

TCM series offers an integral premium covering price, quality & service, all of which are based on cost effectiveness and certified by US customers over the last 20 years

TCM

SERIES

20 26 32 385

The Manufacturer of Swiss Lathes

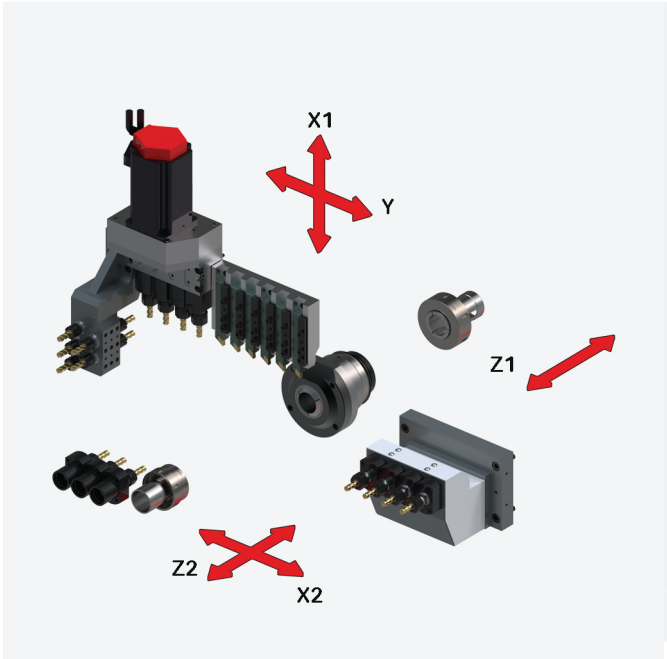


TCM
Industry

TCM 20 26 32 38S

TCM Series
S Type


The More for Less Tough enough to tackle any job




| S type | Unit | 20S | 26S | 32S | 38S |
|------------------------|------|----------------|-----|-----------|-----|
| Max Machining Diameter | mm | Φ20 | Φ26 | Φ32 | Φ38 |
| Max Machining Length | mm | 300/1 chucking | | | |
| Main Spindle | rpm | 10,000 | | 8,000 | |
| | kW | 2.2 / 3.7 | | 5.5 / 7.5 | |
| Sub Spindle | rpm | 8,000 | | 8,000 | |
| | kW | 1.5/2.2 | | 1.5/2.2 | |
| Weight | kg | 3,500 | | | |

| No of Tools | Unit | 20S | 26S | 32S | 38S |
|-----------------|------|-----|-----|-------------------------|-----|
| Total | each | 27 | | | |
| OD | each | 6 | | | |
| ID (Front) | each | 10 | | Front 5+Rear 5 (ER16) | |
| Cross | each | 4 | | ER16 | |
| Back | each | 4 | | 2 Driven+2 Fixed (ER16) | |
| Sub (Eccentric) | each | 3 | | 2 Driven+1 Fixed (ER16) | |


| Feed Drive System | Unit | Z1 | X1 | Y | Z2 | X2 |
|-------------------|-------|-----|----|-------|-----|-----|
| Feed Distance | mm | 300 | 62 | 391.5 | 300 | 405 |
| Rapid Feed Speed | m/min | 32 | 20 | 32 | 32 | 32 |



