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## Spindle Shapers

### A dependable Source for All Your Needs in High Quality Spindle Shapers

With over 30 years of experience in designing and manufacturing high quality woodworking machines, Chen Sheng offers the widest range of spindle shapers for its customers all around the globe. Our engineers strive for excellence and innovation in machine structure, cutting accuracy and production efficiency. With their expertise and R&D capabilities, we constantly develop new models to meet the specific requirements from each customer. At Chen Sheng, everything we make relies on providing the highest possible level of spindle shaper quality in order to satisfy and even exceed your expectations.



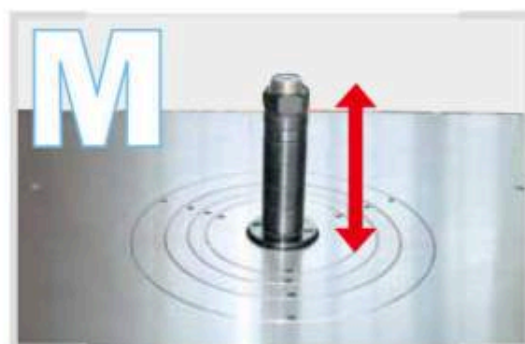
TILTING SPINDLE



SLIDING TABLE



DIGITAL CONTROL



LIFTING SPINDLE



LONG TABLE



**YL - 525TSM**

Series  
Tilting spindle  
Sliding table  
Lifting spindle



**YL - 625TSM**

Series  
Tilting spindle  
Sliding table  
Lifting spindle



**YL - 635TS**

Series  
Tilting spindle  
Sliding table



**YL - 735TSM**

Series  
Tilting spindle  
Sliding table  
Lifting spindle  
Long table



**YL - 800TSM**

Series  
Tilting spindle  
Sliding table  
Lifting spindle  
Digital control



**YL - 2070S**

Series  
Sliding table

# 525 series

## Outstanding Features

### INTERCHANGEABLE SPINDLES:

Choice of 4 spindle diameters (3/4", 1", 1-1/4", 1-3/8" or in metric sizes 19mm, 25.4mm, 30mm, 35mm). Spindle has MK5 taper to ensure precision and allow quick changeover.

### QUICK SPINDLE SPEED CHANGE :

The spindle is driven by a four-speed dynamically balanced pulley for spindle speeds of 3000, 4500, 7500 and 10000 RPM. Change of speed is quick and easily accomplished by simply loosening a lock lever, and shifting the belt to the required speed.

### REVERSIBLE SPINDLE ROTATION:

The spindle is reversible to ensure safe rotation in clockwise or counter-clockwise direction as well as providing the ability to climb cut glued panels.

### LIFTING SPINDLE:

The lifting spindle is moving up & down thanks to a lifting handwheel located on the side or on the front of the machine within easy reach. The travel distance is 5" (130mm).

### TILTING SPINDLE:

The tilting spindle provides angle cutting from -5° ~ 0° ~ +45°. Spindle tilting handwheel is located at front within easy reach. A tilt scale is attached for accurate angle setting.

### SPINDLE RAISING:

The spindle is raised or lowered by a graduated precision handwheel, providing 1mm elevation per full revolution. Quick clamp lever positively holds spindle at a set height.

### TABLE INSERTS:

The spindle is fitted with 2 insert rings (6-3/8" & 8-5/8") permitting use of a wide variety of shaper cutters.

### FENCE:

The fence assembly is attached with a 4" diameter outlet dust hood. The fence halves can be precision adjusted by micrometric adjustment knob.

### TABLE:

The massive table is made from high quality, rib reinforced and temper heat treated cast iron for maximum strength and wear resistance. Table surface is precision ground and polished.

### SLIDING TABLE:

The sliding table is an integrated system providing maximum accuracy and effortless cutting effect. Tenoning attachment is included as a standard feature.



**YL-525M**

- Fixed table model
- Table area 27-1/2"x35-1/2" (700x900mm)
- 5HP / 3PH standard



**YL-525MS**

- Sliding table model
- Table area 27-1/2"x35-1/2" (700x900mm)
- 5HP / 3PH standard



**YL-525T**

- Tilting spindle model
- Table area 27-1/2"x35-1/2" (700x900mm)
- 5HP / 3PH standard



**YL-525TS**

- Tilting spindle with sliding table model
- Table area 27-1/2"x35-1/2" (700x900mm)
- 5HP / 3PH standard

## Specifications:

| MODEL                      | YL-525M, MS                                       | YL-525T, TS              |
|----------------------------|---------------------------------------------------|--------------------------|
| Spindle dia.               | 3/4", 1", 1-1/4", 1-3/8" (19, 25.4, 30, 35mm)     |                          |
| Spindle speed              | 3000 / 4500 / 7500 / 10000 rpm                    |                          |
| Taper of spindle           | MK5                                               |                          |
| Spindle motor              | 5HP / 3PH                                         |                          |
| Spindle travel             | 5" (130mm)                                        |                          |
| Spindle capacity under nut | 3-1/4", 3-3/4", 4-1/2" (3/4", 1", 1-1/4" spindle) |                          |
| Tilting angle              | —                                                 | -5° ~ 0° ~ +45°          |
| Max. table insert diameter | 8-5/8" (220mm)                                    |                          |
| Table size                 | 27-1/2" x 35-1/2" (700 x 900mm)                   |                          |
| Table height               | 35-1/2" (900mm)                                   |                          |
| Sliding table size         | 35-1/2" x 9" (900 x 230mm)                        |                          |
| Sliding table travel       | 32-1/2" (830mm)                                   |                          |
| Fence size                 | 127 x 425mm x 2pcs                                |                          |
| N.W.                       | 345kgs                                            | 360kgs 370kgs 400kgs     |
| G.W.                       | 390kgs                                            | 405kgs 420kgs 450kgs     |
| Packing dimensions         | 42"(L) x 38"(W) x 50"(H)                          | 42"(L) x 42"(W) x 50"(H) |

\* Specifications and design characteristics are subject to change without prior notice.

## Standard Equipment:

- Magnetic switch with overload protection
- Reversing switch
- Choice of spindle size: Specify spindle diameter when ordering.
- Hold down springs: Vertical set of two pieces. Horizontal set of two pieces.
- 2 Table inserts (6-3/8" & 8-5/8")
- Precision fence with 4" dust outlet
- Parts & Operations Books
- Service tool kit

## Optional Equipment:

- Digital display
- Routing operation
- Spindle front guard
- Optional spindle size available

## 625series

### Outstanding Features

#### INTERCHANGEABLE SPINDLES:

Choice of 4 spindle diameters (3/4", 1", 1-1/4", 1-3/8" or in metric sizes 19mm, 25.4mm, 30mm, 35mm). Spindle has MK5 taper to ensure precision and allow quick changeover.

#### QUICK SPINDLE SPEED CHANGE :

The spindle is driven by a four-speed dynamically balanced pulley for spindle speeds of 3000, 4500, 7500 and 10000 RPM. Change of speed is quick and easily accomplished by simply loosening a lock lever, and shifting the belt to the required speed.

#### REVERSIBLE SPINDLE ROTATION:

The spindle is reversible to ensure safe rotation in clockwise or counter-clockwise direction as well as providing the ability to climb cut glued panels.

#### LIFTING SPINDLE:

The lifting spindle is moving up & down thanks to a lifting handwheel located on the side or on the front of the machine within easy reach. The travel distance is 5" (130mm).

#### TILTING SPINDLE:

The tilting spindle provides angle cutting from -5° ~ 0° ~ +45°. Spindle tilting handwheel is located at front within easy reach. A tilt scale is attached for accurate angle setting.

#### SPINDLE RAISING:

The spindle is raised or lowered by a graduated precision handwheel, providing 1mm elevation per full revolution. Quick clamp lever positively holds spindle at a set height.

#### TABLE INSERTS:

The spindle is fitted with 2 insert rings (6-3/8" & 8-5/8") permitting use of a wide variety of shaper cutters.

#### FENCE:

The fence assembly is attached with a 4" diameter outlet dust hood. The fence halves can be precision adjusted by micrometric adjustment knob.

#### TABLE:

The massive table is made from high quality, rib reinforced and temper heat treated cast iron for maximum strength and wear resistance. Table surface is precision ground and polished.

#### SLIDING TABLE:

The sliding table is an integrated system providing maximum accuracy and effortless cutting effect. Tenoning attachment is included as a standard feature.

#### FOOT SPINDLE BRAKE:

Treadle plate provides instant stop of the running spindle after shutting off the power.

### Specifications:

| Model                      | YL-625M, MS                                       | YL-625T, TS              |
|----------------------------|---------------------------------------------------|--------------------------|
| Spindle diameter           | 3/4", 1", 1-1/4", 1-3/8" (19, 25.4, 30, 35mm)     |                          |
| Spindle speed              | 3,000, 4,500, 7,500, 10,000 rpm                   |                          |
| Taper of spindle           | MK5                                               |                          |
| Spindle motor              | 7.5HP / 3PH                                       |                          |
| Spindle travel             | 5" (130mm)                                        |                          |
| Spindle capacity under nut | 3-1/4", 3-3/4", 4-1/2" (3/4", 1", 1-1/4" spindle) |                          |
| Tilting angle              | —                                                 | -5° ~ 0° ~ +45°          |
| Max. table insert diameter | 8-5/8" (220mm)                                    |                          |
| Table size                 | 41-3/8" x 31-1/8" (1050 x 800mm)                  |                          |
| Table height               | 35-1/2" (900mm)                                   |                          |
| Sliding table size         | 1050 x 250mm                                      |                          |
| Sliding table travel       | 38" (970mm)                                       |                          |
| Fence size                 | 127 x 425mm x 2pcs                                |                          |
| N.W.                       | 400kgs                                            | 430kgs                   |
| G.W.                       | 460kgs                                            | 490kgs                   |
| Packing dimensions         | 48"(L) x 37"(W) x 50"(H)                          | 48"(L) x 46"(W) x 50"(H) |

\* Specifications and design characteristics are subject to change without prior notice.

### Standard Equipment:

- Magnetic switch with overload protection
- Reversing switch
- Choice of spindle size: Specify spindle diameter when ordering.
- Hold down springs: Vertical set of two pieces. Horizontal set of two pieces.
- 2 Table inserts (6-3/8" & 8-5/8")
- Precision fence with 4" dust outlet
- Parts & Operations Books
- Service tool kit

### Optional Equipment:

- Digital display
- Routing operation
- Spindle front guard
- Optional spindle size available



**YL-625M**

- Fixed table model
- Table area: 41-3/8" x 31-1/2" (1050 x 800mm)
- 7.5HP / 3PH
- Spindle foot brake



**YL-625MS**

- Sliding table model
- Table area: 41-3/8" x 31-1/2" (1050 x 800mm)
- 7.5HP / 3PH
- Spindle foot brake



**YL-625T**

- Tilting spindle model
- Table area: 41-3/8" x 31-1/2" (1050 x 800mm)
- 7.5HP / 3PH
- Spindle foot brake



**YL-625TS**

- Tilting spindle with sliding table model
- Table area: 41-3/8" x 31-1/2" (1050 x 800mm)
- 7.5HP / 3PH
- Spindle foot brake

# 635series

## Outstanding Features

### INTERCHANGEABLE SPINDLES:

Choice of 4 spindle diameters (3/4", 1", 1-1/4", 1-3/8" or in metric sizes 19mm, 25.4mm, 30mm, 35mm). Spindle has MK5 taper to ensure precision and allow quick changeover.

