

nova

BRANDED PRODUCTS

ENHANCES SALES & PROFILE

NOVA GALAXI DVR 1644 LATHE



Smart Tools, Powerful Solutions



NOVA – GALAXI DVR 1644 NEW PRODUCT!

- **Powerful:** The DVR motor is small and compact but delivers a whopping 1.75HP (2HP 220V) of direct drive turning power.
- **Incredibly Smooth Turning:** The spindle rotation is closely controlled and monitored by computer and direct DVR drive motor setup eliminates pulleys, belts and the vibration they cause.
- **High Torque:** Delivers high torque from its start speed making it well suited for low speed turning. There is no belt drive - full power output is available at the spindle.
- **Intelligent Drive:** The computer analyzes (100s of time per second) both the spindle position and the power required to maintain a given speed. As cutting tool pressure is increased the drive adds more power. Unlike a 'dumb' AC or DC where there is no connection between the power supplied and the actual spindle requirements.
- **Up to 50% Energy Efficiency:** The DVR only draws as much power as necessary - this means it is very efficient in its power use and runs very cool by adding years to your motor
- **Low Maintenance:** The DVR is a simple motor - the complexity is in the electronics. It has few mechanical parts with no belts, pulleys - the motor and lathe headstock are a fully integrated whole. There are no brushes or magnets and only one set of very robust stator windings.



This lathe combines the best features of larger lathes – power, capacity and capability with state of the art technology to make your turning more efficient, fun and safer. The DVR Galaxi is the most versatile lathe on the market.

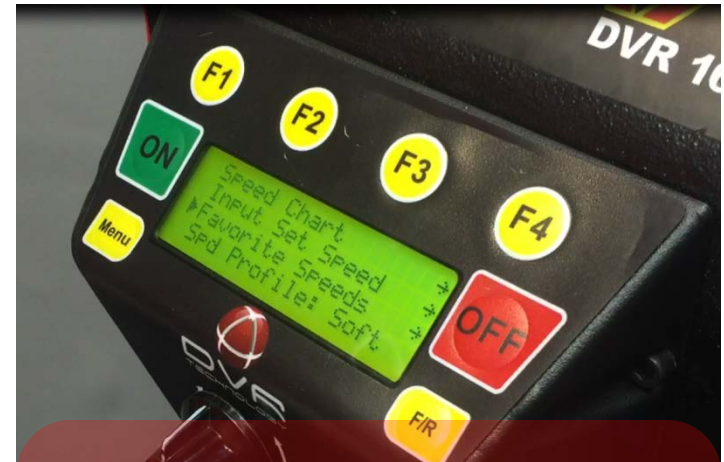
Smart Tools, Powerful Solutions



NOVA – GALAXI DVR 1644 NEW PRODUCT!

Menu Tips and Tricks

- **Adjust speed through an easy-touch dial** – turn for fine adjustments and press and turn for coarse adjustments. It's easy to get to the perfect speed very quickly.
- Select **Lathe Settings** to change display size, turn off and on the assisted brake and Idle Off settings.
- Select **Speed Chart** to choose rough or finish cut, set the diameter of the piece and the machine will offer a recommendation on the set speed, which you can adjust.



Under the Main Menu, you can choose your 8 most-used speeds. Put them to work by clicking the corresponding F buttons once for 1-4 and twice for 5-8.

Smart Tools, Powerful Solutions



NOVA – GALAXI DVR 1644 NEW PRODUCT!



Idle Motor Detection automatically turns off the lathe after five minutes of idling. You can find this menu under Lathe Settings.



Input information about your project, such as rough or finish cut, diameter, your set speed in the main menu.

Smart Tools, Powerful Solutions



NOVA – GALAXI DVR 1644 NEW PRODUCT!



Modify display size under the Lathe Settings, an option in the main menu



Opt for password protection on your lathe to prevent misuse.

Smart Tools, Powerful Solutions



NOVA – GALAXI DVR 1644 NEW PRODUCT!

- **Wireless Remote enabled:** Available as an optional accessory. Allows for the end user to be able to control speed settings and stop/start. Very handy and convenient when turning a large bowl or vase and not working close to the headstock.

Tip: Sync your wireless remote to your lathe by selecting "Wireless Remote" in the main menu.

- **Electronic Auto Braking:** When engaged, the spindle stops very quickly. This feature can be manually set on auto braking or off auto braking. Auto braking stops the free wheeling time to slow the workpiece down when you want to inspect or change it.

This is very handy when you are working on a range of pieces where you want the convenience of a quick stop.

- **Electronic Speed Chart:** You can select for a finish, shape, or a roughing out cut. Then, input the workpiece diameter and the controller gives you the recommended speed which you can confirm or alter if you wish.



Smart Tools, Powerful Solutions



NOVA – GALAXI DVR 1644 NEW PRODUCT!

- **Speed Knob:** You can wind the knob to quickly alter the speed up and down from our recommended range of 100rpm right up to 5,000rpm.

Tip: Make fine adjustments by spinning and coarse adjustments by pressing the button down and spinning.

- **Favorite Speed Setting:** This setting allows the end user to be able to input 8 pre-set speeds so with a touch on a button you can set your project up to go from roughing speed, to shaping cut, to a finish cut – very convenient and fast for setting up projects.

Tip: Touch buttons F1-F4 once for your first set of favorites, and twice for your second set.

