Marshall presents

# Juno

## Unique machining solution to CUT COST per component


**#1**

**RIGIDITY**
**SPEED**
**PRODUCTIVITY**
**TOOL LIFE**

- 60 Degree Slant Bed
- Monoblock Casting with 'Marcrete'
- 6000 RPM & 36m/min. Rapids
- Upto 8 Nos. Tools in Total
- Upto 5 Nos. Live Tools
- Radial Live Tools mounted on Y axis for more Productivity

# #1 Basic Features

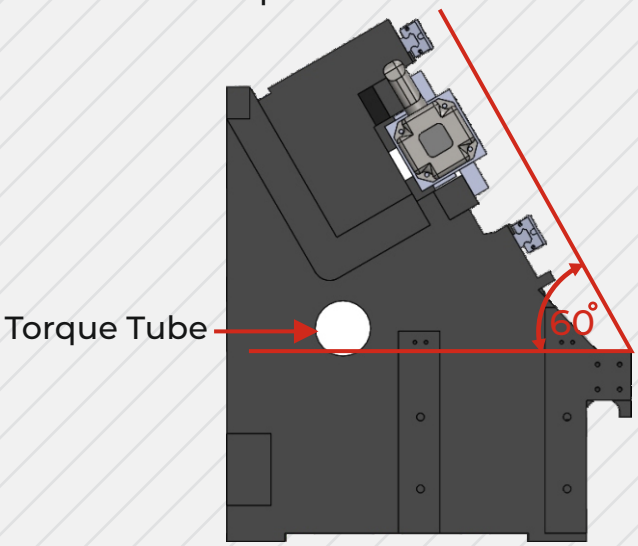
## #1 Smart Flow

***SmartFlow***
(Patent Applied)

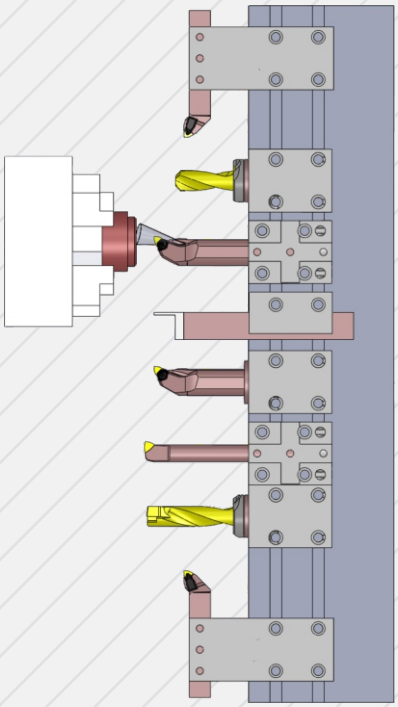
***SmartFlow*** ensures that the Block where tool is performing machining operation gets 100% of pump flow & pressure.

## #2 60° Slant Bed Structure

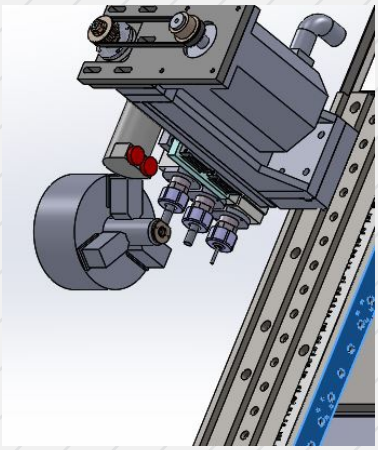
The Monoblock structure (Single piece casting) with 60 Slant angle & Torque tube design offers the following benefits
1. Very high rigidity.
2. Thermal Stability.
3. Excellent chip evacuation.