### QUICK SPINDLE SPEED CHANGE :

The spindle is driven by a four-speed dynamically balanced pulley for spindle speeds of 3000, 4500, 7500 and 10000 RPM. Change of speed is quick and easily accomplished by simply loosening a lock lever, and shifting the belt to the required speed.

### REVERSIBLE SPINDLE ROTATION:

The spindle is reversible to ensure safe rotation in clockwise or counter-clockwise direction as well as providing the ability to climb cut glued panels.

### LIFTING SPINDLE:

The lifting spindle is moving up & down thanks to a lifting handwheel located on the side or on the front of the machine within easy reach. The travel distance is 5" (130mm).

### TILTING SPINDLE:

The spindle can be tilted 45° backward and 5° frontward.

### SPINDLE RAISING:

The spindle is raised or lowered by a graduated precision handwheel, providing 1mm elevation per full revolution. Quick clamp lever positively holds spindle at a set height.

### TABLE INSERTS:

The spindle is fitted with 2 insert rings (6-3/8" & 8-5/8") permitting use of a wide variety of shaper cutters.

### FENCE:

The fence assembly is attached with a 4" diameter outlet dust hood. The fence halves can be precision adjusted by micrometric adjustment knob.

### TABLE:

The massive table is made from high quality, rib reinforced and temper heat treated cast iron for maximum strength and wear resistance. Table surface is precision ground and polished.

### SLIDING TABLE:

The sliding table is an integrated system providing maximum accuracy and effortless cutting effect. Tenoning attachment is included as a standard feature.

### ELECTRONIC MOTOR BRAKE:

The electronic motor brake provides instant stop of the running motor.



### YL-635T

- Tilting spindle model
- Table area: 41-3/8" x 31-1/2" (1050 x 800mm)
- 7.5HP / 3PH
- Electronic motor brake

### YL-635TS

- Tilting spindle with sliding table model
- Table area: 41-3/8" x 31-1/2" (1050 x 800mm)
- 7.5HP / 3PH
- Electronic motor brake

### Specifications:

| Model                      | YL-635T                                           | YL-635TS                 |
|----------------------------|---------------------------------------------------|--------------------------|
| Spindle diameter           | 3/4", 1", 1-1/4", 1-3/8" (19, 25.4, 30, 35mm)     |                          |
| Spindle speed              | 3,000, 4,500, 7,500, 10,000 rpm                   |                          |
| Taper of spindle           | MK5                                               |                          |
| Spindle motor              | 7.5HP / 3PH                                       |                          |
| Spindle travel             | 5" (130mm)                                        |                          |
| Spindle capacity under nut | 3-1/4", 3-3/4", 4-1/2" (3/4", 1", 1-1/4" spindle) |                          |
| Tilting angle              | -5° ~ 0° ~ +45°                                   |                          |
| Max. table insert diameter | 8-5/8" (220mm)                                    |                          |
| Table size                 | 41-3/8" x 31-1/8" (1050 x 800mm)                  |                          |
| Table height               | 35-1/2" (900mm)                                   |                          |
| Sliding table size         | -                                                 | 1050 x 250mm             |
| Sliding table travel       | -                                                 | 38" (970mm)              |
| Fence size                 | 127 x 425mm x 2pcs                                |                          |
| N.W.                       | 500kgs                                            | 545kgs                   |
| G.W.                       | 576kgs                                            | 621kgs                   |
| Packing dimensions         | 48"(L) x 37"(W) x 50"(H)                          | 48"(L) x 46"(W) x 50"(H) |

\* Specifications and design characteristics are subject to change without prior notice.

### Standard Equipment:

- Magnetic switch with overload protection
- Reversing switch
- Choice of spindle size: Specify spindle diameter when ordering.
- Hold down springs: Vertical set of two pieces. Horizontal set of two pieces.
- 2 Table inserts (6-3/8" & 8-5/8")
- Precision fence with 4" dust outlet
- Parts & Operations Books
- Service tool kit

### Optional Equipment:

- Digital display
- Routing operation
- Spindle front guard
- Optional spindle size available



### SPECIAL BACKWARD TILTING SPINDLE

- The spindle can be tilted 45° backward and 5° frontward.
- The spindle is specially designed with backward tilting, allowing cutter to be mounted at a lower position for increased stability and safety.

# 735series

## Outstanding Features

**INTERCHANGEABLE SPINDLES:**

Choice of 4 spindle diameters (1", 1-1/4", 1-3/8", 1-1/2" or in metric sizes 25.4mm, 30mm, 35mm, 40mm). Spindle has MK5 taper to ensure precision and allow quick changeover.

**QUICK SPINDLE SPEED CHANGE:**

The spindle is driven by a four-speed dynamically balanced pulley for spindle speeds of 3000, 4500, 7500 and 10000 RPM. Change of speed is quick and easily accomplished by simply loosening a lock lever, and shifting the belt to the required speed.

**REVERSIBLE SPINDLE ROTATION:**

The spindle is reversible to ensure safe rotation in clockwise or counter-clockwise direction as well as providing the ability to climb cut glued panels.

