

	Unit	SR 3 XP	SR 42	SR 55
X Axis	mm	762	1050	1350
Y Axis	mm	430	540	640
Z Axis	mm	460	560	660
Spindle Center to Column Cover	mm	435	550	640
Spindle Nose to Table <sup>(min)</sup>	mm	75	75	100
Spindle Nose to Table <sup>(max)</sup>	mm	535	635	760
Table				
Length	mm	910	1200	1500
Width	mm	380	480	600
T-Slot Width	mm	16	16	18
T-Slot Pitch		80	80	100
Number of T-Slot		4	5	5
Max Weigth on Table	Kg	792	1470	1950
Spindle				
Max Rating	kW	15 HP	18 HP	18 HP
Max Speed	rpm	9000	10000	10000
Drive System		Belt	Belt	Belt
Taper		BT 40	BT 40	BT 40
Bearing Lubrication			Grease	Grease
Feedrates				
Rapids on X	m/min	36	30	30
Rapids on Y	m/min	36	30	30
Rapids on Z	m/min	30	25	25
Cutting Feedrate	m/min	12/12/10	12/12/10	12/12/10
Tool Changer				
Type		Twin Arm	Twin Arm	Twin Arm
Capacity		20	24	24
Max Tool Diameter <sup>(Adjacent Pocket Empty Full)</sup>	mm	75	75	75
Max Tool Diameter <sup>(Adjacent Pocket Empty)</sup>	mm	150	150	150
Max Tool Length	mm	250	250	250
Max Tool Weight	Kg	7	7	7
Tool Change Time <sup>(T - T)</sup>	s	2.2	2.2	2.2
General				
Chip Disposal		Opt	Opt	Opt
Air Required		6bar , 115Lpm	6bar , 115Lpm	6bar , 115Lpm
Coolant Capacity	L	150	350	350
Power Reuirement	KVA	20	25	25

## Standard Features

- C-Frame Design
- Rigid platform
- Meehanite Cast Iron Contstruction
- Golden Triangular Frame
- Reinforced Sturcture, Heavy Ribbing for deformation resistance
- Cooled Headstock
- Double-anchorded Ballscrew
- Directly-coupled Servo motors
- LM Guideways



## SR SERIES 40- TAPER PERFORMANCE

### Suitable for Advanced VMC users

Super rigid C-frame machine structre, designed for stabilty during high-speed cutting make it a versatile machining center with advanced capabilities for cost effective small-parts machining.



**AKIRA-SEIKI®**

**Always keeps moving to  
advance your future success.**

With 20 years solid profession in machine tool technology, