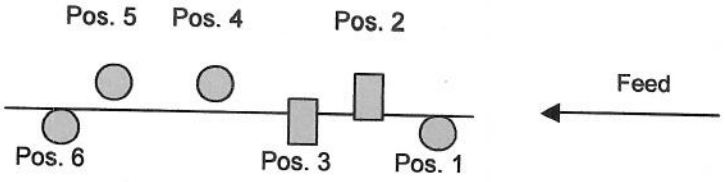
The Superset Series moulders are known throughout the industry for their quick changeover capability. This is made possible by SCM's patented "SET UP" quick tool setting system.

02.05.70 SUPERSET CLASS



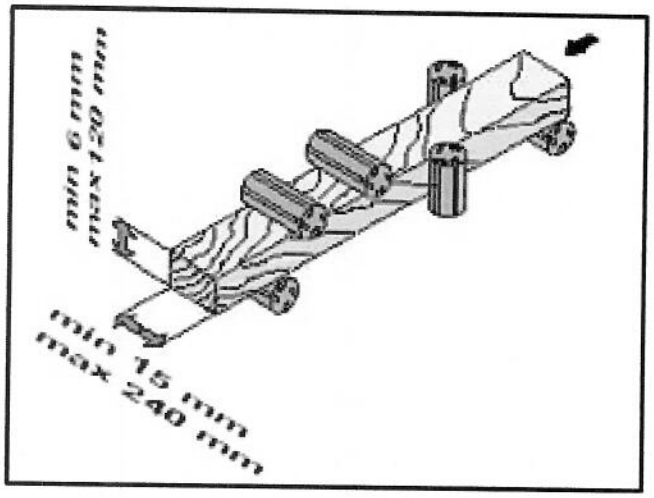
Feed =		4 HP
Position 1 = planer spindle	**97.13.90**	12 HP
Position 2 = right vertical spindle		9 HP
Position 3 = left vertical spindle		9 HP
Position 4 = I° top horizontal spindle	**97.13.91**	18 HP
Position 5 = II° top horizontal spindle	**97.13.91**	18 HP
Position 6 = bottom horizontal spindle	**97.13.90**	12 HP

WORK SECTION:

Working width:
- Minimum 15mm (.590")
- Maximum 240m (9.44")

Working Thickness:
- Minimum 6mm (.236")
- Maximum 120mm (4.724")

Superset Advantage
* High degree of flexibility *

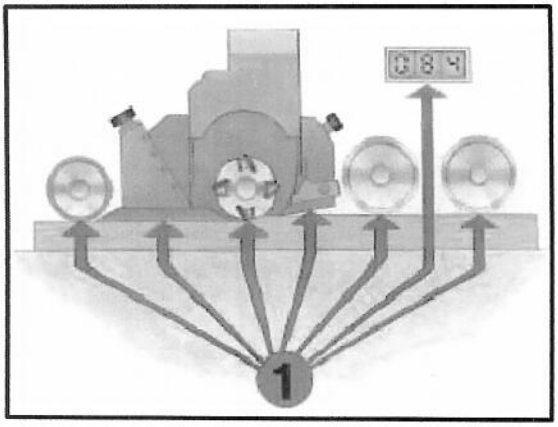


MACHINE BASE:
The machine bed is of thick steel with a strongly ribbed structure and Monobloc steel supporting base. The sturdiness and weight of the base along with the heavy -duty cast iron motor mounts, which are mounted directly on the base, reduce vibrations and guarantee life-long, constant, high quality performance. Cast iron spindle collars and feed roller pendulums further enhance the machine stability and performance

Superset Advantage
* No vibration means higher quality finish *
* Rugged design provides maximum durability and flexibility *

"SET-UP" SYSTEM:

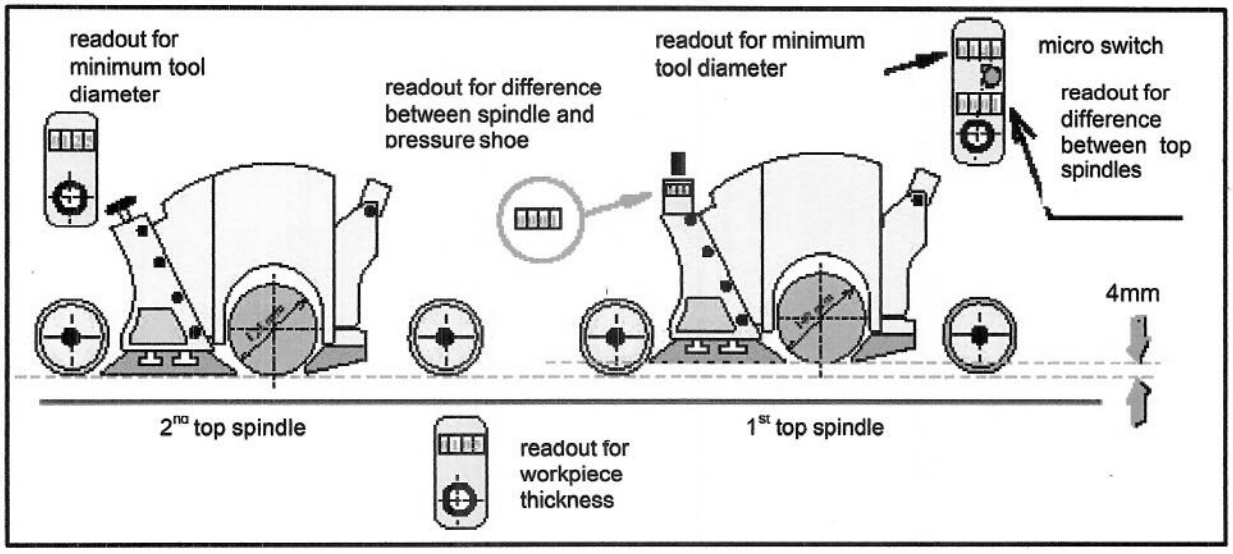
This is a patented system unique to SCM. This system ensures maximum efficiency and simplicity in changing from one profile to the next.
All spindles are fitted with "SET UP", the quick set-up system that enables most of the machine elements to be set in only one movement. By setting the minimum diameter of the tool (when dealing with a top horizontal spindle), the tool, working thickness, front and rear pressures and feed rollers are simultaneously adjusted. Only SCM has this ***Patented*** feature to increase productivity and eliminate downtime. Other moulder setting systems require 4-6 different adjustments to ***SCM'S 1*** adjustment! ***You're running product ($$$) before they even can finish the tool set-up!***



Superset Advantage
* Quick setups make even short runs more profitable *
* Simple system eliminates "trial and error" setups *

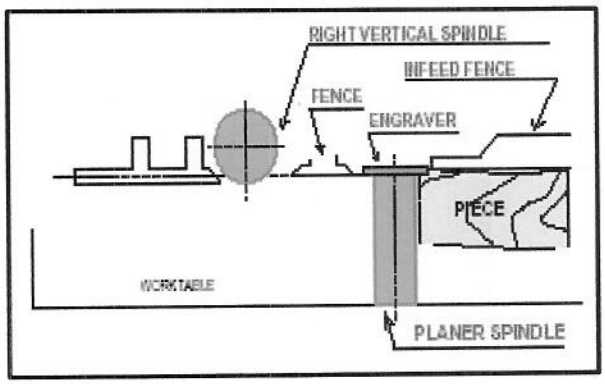
USE OF TOP SPINDLES:

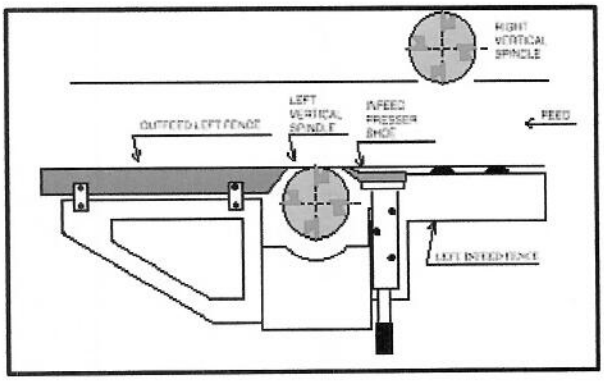
1) For use under normal conditions, the first top spindle is set 4mm higher than second spindle (rough cut and finishing operations)
2) When machining a new workpiece with a different thickness, both spindles move simultaneously, keeping the 4mm difference between the two spindles
3) When changing tools, the mechanical digital indicator for the respective spindle must be changed to reflect the new minimum diameter of the cutterhead
4) To change the alignment between the two top spindles, change the readings for the first spindle and the outfeed pressure shoe
5) To use only the first spindle, remove the tool from the second spindle and set the readout to "0"



WORKTABLES:
The in-feed worktable has a parallelogram system vertical adjustment complete with hardened insert placed before the planer spindle. Worktables are of wear resistant special cast iron with a low friction coefficient and are equipped with inserts in front of the vertical spindles. The table plates are separate from the vertical dovetail slide-ways which provide a better reference and wear area.