**LIFTING SPINDLE:**

The lifting spindle is moving up & down thanks to a lifting handwheel located on the side or on the front of the machine within easy reach. The travel distance is 7" (180mm).

**TILTING SPINDLE:**

The tilting spindle provides angle cutting from -5° ~ 0° ~ +45°. Spindle tilting handwheel is located at front within easy reach. A tilt scale is attached for accurate angle setting.

**SPINDLE RAISING:**

The spindle is raised or lowered by a graduated precision handwheel, providing 1mm elevation per full revolution. Quick clamp lever positively holds spindle at a set height.

**YL-735M**

- Fixed table model
- Table area 36-1/2" x 48" (930 x 1220mm)
- 7.5HP / 3PH motor (10HP / 3PH opt.)

**TABLE INSERTS:**

The spindle is fitted with 3 or 5 insert rings permitting use of a wide variety of shaper cutters. Maximum insert opening diameter is 13-1/4", allowing use of insert cutterheads.

**FENCE:**

Precision machined fence provides the accuracy demanded in complex shaping applications. The fences are supported by a massive cast iron body and integrated with a 5" dust outlet.

**TABLE:**

The massive table is made from high quality, rib reinforced and temper heat treated cast iron for maximum strength and wear resistance. Table surface is precision ground and polished.

**SLIDING TABLE:**

The sliding table is an integrated system providing maximum accuracy and effortless cutting effect. Tenoning attachment is included as a standard feature.

**FOOT SPINDLE BRAKE:**

Treadle plate provides instant stop of the running spindle after shutting off the power.

**FOOT SPINDLE LOCK:**

The spindle is foot treadle locked for convenient cutter and spindle change.

**YL-735MS**

- Sliding table model
- Table area 36-1/2" x 48" (930 x 1220mm)
- 7.5HP / 3PH motor (10HP / 3PH opt.)

**Specifications:**

| Model                                    | YL-735M                                                                 | YL-735T                  | YL-735MS                 | YL-735TS                 |
|------------------------------------------|-------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|
| Spindle diameter                         | 1", 1-1/4", 1-3/8", 1-1/2" (25.4, 30, 35, 40mm)                         |                          |                          |                          |
| Spindle travel                           | 7" (180mm)                                                              |                          |                          |                          |
| Tilting angle                            | —                                                                       | -5°~0°~+45°              | —                        | -5°~0°~+45°              |
| Spindle speeds                           | 3000 / 4500 / 7500 / 10000 rpm (4 Speeds)                               |                          |                          |                          |
| Spindle taper                            | MK5                                                                     |                          |                          |                          |
| Table size                               | 36-1/2" x 48" (930 x 1220mm)                                            |                          |                          |                          |
| Sliding table size                       | —                                                                       |                          | 13" x 48" (330 x 1220mm) |                          |
| Sliding table stroke                     | —                                                                       |                          | 46" (1170mm)             |                          |
| Table insert opening diameters (735M/MS) | Ø3-15/16", 6-3/4", 8-1/4", 10-1/4", 13-1/4" (100, 170, 210, 260, 336mm) |                          |                          |                          |
| Table insert opening diameters (735T/TS) | Ø8-1/4", 10-1/4", 13-1/4" (210, 260, 336mm)                             |                          |                          |                          |
| Spindle capacity under nut               | 4", 5-1/2", 5-1/2", 5-1/2" (1", 1-1/4", 1-1/2", 1-3/8" spindle)         |                          |                          |                          |
| Table height                             | 35-1/2" (900mm)                                                         |                          |                          |                          |
| Fence size                               | 146 x 600mm x 2pcs                                                      |                          |                          |                          |
| Motor horsepower                         | 7.5 HP / 3PH (10HP / 3PH optional)                                      |                          |                          |                          |
| N.W.                                     | 610kgs                                                                  | 680kgs                   | 680kgs                   | 720kgs                   |
| G.W.                                     | 680kgs                                                                  | 760kgs                   | 750kgs                   | 800kgs                   |
| Packing dimensions                       | 53"(L) x 42"(W) x 51"(H)                                                | 53"(L) x 52"(W) x 51"(H) | 53"(L) x 42"(W) x 51"(H) | 53"(L) x 52"(W) x 51"(H) |

\* Specifications and design characteristics are subject to change without prior notice.

**YL-735T**

- Tilting spindle model
- Table area 36-1/2" x 48" (930 x 1220mm)
- 7.5HP / 3PH motor (10HP / 3PH opt.)

**YL-735TS**

- Tilting spindle with sliding table model
- Table area 36-1/2" x 48" (930 x 1220mm)
- 7.5HP / 3PH motor (10HP / 3PH opt.)

**Standard Equipment:**

- Magnetic switch with overload protection
- Reversing switch
- Choice of one spindle size: Specify spindle diameter when ordering.
- Hold down springs:
  - Vertical set of two pieces.
  - Horizontal set of two pieces.
- 5 Table inserts (M/MS), 3 Table inserts (T/TS)
- Precision fence with 5" dust outlet
- Parts & Operations Books
- Service tool kit

**Optional Equipment:**

- Digital display
- Routing operation
- Spindle front guard
- Optional spindle size available

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**INDUSTRIAL SPINDLE SHAPER**

# 735series

## Specifications:

|                                |                                                                         |
|--------------------------------|-------------------------------------------------------------------------|
| Model                          | YL-735L                                                                 |
| Spindle diameter               | 1", 1-1/4", 1-3/8", 1-1/2" (25.4, 30, 35, 40mm)                         |
| Spindle travel                 | 7" (180mm)                                                              |
| Spindle speeds                 | 3000 / 4500 / 7500 / 10000 rpm (4 Speeds)                               |
| Spindle taper                  | MK5                                                                     |
| Table size                     | 39" x 88" (980 x 2235mm) (with extension wings)                         |
| Table insert opening diameters | Ø3-15/16", 6-3/4", 8-1/4", 10-1/4", 13-1/4" (100, 170, 210, 260, 335mm) |
| Table height                   | 35-1/2" (900mm)                                                         |
| Fence size                     | 146 x 600mm x 2pcs                                                      |
| Motor horsepower               | 7.5HP / 3PH (10HP / 3PH optional)                                       |
| N.W.                           | 725kgs                                                                  |
| G.W.                           | 810kgs                                                                  |
| Packing dimensions             | 91"(L) x 44"(W) x 51"(H)                                                |

\* Specifications and design characteristics are subject to change without prior notice.

