



## JET JWL-1642EVS & JWL-1642EVS-2 Wood Lathes

The JET JWL-1642EVS & JWL-1642EVS-2 Wood Lathes have been designed and built to bring the accuracy, capability, durability and value you want in woodworking machinery. They strike a perfect balance of versatility, cutting edge technology and performance. That means the JET JWL-1642EVS & JWL-1642EVS-2 Wood Lathes, with their 16" swing over the bed and 42" capacity between centers will perform perfectly to let you focus on creativity. And, that attention to materials, design and workmanship allows us to provide an industry-leading 5-year warranty



The JET JWL-1642EVS & JWL-1642EVS-2 bring the accuracy, capability, durability and value you demand in your machines.

Both the JET JWL-1642EVS & JWL-1642EVS-2 Wood Lathes are based on heavy-duty iron castings. Precision machining prepares the high-quality raw castings to insure long-term accuracy and smooth operation. The generous ways on the bed are precisely ground to be certain they are flat and smooth and remain that way.



Even the legs are made from an iron casting and include these cast-in supports that make adding a shelf to storage area simple.

Even the leg sets with their widely spaced feet are one piece iron castings. Making the leg sets from cast iron contributes to the vibration absorbing 440-lb weight of the JET JWL-1642EVS & JWL-1642EVS-2 Wood Lathes. Adjustable heavy-duty pads at each foot insure a solid stance on uneven surfaces. With these legs, the spindle (center) height is a comfortable 44 1/2 inches above the floor.

Each leg set has cast-in supports that accept common 2 x 4 to 2 x 12 lumber for making storage shelving or a platform for sandbags to add additional dampening for those who frequently turn exceptionally large, out-of-balance blanks.

We also include a handy swing-out basket, mounted below the bed. This basket is perfect for storing often used tools and supplies.



A handy swing out basket below the bed provides always needed storage for often used tools and supplies.

### Headstock

The JET JWL-1642EVS & JWL-1642EVS-2 headstock is also made from a massive iron casting that insures rigid support for the motor and the high-strength spindle. After machining, the headstock is fitted with large diameter, high-quality ball bearings that support the precision machined spindle.



The headstock is extremely rigid and is fitted with large-diameter ball bearings to support the high-strength spindle. (left)



The stepped drive pulleys (right) are accessible through a front-mounted door for fast, easy speed range changes.

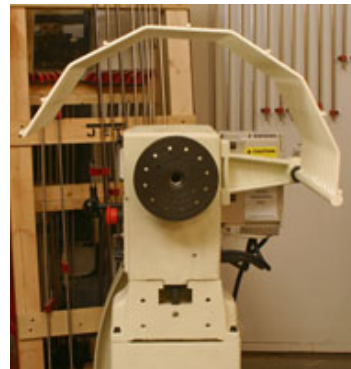
operations. The spindle is indexed with a screw in pin that is provided with the lathe. A pushbutton spindle lock on the front of the headstock provides a simple, tool-free way to temporarily lock the spindle for installing/removing the faceplate, chuck or other screw-on accessories.

The large diameter spindle has a 1 1/4" by 8 threads per inch nose that supports the large chucks typically used with a lathe of this size. The outboard end of the spindle is fitted with a barrel-type grip for turning the spindle by hand.

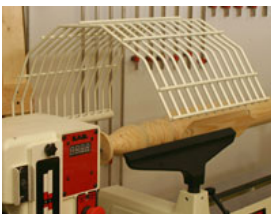
The spindle also has internal indexing built in that allows locking it in 36 positions which translates to 10-degree increments for drilling, fluting, grooving and other

A 3/8"-diameter through hole provides access for removing the drive spur from the spindle with the included knock out rod.

To maximize the versatility of the JET JWL-1642EVS & JWL-1642EVS-2 Wood Lathes, the headstock can be moved to any position along the bed by simply releasing the headstock lock with an easy to use handle. The headstock does not pivot but can be repositioned across the length of the ways. This is particularly useful when moved to the end of the bed for turning oversized bowl and platter blanks "off the end"! When turning at the end of the bed we offer a free standing tool rest (#708349) as an accessory to accommodate large blanks that can't be handled when using the standard banjo and tool rest.



The headstock can be positioned anywhere along the bed, including at the very end for turning large diameter blanks "off the bed", providing even more versatility.



We include a heavy wire guard that helps protect the operator from large chips and chunks that can come free while rounding blanks.

A special mount on the rear of the headstock accepts a heavy gauge wire guard (provided with the lathe). A spring-loaded pin indexes the guard up or down to make mounting and removing turned objects easy. This guard acts as great shield between the work and the operator when turning blanks where large chips and chunks can be considered dangerous projectiles to the operator otherwise.

We also include a 6"-diameter faceplate that has been pre-drilled with an array of hole patterns that makes mounting virtually any blank fast, easy and very secure. A special handle for installing and removing the faceplate is included. A four wing drive spur that fits in the #2 Morse taper is also standard equipment as is the knockout rod for removing it.