FENCES:
The parallelogram infeed fence is adjustable widthwise and the reference engraver fitted to the surface planer guarantees perfect pre-straightening of work-piece. The right fences are easily adjustable to optimum position according to tool diameter.





SPINDLES:
The spindle surfaces are hardened to avoid wear and are fitted with three precision matched bearings. The 120mm (4.750") diameter steel spindle cylinder ensures maximum stability and precision even during heavy duty machining. The maximum working width of 240mm (9.44") is supported by an 11.500" length spindle housing ensuring stability for wider profile widths.

Superset Advantage
* Three bearing design provides consistent, high quality finish *

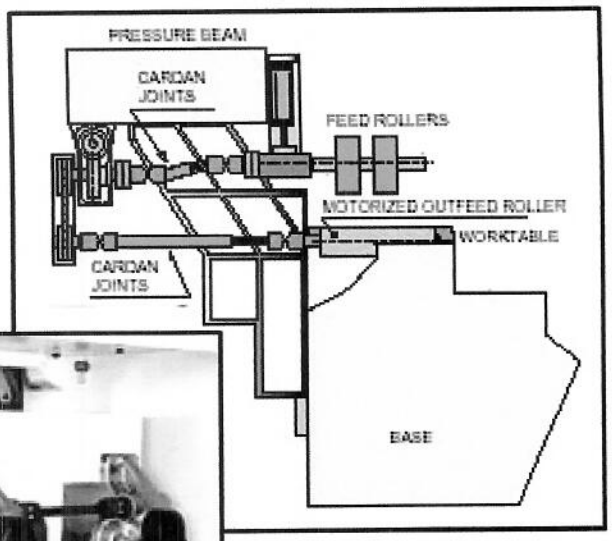
POSITIONING OF WORKING UNITS:
The adjustment of head units is controlled from the front of the machine with mechanical decimal readouts for each spindle adjustment (radial and axial) to .001". The readout display of work piece width and thickness section is done by mechanical decimal indicators that are placed on the front side of the machine. These are separate from the other readouts, providing a high accuracy of the wood width and thickness position of the left and top spindle.

ERGONOMICS:
All the controls are placed on the front side of the machine in an optimal position for easy access and use. The integral safety enclosure reduces noise and dust, guaranteeing a full view of the machine at the same time. The entire sound enclosure is of heavy steel with sound insert padding to reduce the noise level to CE standards and provide a safety barrier.

Superset Advantage
* Easy access simplifies operation and maintenance *
* Noise level is minimized, providing a safer working environment throughout the factory*

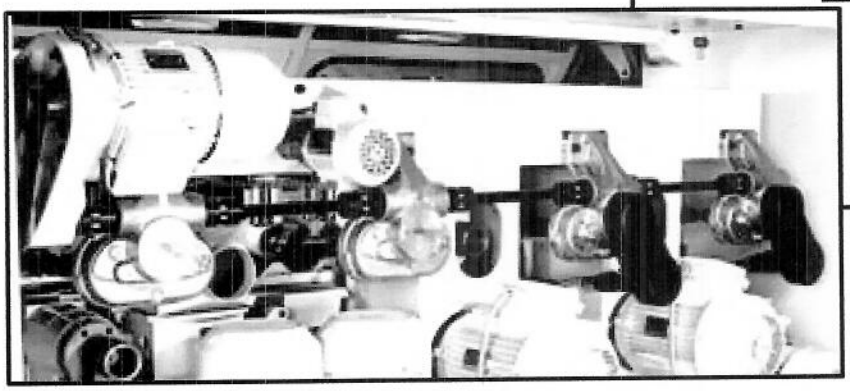
FEED SYSTEM:

The beam, which supports the feed system is supported by **two** vertical lifting posts and is powered by a lifting motor, which is combined with the top horizontal spindle. The beam is automatically positioned via **two 30mm diameter jack screws** to any new tooling diameter. Feed rollers are Cardan Shaft driven by a set of hardened gears with oil bath lubrication (rear end) and universal drive joints, guaranteeing maximum reliability and constant feed even during heavy duty machining.



Superset Advantage

* Consistent feeding of stock during heavy profiling operations *



The feed rollers are pneumatically pressurized with triple circuit control (roller before planer, between planer and top horizontal spindles, and after second top horizontal spindle) enabling optimal feed in accordance with the work piece to be processed. Feed speed is continuously adjustable from the operator's position through a variable speed gear. Two powered rollers, placed one before second top horizontal spindle and the other after last bottom horizontal spindle, improve feed especially during heavy duty machining. Spindles and feed rollers are of steel with hardened chromed surfaces with optimum penetration through the wood.

Superset Advantage

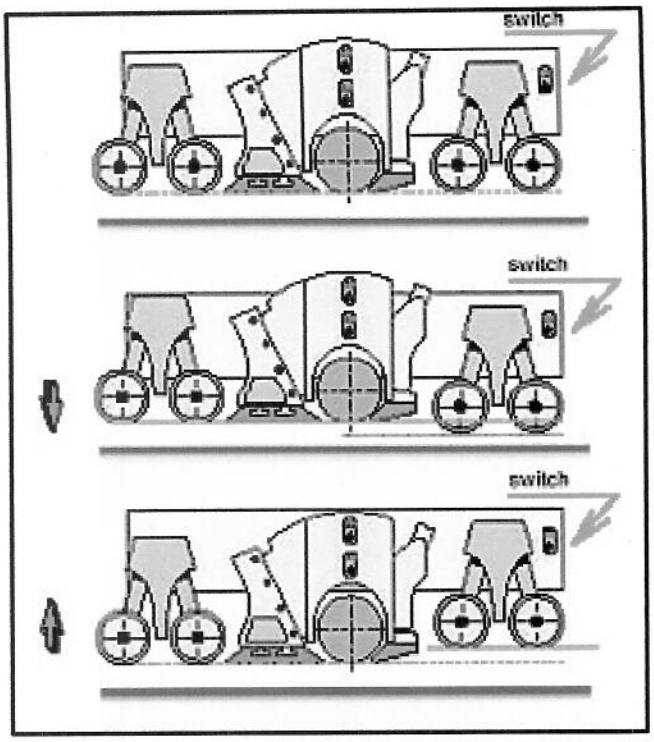
* Operation of feed rollers can be perfectly matched to the profile *
* Even pressure is assured even when stock varies in thickness *

AUTOMATIC FEED SYSTEM ALIGNMENT WITH TOP HORIZONTAL SPINDLES:

1) Under normal working conditions, the feed rollers are aligned with the minimum diameter of the tool (i.e., the pressure shoes).

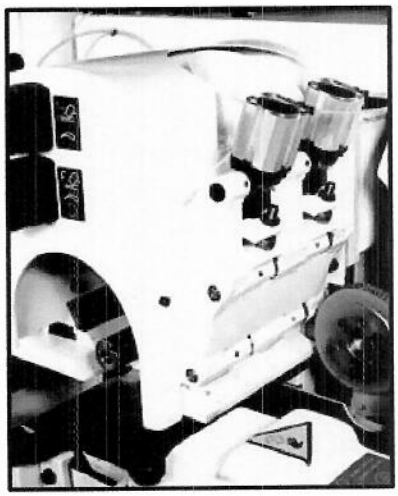
2) When machining batches with considerable thickness variation, the steel feed rollers can be lowered in order to optimize the feeding. Once the work has been completed, simply turn the switch to re-align the rollers.

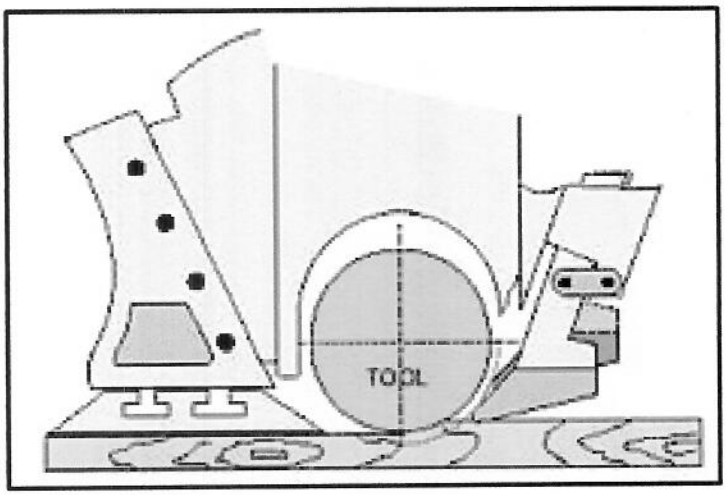
3) To remove a jammed workpiece from the machine, the steel rollers can be raised without moving the top spindle or the pressure shoes. Once the workpiece has been removed, simply turn the switch to re-align the rollers.