## Standard Equipment:

- Magnetic switch with overload protection
- Reversing switch
- Choice of spindle size: Specify spindle diameter when ordering.
- Hold down springs: Vertical set of two pieces. Horizontal set of two pieces.
- 5 Table inserts
- Precision fence with 5" dust outlet
- Parts & Operations Books
- Service tool kit

## Optional Equipment:

- Digital display
- Routing operation
- Spindle front guard
- Optional spindle size available



### YL-735L

#### BASIC SPINDLE SHAPER WITH TENONER TABLE

- The unit is identical to the LS-735M but is equipped with a 88" long tenoning table for maximum support of large parts and doors.
- Telescopic front table extension wing facilitates maximum support of large doors, panels and timbers. (Extends to 28" from the main shaper table)

# 800series

## Outstanding Features

### USER-FRIENDLY DIGITAL CONTROL

#### DIGITAL POSITION CONTROL

The digital position control is used together with powered spindle elevation, providing fast, convenient and accurate spindle positioning.



#### CENTRALIZED CONTROL PANEL

All of the machine controls are centralized on the control panel for added operational convenience. Major control functions on the control panel include: spindle rev./forw. switch, amp. meter, volt meter and the optional digital position control.



#### POWERED SPINDLE ELEVATION

The spindle elevation is driven by a 1 HP motor, providing fast and convenient spindle positioning adjustment. A handwheel equipped on the front of the machine cabinet provides manual micrometric adjustment for spindle positioning. The spindle elevation distance is 170 mm.

#### ELEVATION LIMIT SWITCH

The spindle elevation stroke is equipped with two limit switches providing over-stroke protection.

## Standard Equipment:

- Magnetic switch with overload protection
- Reversing switch
- Choice of spindle size: Specify spindle diameter when ordering.
- Hold down springs: Vertical set of two pieces. Horizontal set of two pieces.
- 5 Table inserts (M/MS/MD/MSD), 3 Table inserts (T/TS)
- Precision fence with 5" dust outlet
- Parts & Operations Books
- Service tool kit

## Optional Equipment:

- Digital display
- Routing operation
- Spindle front guard
- Optional spindle size available



### YL-800MD

- Fixed table model
- With digital position control
- Table area 36-1/2" x 61" (920 mm x 1,550 mm)
- 10 HP / 3PH motor (15 HP / 3PH optional)
- Foot spindle brake
- Foot spindle lock



### YL-800MSD

- Sliding table model
- With digital position control
- Table area 36-1/2" x 61" (920 mm x 1,550 mm)
- 10 HP / 3PH motor (15 HP / 3PH optional)
- Foot spindle brake
- Foot spindle lock

# 800series

## Outstanding Features

### INTERCHANGEABLE SPINDLES:

Choice of 4 spindle diameters (1", 1-1/4", 1-3/8", 1-1/2" or in metric sizes 25.4mm, 30mm, 35mm, 40mm). Spindle has MK5 taper to ensure precision and allow quick changeover.

### QUICK SPINDLE SPEED CHANGE:

The spindle is driven by a four-speed dynamically balanced pulley for spindle speeds of 3000, 4500, 7500 and 10000 RPM. Change of speed is quick and easily accomplished by simply loosening a lock lever, and shifting the belt to the required speed.

### REVERSIBLE SPINDLE ROTATION:

The spindle is reversible to ensure safe rotation in clockwise or counter-clockwise direction as well as providing the ability to climb cut glued panels.

### LIFTING SPINDLE:

The lifting spindle is moving up & down thanks to a lifting handwheel located on the side or on the front of the machine within easy reach. The travel distance is 6-5/8" (170mm).

### TILTING SPINDLE:

The tilting spindle provides angle cutting from -5° ~ 0° ~ +45°. Spindle tilting handwheel is located at front within easy reach. A tilt scale is attached for accurate angle setting.

### SPINDLE RAISING:

The spindle is raised or lowered by a graduated precision handwheel, providing 1mm elevation per full revolution. Quick clamp lever positively holds spindle at a set height.

### TABLE INSERTS:

The spindle is fitted with 3 or 5 insert rings permitting use of a wide variety of shaper cutters. Maximum insert opening diameter is 13-1/4", allowing use of insert cutterheads.

### FENCE:

Precision machined fence provides the accuracy demanded in complex shaping applications. The fences are supported by a massive cast iron body and integrated with a 5" dust outlet.

### EXTRA LARGE TABLE:

The increased table area provides solid support for big workpieces. The massive table is made from high quality, rib reinforced and temper heat treated cast-iron for wear resistance. Table surface is precision ground and polished.

### SLIDING TABLE:

The sliding table is an integrated system providing maximum accuracy and effortless cutting effect. Tenoning attachment is included as a standard feature.

