

**Und** The #1 Single Spindle Chucker





- 60 Degree Slant Bed
- Monoblock Casting with 'Marcrete'
- 6000 RPM & 36m/min. Rapids
- Upto 8 tools per spindle with
- SmartFlow (Patented) Coolant System

# **#1** *uno* Basic Features

#1

#### Smart Flow



SmartFlow (Patent Applied)

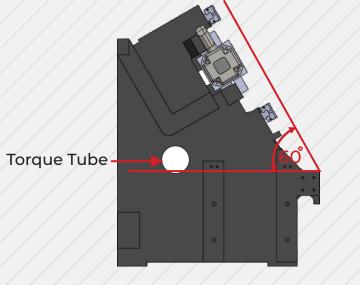
**SmartFlow** ensures that the Block where tool is performing machining operation gets 100% of pump flow&pressure.

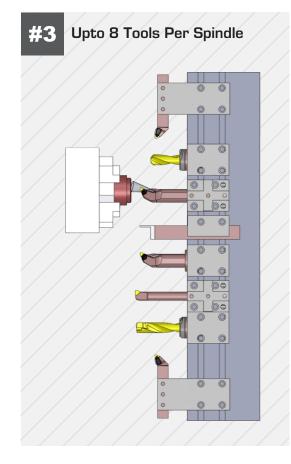


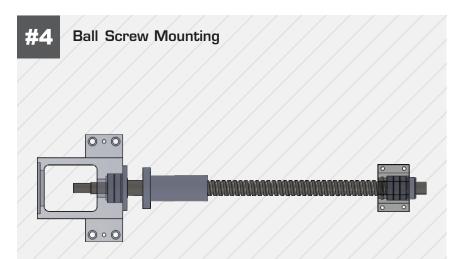
#### 60° Slant Bed Structure

The Monoblock structure (Single piece casting) with 60 Slant angle & Torque tube design offers the following benefits

- 1. Very high rigidity.
- 2. Thermal Stability.
- 3. Excellent chip evacuation.

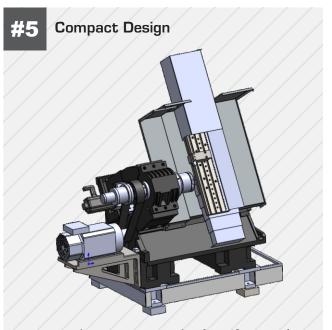






Both X and Z ball screw assemblies are fixed at both ends and pre-tensoined ensuring reduced thermal growth & class leading rapids of 36 m/min. (1417 lpm)

### **Basic Features**

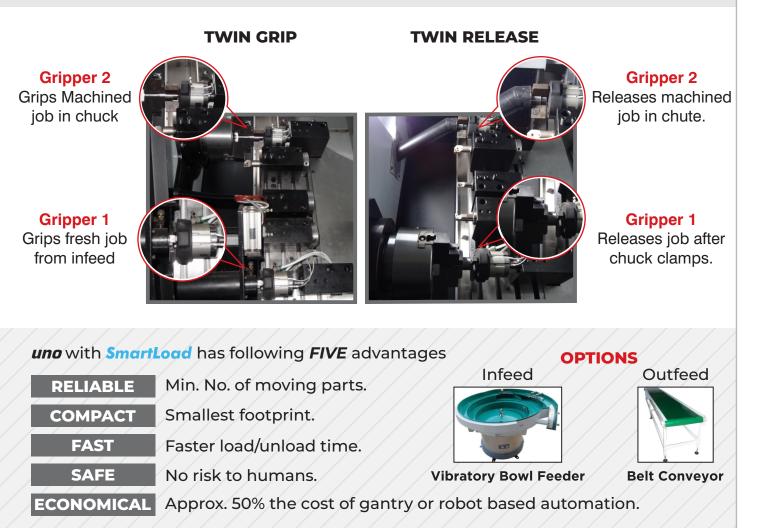


Extremely compact design for saving shop floor space.



Symetric design of Head stock ensures equal thermal expansion in all direction and hence no displacement of spindle axis thereby ensuring stability of turned sizes.

#### Patented SmartLoad based on "TWIN GRIP TWIN RELEASE"



Marshall Automation America. Inc.

#### **UNO** has the highest specifications, features & performance among CNC chuckers. CAPACITY BLOCK TOOL Swing Over Carriage Cover mm(In) 360 (14.17) No. of Tools 8 Maximum Turning Dia. mm(In) 200 (7.9") Tool Size OD mm(In) <u>¤ 25 (¤1")</u> Maximum Turning Length mm(In) 160 (6.30") Tool Size ID mm(In) 32 (1.2") Maximum Boring Length mm(In) 150 (5.9") TANK CAPACITY SPINDLE Coolant Tank 120 (31.7) Chuck Size mm (In) 165 (6") Lubricating Tank 1.8 (0.5) Spindle Speed (rpm) 6000 Motor (Max/Cont.) KW (HP) 15/11 (20/14.7") Torque (Max/Cont.) N.m (lbf.ft) 95.5/70 (70.4/51.6") MACHINE Spindle Type V-Ribbed Belt Floor Space (L x W) 2,160 x 1,600 (85" x 63") Spindle Nose A2-5 Height mm (In) 2,200 (86.61") 4000 (8818 lbs) Weight Kg. (lbs) **FEED** Travel (X / Z) mm(In) 500/180 (19.70/7") NC Rapid Traverse Rate (X /Z) m/min(ipm) 36/36 (1.41"/1.41")

Note : Product improvement is a continuous process at "Marshall". Design & Specifications are therefore, subject to change.

LM GUIDE

Controller

## §,Ð,°Ây,ÃÌÃ,ËÆÅÆ∕SmartLoad

Slide Type

\$ 4400.00

A cell of 4 Nos. CNC Lathes requires **4 Operators per shift.** Monthly cost of operator per machine per shift

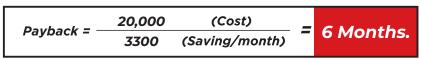
Cell of 4 Nos. **UNO** with **SmartLoad** requires **One Operator per shift.** Therefor Monthly cost of operator per machine per shift **\$ 1100.00** 

SIEMENS 828D / FANUC OITF



Saving per month with Automated **uno** (Single shift basis) **4400 - 1100 = <mark>\$ 3300.00</mark>** Approx cost of base version of **SmartLoad** is \$20,000

#### (Single shift working)



# Payback Period (Three shift working) is **2** months only!



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