300mm/1 chucking
Max Machining Length

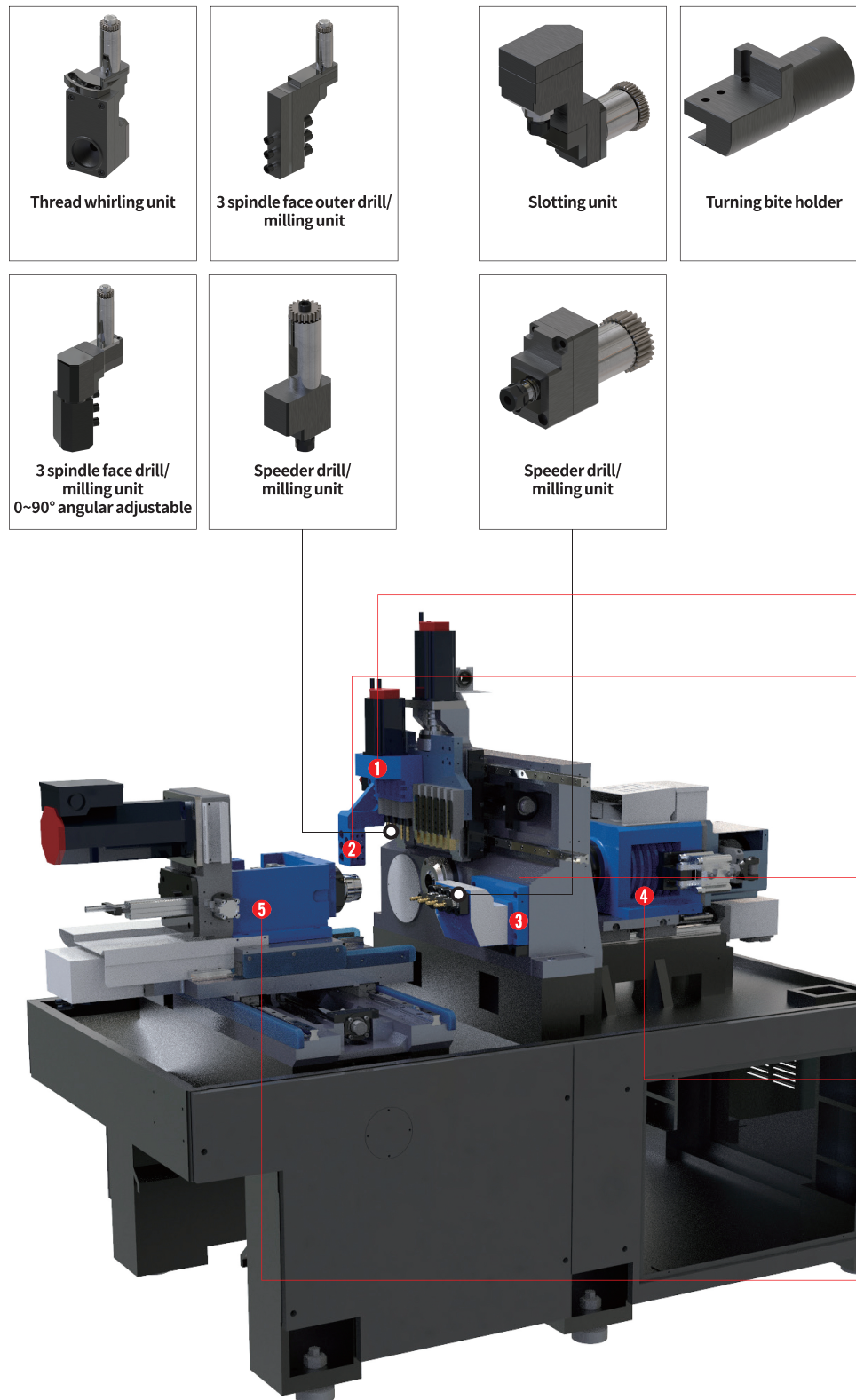


27
Total No of Tools



3,500kg
Weight

Optimized Special Tools



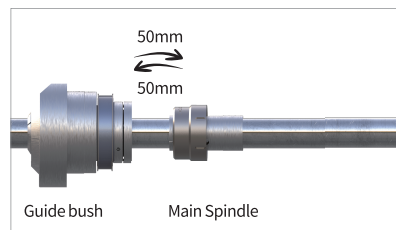
Differentiated Strengths

Intelligence Chucking System

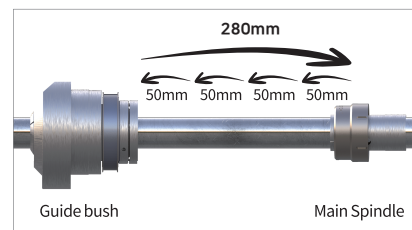


This system enables TCM machine to set a chucking position depending on a workpiece length using the total stroke compared to the existing chucking method to reset the chucking position at every cycle.

- The cycle time for a workpiece can be reduced as 1.5 sec approximately
- It can be used simply by activating the function on the custom screen
- A remained bar can be controlled as a certain length with the interface of a bar feeder



Intelligence Chucking System Off



Intelligence Chucking System On

Bed



Since its establishment in 1987, TCM Industry has produced castings with manufacturing methods which comply with currently JIS standards based on the Meehanite process. Especially, natural annealing creates microstructures and contributes to remove any internally remaining stress as well as increase toughness.

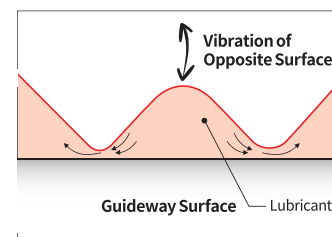
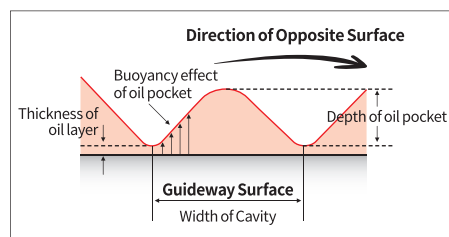
- TCM S series weight 3,500
- TCM H series weight 4,500

TCM series beds produced by TCM Foundry Division is the heaviest of any comparable Swiss-type on the market. Much of this weight is attributed to the extremely rigid and stable base casting and tool stand, which reduces vibration and provides thermal stability critical to maintaining tight tolerances on workpieces.