- **Speed Ramp Profiles:** You can set a hard or soft speed ramp up.
 - *Soft – for light work at speeds lower than 500 rpm*
 - *Normal (default) – Suitable for most work*
 - *Hard – For heavy and/or “out-of-balance” work at speeds lower than 500 rpm*



Smart Tools, Powerful Solutions



NOVA – GALAXI DVR 1644 NEW PRODUCT!

- **Idle Motor Detection:** Like a computer, your machine will turn off after five minutes of idle with no load.

Tip: You can choose to turn this feature off in the Lathe Settings menu for non-weighted projects like sanding.

- **Upgradeable Firmware:** As more features are released for the DVR Controller you will be able to download a firmware update from the internet via your computer – then input the updated program into your DVR Controller.

Tip: Firmware is easy to update with a DVR USB. Plus, all updates are included on Teknatool.com.

- **Emergency Stop:** For added safety, the lathe is equipped with a easy-off emergency stop button.



Smart Tools, Powerful Solutions



NOVA – GALAXI DVR 1644 NEW PRODUCT!

- **Improved Servicing Feature:** The DVR Controlled and electronics are mounted in a detachable pack on the back of the headstock. Customer will only need to remove a few plugs and unscrew the pack if it needs to be sent back for servicing.
- **Smooth Turning Experience:** Direct Drive (no belts) – the spindle is the rotor of the lathe. The DVR Controlled keeps the speed within 1-2% of the set speed, even if your cuts go from light to heavy. This is not the case with normal belt-driven machines.
- **Weight:** The NOVA Galaxi DVR 1644 weighs 526 pounds.



Smart Tools, Powerful Solutions



NOVA – GALAXI DVR 1644 NEW PRODUCT!

- **DVR Motor and Controller:** 2HP of direct drive power give maximum torque at lower rpms – just where you need it for larger, heavier work.
- **Swivel Head:** You can go from 16” diameter swing inboard, swivel it to 45 degrees and instantly have a usable turning diameter of up to 18”, just using the standard toolrest and toolrest slide. Swivel to 90 degrees, and you’ll have a turning diameter of 29” using the accessory outrigger system (SKU: OR3000). This allows for the ability to turn chair legs, large hollow form vases, and bowls. The turner does not need to lean awkwardly over the bed to run – they can stand in a very comfortable position either to the side or right in front of the turning.
- **Capacity:** With a long bed length of 44” capacity, there would be little need for any add on beds. This capacity well exceeds most of the competitor lathes. The swing diameter capacity with the swivel head, and the huge amount of power means it can tackle just about any project.



Smart Tools, Powerful Solutions



MOTOR SPECIFICATIONS

- ▶ DVR High Torque Motor, Electronic Variable Speed
- ▶ 1.75HP Direct Drive
- ▶ Single Phase Input Supply
- ▶ 110-120V, 15A, 1.75HP
- ▶ 220-240V, 10-15A, 2HP (requires optional plug change)

NO Belts or Pulleys mean Direct Power when turning

Easy control Speed Dial makes it much faster and easier to fine tune the exact speed needed for your project turning.



Emergency Stop is easily accessible for when you need the spindle to come to a complete stop.

Smoothest lathe with highest RPM means vibration free turning

SPECIFICATIONS:

- ▶ **Capacity:** 16" (400mm) swing over bed
- ▶ **Between Centers:** 44" (1120mm)
- ▶ **Swivel Headstock:** 360° with present pin lock -90°, -60°, -30°, 0°, 30°, 60°, & 90°
- ▶ **Spindle Thread:** 1 1/4" 8TPI
- ▶ **Spindle Taper:** 2MT
- ▶ **Tailstock Quill Travel:** 3" (80mm)
- ▶ **Quill Type:** Self Ejecting
- ▶ **Speed Range:** 100-5000rpm

The headstock not only rotates a full 360° but can also slide down the full length of the bed allowing for more flexibility in how you turn and maximizing the capacity of what you can turn.

Smoothest turning experience of any lathe!

With 44" between centers, there is no bed extension needed. You'll always have a lathe with the capacity that you need – no matter the project!



This **360° Swivel Headstock** allows for pieces to be turned that are significantly larger than the swing, making this lathe ideal for any size project. The swivel headstock also means a **more comfortable standing position**. Turn for longer periods of time!

- **Powerful:** The DVR motor is small and compact but delivers a whopping 1.75HP (2HP 220V) of direct drive turning power.
- **Incredibly Smooth Turning:** The spindle rotation is so closely controlled and monitored by computer and direct DVR drive motor setup eliminates pulleys, belts, and the vibration they cause.
- **High Torque:** Delivers high torque from its start speed making it well suited for low speed turning. There is no belt drive - full power output is available at the spindle.
- **Intelligent Drive:** The computer analysis (100s of time per second) both the spindle position and the power required to maintain a given speed. As cutting tool pressure is increased the drive adds more power. Unlike a 'dumb' AC or DC where there is no connection between the power supplied and the actual spindle requirements.
- **Up to 50% Energy Efficiency:** The DVR only draws as much power as necessary - this means it is very efficient in its power use and runs very cool.
- **Low Maintenance:** The DVR is a simple motor - the complexity is in the electronics. It has few mechanical parts with no belts, pulleys - the motor and lathe headstock are a fully integrated whole. There are no brushes or magnets and only one set of very robust stator windings.



360° swivel headstock for larger projects. **Not limited by the swing!** With optional Outrigger turn up to 29"

Smart Tools, Powerful Solutions