- Full and partial circles and linear patterns (graduated circle)
- Bolt hole pattern function
- Permanent memory also in case of power failure
- Reversible measured values radius/diameter

TECHNICAL DATA

- Three evaluable measuring inputs with seven correction memories each for tools
- Electrical connection 115V ~60 Hz
- Dimensions L x W x H: 11" x 2-3/4" x 7-1/4"
- Weight: 6 lbs.



DRO

GLASS SCALES

Dayton's precision glass scales withstand the elements of contamination found in even the harshest machine shop environments while maintaining very high accuracy measurements.

Our precision glass scales resist changes in size, shape and density due to temperature and humidity variations and are enclosed in a protective aluminum enclosure. This stability provides exceptional accuracy down to +/- 1.5 um (.00006") resulting in tighter work piece tolerances.

FEATURES:

- Totally enclosed odometry system with high-precision glass scale
- Accuracy +/-1.5 mm
- Scanning carriage guided by miniature ball bearings and connected to the mounting base via coupling
- Rubber sealing lips protect against dust, chips and splash water
- Mounting brackets



Glass Scale

Dayton[®]