## #3 Upto 8 Tools Per Spindle



## #4 Radial Live Tool



Radial Live Tools mounted on Y axis for ZERO Interface & higher productivity

# *The Challenge*

**A wide variety of Jobs need MILLING and DRILLING operation after turning**

## OPTION 1

CNC Turning + VMC

### Disadvantages

#1: Higher Capital Expenditure

#2: Extra Space & Manpower required

#3: Quality issues because of two clampings

# 4: Line Balancing problem

## OPTION 2

CNC TurnMill Centre with Live Turret

### Disadvantages

#1: Expensive machines with costly live holders

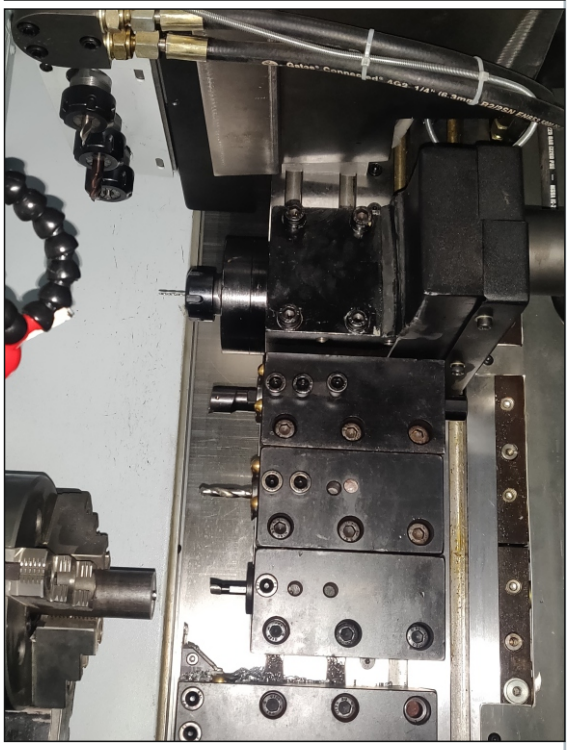
#2: Higher maintenance cost in case of accidents

#3: Machine with additional Y axis is very expensive

## The Solution

# Juno

Turn, Mill & Drill with unmatched productivity, Achieve **lowest** cost per component

To Check Video Solution

**CLICK HERE**

## *Juno:* Better than TurnMill Center with Live Turret

**ADVANTAGES**

#1: Much Lower Cost

#2: Faster Cycle time due to Linear Tooling

#3: Saving in Expensive Live Tool Holders

#4: Simple, Rugged design needs much less maintenance.

#5:  Y axis operation capability

# *Juno* has the highest specifications, features & performance

## CAPACITY

| | |
|---|---|
| Swing Over Carriage Cover mm(In) | 360 (14.17) |
| Maximum Turning Dia. mm(In) | 200 (7.9") |
| Maximum Turning Length mm(In) | 160 (6.30") |
| Maximum Boring Length mm(In) | 150 (5.9") |

## SPINDLE

| | |
|---|---|
| Chuck Size mm (In) | 165 (6") |
| 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") |
| Spindle Type | V-Ribbed Belt |
| Spindle Nose | A2-5 |

## FEED

| | |
|---|---|
| Travel (X / Z) mm(In) | 500/180 (19.70/7") |
| Rapid Traverse Rate (X /Z) m/min(ipm) | 36/36 (1.41"/1.41") |
| Slide Type | LM GUIDE |

## CNC

Controller SIEMENS / FANUC OiTF

## TOOLS

| | |
|---|---|
| No. of Tools (Total) | 8 |
| Tool Size OD mm(In) | ▫25 (▫1") |
| Tool Size ID mm(In) | 32 (1.2") |

## LIVE TOOLS

| | |
|---|---|
| Max. No. of Radial Tools | 3 |
| Max. No. of Axial Tools | 2 |

## TANK CAPACITY

| | |
|---|---|
| Coolant Tank | 120 (31.7) |
| Lubricating Tank | 1.8 (0.5) |

## MACHINE

| | |
|---|---|
| Floor Space (L x W) | 2,160 x 1,600 (85" x 63") |
| Height mm (In) | 2,200 (86.61") |
| Weight Kg. (lbs) | 4000 (8818 lbs) |

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

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