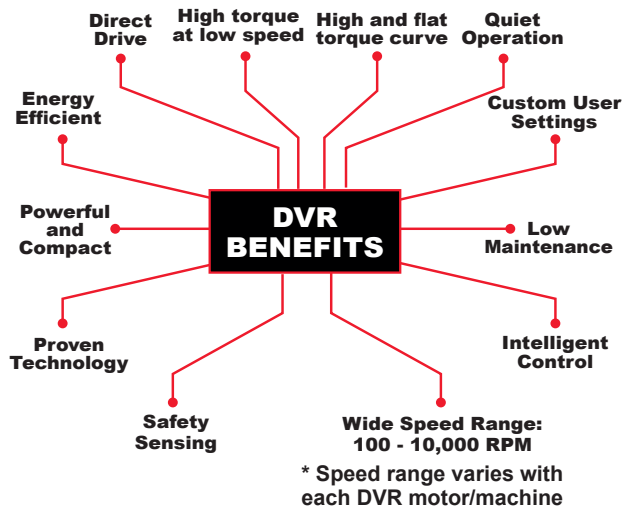


## DVR BENEFITS



### SAFETY SENSING:

The DVR motor is an intelligent, computer controlled motor. It's constantly sensing the load on the machine and adjusting its performance accordingly. It can sense when there is an unusual load applied or unsafe conditions and will instantly shut off power.

### EXTENSIVE SPEED RANGE:

A key advantage of this motor is its wide speed range. DVR® Motor Technology has the capability to deliver speeds from 100 RPM - 10,000 RPM. All this versatility in a compact package. A typical AC motor with inverter is only optimized at 1,500 RPM).

### CUSTOMIZABLE:

Our standard DVR® motor can be used, unmodified, for many different applications. However, our DVR® Motor Technology can also be customized to suit your individual requirements. Adjustments such as Power Rating, Human Machine Interface (HMI), Speed Range and Safety Features are easily made.

## MOTOR COMPARISON

LATHE AND DRILL PRESS MOTOR COMPARISON	DVR® MOTOR	AC MOTOR	DC MOTOR
No belts and pulleys to cause friction, vibration or wear	✓	×	×
No need to use belts and pulleys to achieve desired speeds required	✓	×	×
Efficient power performance reducing stress and wear on components	✓	×	×
No rotor windings to overheat and fail	✓	✓	×
No brushes to wear out and fail	✓	✓	×
Smart motor that can sense safety issues	✓	×	×
Energy Efficient Green Technology	✓	×	×
VFD is not required for speed change (VFD is unreliable)	✓	×	×

Want to learn more about why the DVR® motor is so advantageous over traditional motor designs? Visit our website: [teknatool.com/why-dvr-technology/](http://teknatool.com/why-dvr-technology/)



Phone: (727) 954-3433  
Email: [service@teknatool.com](mailto:service@teknatool.com)  
Find your nearest dealer: [teknatool.com/where-to-buy](http://teknatool.com/where-to-buy)

## DVR® MOTORS

**The NOVA line of DVR® lathes and drill presses are the only machines to feature a Smart Motor**

Equipped with NOVA's unique Adaptive Control Software™. This powerful technology includes: Speed Control, Stop, Start, Reverse, Safety Sensing and Fault Sensing.



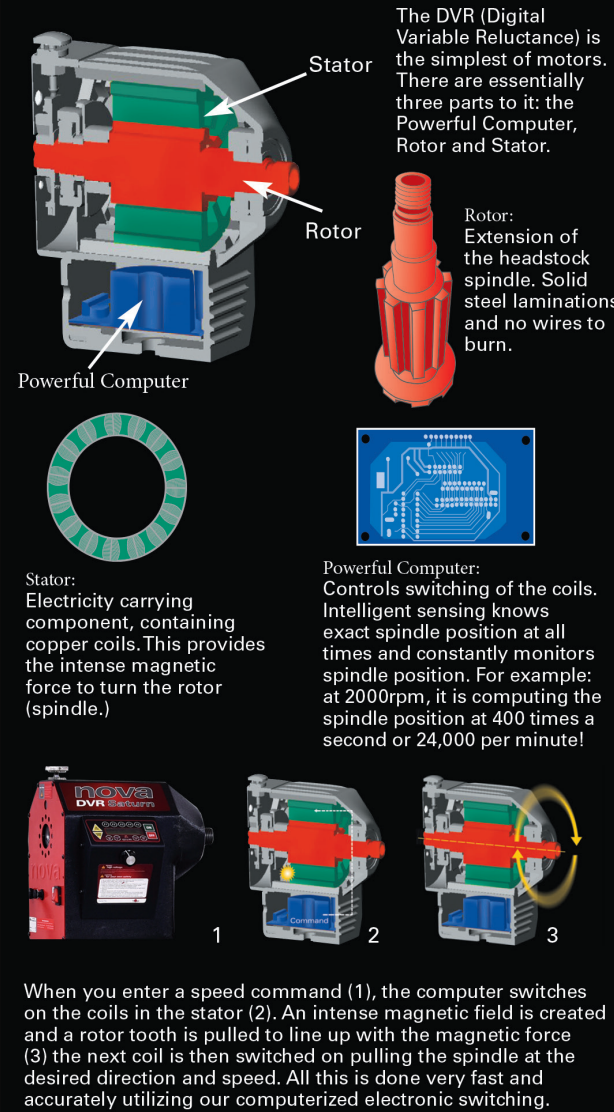
## WHAT IS DVR® MOTOR TECHNOLOGY?

DVR® (Digital Variable Reluctance), is a Switch Reluctant Motor with unique technology. Through Intelligent Control, this variable speed motor 'talks' to the internal computer constantly monitoring conditions, giving it the edge on a conventional motor.

DVR® Motor Technology features Direct to Spindle Power, Intelligent Control, Energy Efficiency, High Torque and Power at Low RPM, and a Wide Speed Range all packaged in a compact unit.



## How does the DVR® Motor work?



## SMART OPERATION:

Easy to operate, the NOVA DVR range of machines are the only SMART machines on the market to automatically adjust the speed for the application.

It can save and store speed information on different pre-set settings and switch from one to another immediately, with just the single press of a button.

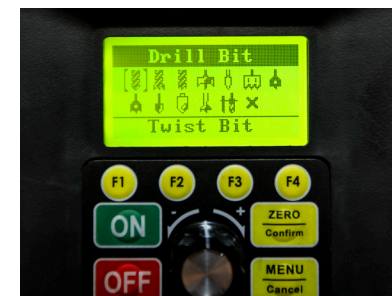
This Smart Technology can detect the input power source, giving the DVR® motor the ability to operate at a variety of different voltages (100V to 240V) and without further modifications being required.

## POWERFUL TORQUE:

The DVR's computer automatically detects the load on the output shaft, and adjusts power extraction according to the load. As a result, the DVR® motor has its highest torque at lowest speed and has a flatter torque curve over a wide range of speeds.

This unique characteristic means the DVR® motor can be mounted directly to the output shaft, which allows it to achieve better output by eliminating the power lost in a traditional gears/belts and pulley drive system (On average, a belt driven machine has about 20% power loss just in the belt system alone).

Smart computer controlled motor only draws as much power as it needs for the project being worked on. The Striatech DVR motor can save up to 50% energy and emissions over conventional motors.



Available in English, French and German language options.