## Power & Variable Speed

The JET JWL-1642EVS-2 model is equipped with a 2HP, 3 phase, 230V motor. The JWL-1642EVS version comes with a 1 1/2HP, 3 phase, 115V motor for shops that do not have 220V power available. Electronic inverter does all the work to convert from the 1 phase to 3 phase. The inverter also provides the ability to vary the frequency of the motor which in turn allows for variable speed.



Our strong, 3 phase motors (left) insure plenty of power for all of your turning needs. The speed control knob (right) provides extensive control over rpm and keeps you precisely informed with its large LED display.



The inverter does the work of converting the electrical power from 1 phase to 3 phase. By varying the frequency the speed of the motor changes, which allows for high torque at low RPMs.

Inverters not only convert the phase from 1 to the highly efficient 3 phase, but also enable the infinite speed control. The real benefit to electronically controlled variable speed is that the motor retains a large amount of torque at low RPMs, thus turning large, heavy, out of round blanks at slower speeds is most effective.

Due to the dedicated inverter on the lathe the incoming voltage is fixed for a single voltage machine and cannot be converted as is possible with many other JET machines. Both motors are TEFC (totally enclosed fan cooled) models to resist dust contamination.

The JET JWL-1642EVS & JWL-1642EVS-2 Wood Lathes feature dial-operated, infinite speed controls located on the front of the headstock. A large digital LED readout makes monitoring the spindle speed easy and very accurate. A toggle switch on the front panel allows selecting forward and reverse spindle directions. A large diameter pull on, push off button also on the front panel is easily accessible from virtually any operator stance.



Both the JET JWL-1642EVS and JWL-1642EVS-2 lathes use a precision-made stepped pulley system that creates distinct low and high rpm ranges. The low range allows for high torque and low speeds. The high range allows for higher speeds up to 3200 RPM for turning small pieces and spindles. The pulleys are driven by a serpentine-style belt that is known for smooth power transmission, low slippage and dramatically reduced heat generation as compared to the more common V-belts. The result is a much longer life of the serpentine belt itself and surrounding bearings within the headstock.

Changing between the 0-1200 and 0-3200 rpm speed ranges is fast, easy and done from in front of the machine. Even the belt tensioning handles are mounted up front within easy reach. A large door on the front of the headstock provides access to the belt and pulleys. Relax the belt tension, move the belt to the new position and re-tension the belt. Fast, easy and all done from in front of the lathe!

### Tool Rest

The cast iron tool rest base is designed to be very rigid, easy to position and with its comfortably long handle, very easy to lock in position. The 1"-diameter bore accepts the included 14"-long tool rest as well as many commonly used accessories without modification. The locking handle for the tool rest post can be repositioned as needed to keep it out of your way.



The 14"-long tool rest and its base are rigid and easy to reposition on the bed. The locking handle and mechanism make it easy to secure the tool rest assembly.

### Tailstock

The large tailstock has the mass and wide base to generate the stability you need. The large ram has a full 4" travel, operated by an easy to turn 5" diameter handwheel fitted with a spinner handle. The ram has the popular #2 Morse taper and a 3/8"-diameter through hole, which is convenient for drilling lamp bases. Like the tool rest base, a large handle makes locking the tailstock securely in place easy.



The tailstock is fitted with a heavy-duty ram, driven by a 5"-diameter handwheel. We include the multi ball bearing live center with its screw on cone attachment (left) that make turning projects with a center hole easier and safer.

The ram has a full 4" travel (right) and has graduations that make drilling precise depth holes simple.



center. Along with a normal sized, removable point, it features a screw on, large diameter cone that makes turning popular projects like peppermills and boxes very easy and safe.

The JET JWL-1642EVS & JWL-1642EVS-2 comes with a high-end multi row ball bearing live





With the versatility of the sliding headstock, electronic variable speed and capacity for large projects either spindle or bowl the JET JWL-1642EVS & JWL-1642EVS-2 is a great lathe for the most serious of woodturners all the way down to new turners. JET believes in the superior fit and finish, outstanding quality and enhanced design so much that we can easily offer the customer a 5-year warranty, proving we stand behind the product and the name of JET.

## **Accessories**

### **Outboard Turning Stand**

When turning large diameter bowls, platters or other projects off the end of the JET JWL-1642EVS or JWL-1642EVS-2, our Outboard Turning Stand (#708349) is available as an accessory. Its fully adjustable height and wide-stance tripod legs make the Outboard Turning Stand comfortable to use and very stable.

### **Bed Extensions**

When the 42" between centers capacity is not enough, we offer two bed extensions. The #708346 Bed Extension adds 20" of spindle capacity while the #708347 kit adds a whopping 57" to the between centers capacity! Both extension kits come with the necessary fasteners for mounting the extension to existing holes in the standard JET JWL-1642EVS & JWL-1642EVS-2 beds.



The Outboard Turning Stand is height adjustable and very stable.