RECEDING CHIPBREAKER:

The pressure shoe placed in front of the top horizontal spindles is equipped with parallelogram movement and pneumatic pressure adjustment.





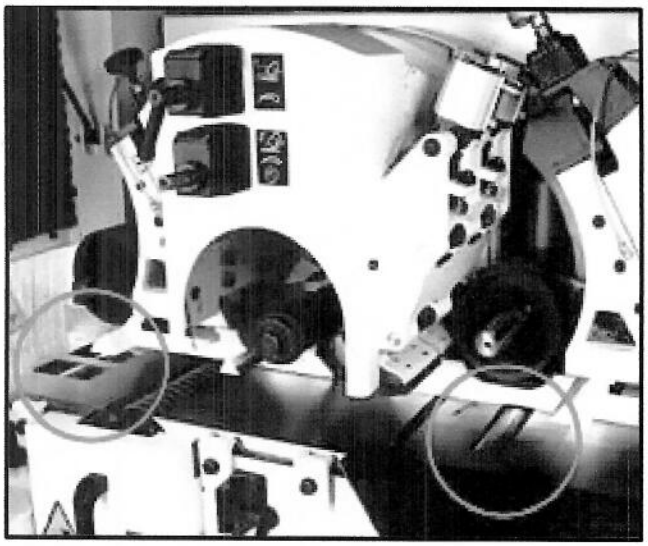
Superset Advantage

* Distance between pressure shoe and cutting tool does not change due to varying workpiece thicknesses *
* Correct pressure on the workpiece without the risk of jamming *

POWERED FEED ROLLERS ON WORKTABLE

The Superset Class is equipped with two powered feed rollers on the worktable. They are large diameter (100mm) steel rollers with vertical adjustment.

Superset Advantage
* Powered rollers allow feeding of workpieces with a greater degree of variation *



MACHINE STANDARD FEATURES:

- Pressure shoes placed before top horizontal spindles with parallelogram displacement and pneumatic pressure
- FVA device: it enables vertical positioning of steel feed rollers independently of top horizontal spindles position
- 2 powered rollers in worktable
- Pneumatic exclusion from control panel of powered feeding group placed before planer spindle
- Horizontal pressure roller placed before planer with pneumatic exclusion from control panel
- Worktable with hardened insert placed before planer
- Manual lubrication pump for worktable
- One idle pressure roller in front of right vertical spindle
- 2 feed rollers 140 x 25 for each feed hub
- Inside illumination of safety enclosure

MACHINE INCLUDES THE FOLLOWING OPTION CODES:

13.11.49	1 13/16" diameter spindles
27.12.47 / 27.12.48	Electro mechanical motor brakes for spindles 1-6
36.01.93	Manual centralized lubrication points from the front side of the machine, color-coded for production maintenance schedule

TECHNICAL SPECIFICATIONS

Min. working width (finished section)	15mm (.590")
Max. working width (finished section)	240mm (9.448")*
Min. working thickness(finished section)	6mm (.236")
Max. working thickness(finished section)	120mm (4.724")
Min. length of single component	620mm (24.409")**
Motor power for feed system	4 HP
Feed Speed - variable	5 - 25 m/min (18 - 78 ft/min.)
Spindle speed	6000 rpm
Spindle diameter	1 13/16"
Vertical spindle working length	140mm (5.511")
Horizontal spindle working length	250mm (9.842")
Axial adjustment of vertical spindles relative to table	80mm (3.149")
Axial adjustment of horizontal spindles relative to right fence	45mm (1.771")
Min/max diameter of tools on planer spindle	120-140mm (4.724" – 5.511")
Min/max diameter of profiling tools	100-200mm (3.937" – 7.874")***
Profiling capacity on 2nd bottom horizontal head with 200mm (7.874") diameter tool	15 mm (.590")
Spindle cylinder diameter	120 mm (4.724")
Diameter of feed rollers	140mm (5.518")
Length of in-feed table	2000mm (78.740")
Rapid adjustment of in-feed table & fence	10 mm (.393")
Power requirements	112 AMPS @ 460V ***
Dust extraction requirements	6800 CFM @5000 FPM

* with 125 mm diameter tool on left vertical spindle
** 450 mm min. length with relative optional
*** 40 mm. profiling capacity under worktable on left vertical spindle
Machine wired at 460 volts
+5% / - 5% Allowable voltage fluctuation