### FOOT SPINDLE BRAKE:

Treadle plate provides instant stop of the running spindle after shutting off the power.

### FOOT SPINDLE LOCK:

The spindle is foot treadle locked for convenient cutter and spindle change.



**YL-800M**

- Fixed table model
- Table area 36-1/2" x 61" (920 mm x 1,550 mm)
- 10 HP / 3PH motor (15 HP / 3PH optional)
- Foot spindle brake
- Foot spindle lock



**YL-800MS**

- Sliding table model
- Table area 36-1/2" x 61" (920 mm x 1,550 mm)
- 10 HP / 3PH motor (15 HP / 3PH optional)
- Foot spindle brake
- Foot spindle lock



**YL-800T**

- Tilting spindle model
- Table area 36-1/2" x 61" (920 mm x 1,550 mm)
- 10 HP / 3PH motor (15 HP / 3PH optional)
- Foot spindle brake
- Foot spindle lock



**YL-800TS**

- Tilting spindle with sliding table model
- Table area 36-1/2" x 61" (920 mm x 1,550 mm)
- 10 HP / 3PH motor (15 HP / 3PH optional)
- Foot spindle brake
- Foot spindle lock

## Specifications:

| Model                          | YL-800M                                                                       | YL-800MS                                                                      | YL-800T                                                            | YL-800TS                                                           | YL-800MD                                                                      | YL-800MSD                                                                     |
|--------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Spindle diameter               | 1", 1-1/4", 1-3/8", 1-1/2"<br>(25.4, 30, 35, 40mm)                            | 1", 1-1/4", 1-3/8", 1-1/2"<br>(25.4, 30, 35, 40mm)                            | 1", 1-1/4", 1-3/8", 1-1/2"<br>(25.4, 30, 35, 40mm)                 | 1", 1-1/4", 1-3/8", 1-1/2"<br>(25.4, 30, 35, 40mm)                 | 1", 1-1/4", 1-3/8", 1-1/2"<br>(25.4, 30, 35, 40mm)                            | 1", 1-1/4", 1-3/8", 1-1/2"<br>(25.4, 30, 35, 40mm)                            |
| Spindle travel                 | 6-5/8" (170mm)                                                                | 6-5/8" (170mm)                                                                | 6-5/8" (170mm)                                                     | 6-5/8" (170mm)                                                     | 6-5/8" (170mm)                                                                | 6-5/8" (170mm)                                                                |
| Tilting angle                  | —                                                                             | —                                                                             | -5° - 0° - +45°                                                    | -5° - 0° - +45°                                                    | —                                                                             | —                                                                             |
| Spindle speeds                 | 3000/4500/7500/10000<br>rpm (4 Speeds)                                        | 3000/4500/7500/10000<br>rpm (4 Speeds)                                        | 3000/4500/7500/10000<br>rpm (4 Speeds)                             | 3000/4500/7500/10000<br>rpm (4 Speeds)                             | 3000/4500/7500/10000<br>rpm (4 Speeds)                                        | 3000/4500/7500/10000<br>rpm (4 Speeds)                                        |
| Spindle taper                  | MK5                                                                           | MK5                                                                           | MK5                                                                | MK5                                                                | MK5                                                                           | MK5                                                                           |
| Table size                     | 36-1/2" x 61" (920mm x 1550mm)                                                | 36-1/2" x 61" (920mm x 1550mm)                                                | 36-1/2" x 61" (920mm x 1550mm)                                     | 36-1/2" x 61" (920mm x 1550mm)                                     | 36-1/2" x 61" (920mm x 1550mm)                                                | 36-1/2" x 61" (920mm x 1550mm)                                                |
| Sliding table size             | —                                                                             | 13' x 61"                                                                     | —                                                                  | 13' x 61"                                                          | —                                                                             | 13' x 61"                                                                     |
| Sliding table stroke           | —                                                                             | 54"                                                                           | —                                                                  | 54"                                                                | —                                                                             | 54"                                                                           |
| Table insert opening diameters | 3-15/16", 6-3/4", 8-1/4", 10-1/4", 13-1/4"<br>(4" (100, 170, 210, 260, 335mm) | 3-15/16", 6-3/4", 8-1/4", 10-1/4", 13-1/4"<br>(4" (100, 170, 210, 260, 335mm) | 8-1/4", 10-1/4", 13-1/4"<br>(210, 260, 335mm)                      | 8-1/4", 10-1/4", 13-1/4"<br>(210, 260, 335mm)                      | 3-15/16", 6-3/4", 8-1/4", 10-1/4", 13-1/4"<br>(4" (100, 170, 210, 260, 335mm) | 3-15/16", 6-3/4", 8-1/4", 10-1/4", 13-1/4"<br>(4" (100, 170, 210, 260, 335mm) |
| Spindle capacity under nut     | 4", 5-1/2", 5-1/2", 5-1/2"<br>(1", 1-1/4", 1-1/2", 1-3/8" Spindle)            | 4", 5-1/2", 5-1/2", 5-1/2"<br>(1", 1-1/4", 1-1/2", 1-3/8" Spindle)            | 4", 5-1/2", 5-1/2", 5-1/2"<br>(1", 1-1/4", 1-1/2", 1-3/8" Spindle) | 4", 5-1/2", 5-1/2", 5-1/2"<br>(1", 1-1/4", 1-1/2", 1-3/8" Spindle) | 4", 5-1/2", 5-1/2", 5-1/2"<br>(1", 1-1/4", 1-1/2", 1-3/8" Spindle)            | 4", 5-1/2", 5-1/2", 5-1/2"<br>(1", 1-1/4", 1-1/2", 1-3/8" Spindle)            |
| Table height                   | 35-1/2"                                                                       | 35-1/2"                                                                       | 35-1/2"                                                            | 35-1/2"                                                            | 35-1/2"                                                                       | 35-1/2"                                                                       |
| Fence size (L x W)             | 146mm x 600 mm<br>x 2pcs                                                      | 146mm x 600mm<br>x 2pcs                                                       | 146mm x 600mm<br>x 2pcs                                            | 146mm x 600mm<br>x 2pcs                                            | 146mm x 600mm<br>x 2pcs                                                       | 146mm x 600mm<br>x 2pcs                                                       |
| Motor horsepower               | 10HP/3PH (15HP/3PH Opt.)                                                      | 10HP/3PH (15HP/3PH Opt.)                                                      | 10HP/3PH (15HP/3PH Opt.)                                           | 10HP/3PH (15HP/3PH Opt.)                                           | 10HP/3PH (15HP/3PH Opt.)                                                      | 10HP/3PH (15HP/3PH Opt.)                                                      |
| N.W.                           | 720kgs                                                                        | 745kgs                                                                        | 745kgs                                                             | 840kgs                                                             | 745kgs                                                                        | 775kgs                                                                        |
| G.W.                           | 820kgs                                                                        | 845kgs                                                                        | 845kgs                                                             | 940kgs                                                             | 845kgs                                                                        | 875kgs                                                                        |
| Packing dimensions             | 65"(L) x 42"(W) x 52"(H)                                                      | 65"(L) x 42"(W) x 52"(H)                                                      | 65"(L) x 52"(W) x 52"(H)                                           | 65"(L) x 52"(W) x 52"(H)                                           | 65"(L) x 46"(W) x 52"(H)                                                      | 65"(L) x 46"(W) x 52"(H)                                                      |

