

# Infinitely Variable Speed Lathe Model: TW6291 EVS



## **Futures**

- The surface of the lathe bed ways is supersonic frequency hardened and precision ground.
- The lathe spindle system is high in rigidity and accuracy.
- Electronically infinitely variable drive.
- Rapid feed structure is available on lathe Apron.
- Clutch in headstock makes the lathe more attractive.

**Machine Specifications**

Items	TW6291 EVS			
<b>Capacity</b>				
Max. swing over bed	Φ910mm			
Max. swing over slide	Φ580mm			
Max. swing in gap	Φ1100mm			
Effective length in gap	400mm			
Max. length of workpiece	1500mm	2000mm	3000mm	4000mm
Bed width	600mm			
<b>Spindle</b>				
Spindle bore	Φ105mm			
Spindle nose	D11			
Spindle Taper	Metric Ø 120 1:20			
Spindle speed	10-90rpm, 20-180rpm, 40-320rpm, 80-630rpm			
Steps of spindle speed	4 steps ( electrically adjustable speed)			
<b>Thread and Feed</b>				
Metric thread	1~120mm /43kinds			
Inch thread	14~1TPI / 26kinds			
Module Range	0.5~60M.P / 45kinds			
D.P. Range	28~1DP / 24kinds			
Longitudinal feed range	0.1-1.52mm/rev, 0.8-12.16mm/rev			
Cross feed range	0.05-0.76mm/rev, 0.4-6.08mm/rev			
Rapid traverse	Longitudinal:4. m/min; Cross: 2m/min			
<b>Tool post</b>				
Number of tool station	4			
Tool cross section	32x32mm			
Compound slide travel	200mm			
Max Cross Slide Travel	550mm			
<b>Tailstock</b>				
Tailstock sleeve diameter	Φ100mm			
Tailstock sleeve travel	250 mm			
Tailstock sleeve taper	MT5			
<b>Motor</b>				
Main motor power	11kW			
<b>Others</b>				
Net weight	5850 kg	6450kg	7050 kg	7650kg
Overall dimension	3650x1450x1630mm	4150x1450x1630mm	5150x1450x1630mm	6150x1450x1630mm



**Equipments**

Item 01	Descriptions	
01.01	3-Jaw chuck Ø320mm	
01.02	4-Jaw chuck Ø500mm	
01.03	Steady rest	
01.04	Follow rest	
01.05	Face plate	
01.06	4-way tool post	
01.07	Work lamp	
01.08	Coolant system	
01.09	Tailstock	
01.10	Reduction sleeve	
01.11	Dead center	
01.12	Tool box and tools	

**Optionals**

Item 02	Descriptions	
02.01	Chuck guard	
02.02	Tool post cover	
02.03	Lead screw cover	
04.04	Taper attachment	
04.05	2-axis /3-axis Digital Read Out	
04.06	Living center	

## Descriptions

### Headstock

Headstock gears are made of high quality steel, ground and hardened, all gears head stock with oil immersed lubrication design.

Electronical infinitely variable drive.



### Feeding system

Sealed and easy operating feed box has various feeds and imperial, diametric and module thread cutting functions;



The lathe are easy and reliable to operate, convenient to repair.



### Tool post



**Other details**

2 or 3-axis DRO



Steady rest



Tool guard



Chuck guard