Scrapping

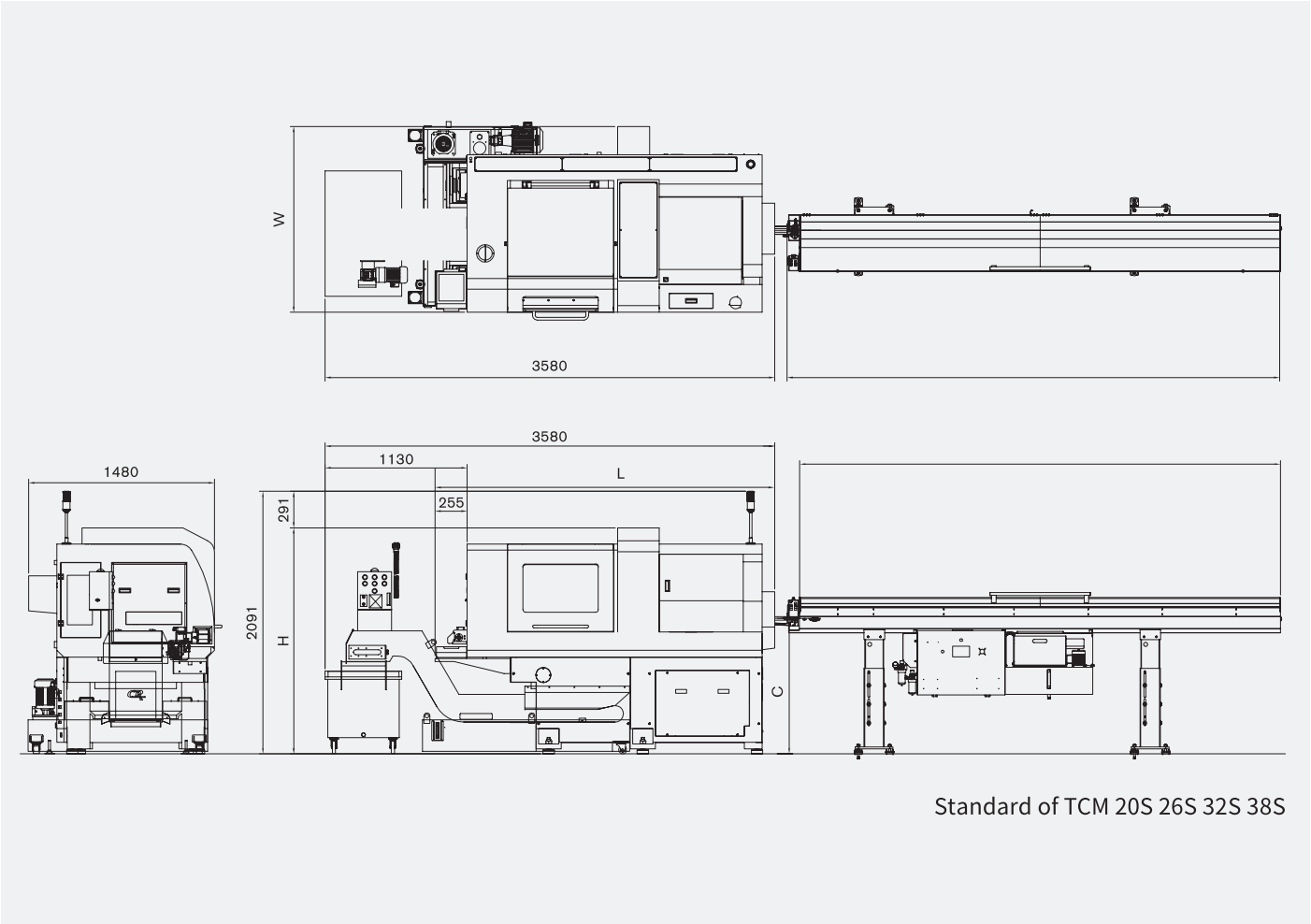


When applying hand scraping on the main-sub spindles & tool post, the created oil & air pockets convert the vibration energy which occurs between contact surfaces. This has the effect of increasing contact ratio, reduces vibration, guarantees a degree of precision & prevents any distortion by the machine.



The principle of decreasing friction by the levitation force of oil pockets

Dimensions



| TCM series | Unit | 20S | 26S | 32S | 38S |
|-------------------|------|-----|-----|-------|-----|
| Length (L) | mm | | | 2,785 | |
| Width (W) | mm | | | 1,480 | |
| Height (H) | mm | | | 1,800 | |
| Center Height (C) | mm | | | 1,080 | |
| Weight | kg | | | 3,500 | |



TCM Industry's expertise is based on casting technology over the past 30 years.
Having established vertical integration from casting to machining & assembly,
we now take the lead in the cost effectiveness trend over pure price competitiveness.



For more information, Please contact with us by e-mail or telephone

 www.tcmindustry.com

 1106,Dongan-ro, Yeonmu-eup, Nonsan city, Chungnam, Republic of Korea

 +82 41 742 8154

 +82 41 741 8154

 swlee@tcmindustry.com