\* Specifications and design characteristics are subject to change without prior notice.

## 2070series

### Outstanding Features

#### INTERCHANGEABLE SPINDLES:

Choice of 4 spindle diameters (1", 1-1/4", 1-3/8", 1-1/2" or in metric sizes 25.4mm, 30mm, 35mm, 40mm). Spindle has MK5 taper to ensure precision and allow quick changeover.

#### QUICK SPINDLE SPEED CHANGE:

The spindle is driven by a four-speed dynamically balanced pulley for spindle speeds of 3000, 4500, 7500 and 10000 RPM. Change of speed is quick and easily accomplished by simply loosening a lock lever, and shifting the belt to the required speed.

#### REVERSIBLE SPINDLE ROTATION:

The spindle is reversible to ensure safe rotation in clockwise or counter-clockwise direction as well as providing the ability to climb cut glued panels.

#### LIFTING SPINDLE:

The lifting spindle is moving up & down thanks to a lifting handwheel located on the side or on the front of the machine within easy reach. The travel distance is 6-5/8" (170mm).

#### SPINDLE RAISING:

The spindle is raised or lowered by a graduated precision handwheel, providing 1mm elevation per full revolution. Quick clamp lever positively holds spindle at a set height.

#### TABLE INSERTS:

The spindle is fitted with 5 insert rings (3-15/16", 6-3/4", 8-1/4", 10-1/4", 13-1/4") permitting use of a wide variety of shaper cutters.

#### EXTRA LARGE TABLE:

The increased table area provides solid support for big workpieces. The massive table is made from high quality, rib reinforced and temper heat treated cast-iron for wear resistance. Table surface is precision ground and polished.

#### SLIDING TABLE:

The sliding table is an integrated system providing maximum accuracy and effortless cutting effect. Tenoning attachment is included as a standard feature.

#### FOOT SPINDLE BRAKE:

Treadle plate provides instant stop of the running spindle after shutting off the power.

#### FOOT SPINDLE LOCK:

The spindle is foot treadle locked for convenient cutter and spindle change.



### YL-2070

- Fixed table model
- Two spindle configuration
- Table area 61" x 37-3/4" (1550mm x 960 mm)
- 7.5HP / 3PH motor x 2
- Foot spindle brake
- Foot spindle lock



### YL-2070S

- Sliding table model
- Two spindle configuration
- Table area 61" x 37-3/4" (1550mm x 960 mm)
- 7.5HP / 3PH motor x 2
- Foot spindle brake
- Foot spindle lock

## DOUBLE SPINDLE SHAPER

### Specifications:

| Model                          | YL-2070                                                         | YL-2070S                              |
|--------------------------------|-----------------------------------------------------------------|---------------------------------------|
| Spindle diameter               | 1", 1-1/4", 1-3/8", 1-1/2" (25.4, 30, 35, 40mm)                 |                                       |
| Spindle travel                 | 6-5/8" (170mm)                                                  |                                       |
| Spindle capacity under nut     | 4", 5-1/2", 5-1/2", 5-1/2" (1", 1-1/4", 1-3/8", 1-1/2" spindle) |                                       |
| Spindle speeds                 | 3000 / 4500 / 7500 / 10000 rpm (4 Speeds)                       |                                       |
| Spindle taper                  | MK5                                                             |                                       |
| Sliding table size             | —                                                               | 60-3/4" x 12"                         |
| Sliding table stroke           | —                                                               | 55-1/8" (1400mm)                      |
| Distance between spindle       | 27-1/2" (700mm)                                                 | 27-1/2" (700mm)                       |
| Table size                     | 61" x 37-3/4" (1550mm x 960mm)                                  | 61" x 37-3/4" (1550mm x 960mm)        |
| Table insert opening diameters | Ø100, Ø170, Ø210, Ø260, Ø335mm                                  | Ø100, Ø170, Ø210, Ø260, Ø335mm        |
| Table height                   | 35-1/2"                                                         | 35-1/2"                               |
| Motor horsepower               | 7.5HP / 3PH x 2 (10HP / 3PH optional)                           | 7.5HP / 3PH x 2 (10HP / 3PH optional) |
| N.W.                           | 910kgs                                                          | 970kgs                                |
| G.W.                           | 1030kgs                                                         | 1090kgs                               |
| Packing dimensions             | 67-1/2" x 53" x 53"                                             | 67-1/2" x 53" x 53"                   |

\* Specifications and design characteristics are subject to change without prior notice.

### Standard Equipment:

- Magnetic switch with overload protection
- Reversing switch
- Choice of spindle size: Specify spindle diameter when ordering.
- 5 Table inserts
- 5" Dust outlet x 2pcs
- Parts & Operations Books
- Service tool kit

### Optional Equipment:

- Digital display
- Routing operation
- Optional spindle size available
- Precision cast iron and aluminum fence



### PRECISION CAST IRON AND ALUMINUM FENCE

The 2070 series can be fitted with a precision cast iron and aluminum fence to perform independent spindle shaping operations (Along with 4" dust outlet x 1 pc).

## Outstanding Features

### Standard Equipment:



**RIGID, PRECISION SPINDLE:**  
The spindle assembly is carefully designed and manufactured to assure high precision and excellent cutting stability. Dynamically balanced for extra smooth running at high speed.

The spindle is supported by 4 class C3 ball bearings for outstanding rigidity and stability.

#### INTERCHANGEABLE SPINDLES:

Choice of several spindle diameters. Spindle has MK5 taper to ensure precision fitting and allow quick changeover.



#### QUICK SPINDLE SPEED CHANGE:

The spindle is driven by four-speed dynamically balanced pulley for spindle speeds of 3000, 4500, 7500 and 10000 RPM. Change of speed is quick and easily accomplished by simply loosening a lock lever, and shifting the belt to the required speed.

#### REVERSIBLE SPINDLE ROTATION:

The spindle is reversible to ensure safe rotation in clockwise or counter-clockwise direction as well as providing the ability to climb cut glued panels.



#### LIFTING SPINDLE:

The lifting spindle is moving up & down thanks to a lifting handwheel located on the side or on the front of the machine within easy reach.



#### TILTING SPINDLE:

The tilting spindle provides angle cutting from  $-5^\circ \sim 0^\circ \sim +45^\circ$ . Spindle tilting handwheel is located at front within easy reach. A tilt scale is attached for accurate angle setting.

#### SPINDLE RAISING:

The spindle is raised or lowered by a graduated precision handwheel, providing 1mm elevation per full revolution. Quick clamp lever positively holds spindle at a set height.

## 100% Quality Inspection for Excellence

### Superb Machine Stiffness

RUGGEDLY CONSTRUCTED THROUGHOUT FOR MAXIMUM STABILITY



#### TABLE INSERTS:

The spindle is fitted with several insert rings permitting use of a wide variety of shaper cutters.



#### FENCE:

Cast aluminum alloy fence halves are precision machined. The fence assembly is attached with a 4" or 5" diameter outlet dust hood. The fence halves can be precision adjusted by micrometric adjustment knob.

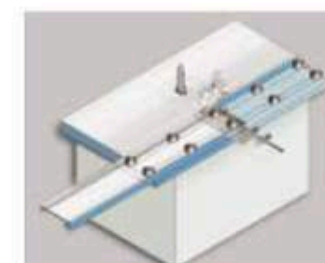


#### FOOT SPINDLE BRAKE:

Treadle plate provides instant stop of the running spindle after shutting off the power.

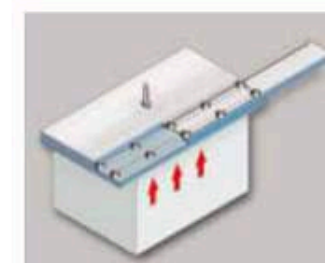
#### FOOT SPINDLE LOCK:

The spindle is foot treadle locked for convenient cutter and spindle change.



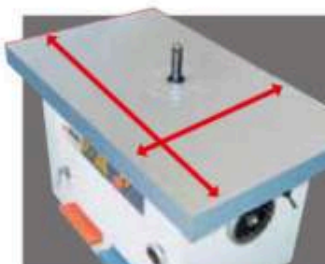
#### SLIDING TABLE:

The sliding table is an integrated system providing maximum accuracy and effortless cutting effect. Tenoning attachment is included as a standard feature.



#### EXCLUSIVE BEARING SUPPORT ON SLIDING TABLE:

The sliding table is equipped with bearings for full-support on the entire stroke without any overhang problem. Feed accuracy of sliding table is 0.002".



#### EXTRA LARGE TABLE:

The increased table area provides solid support for big workpieces. The massive table is made from high quality, rib reinforced and temper heat treated cast-iron for wear resistance. Table surface is precision ground and polished.



#### ANGLE MITER GAUGE ASSEMBLY (5 model):

- \* For straight and tilted operations.
- \* The miter gauge assembly is equipped with 1m long fence with swing stop.

### Optional Equipment:



#### DIGITAL DISPLAY

These displays accurately indicate spindle elevation, spindle angle and fence position.

#### ROUTING OPERATION

The MK5 taper on the spindle accepts a router collet system, providing maximum flexibility all in one shaping and routing machine.



#### SPINDLE FRONT GUARD:

The spindle front steel guard provides a great protection during cutting. The guard can be adjusted in up/down and front/back directions to suit various sizes of cutter.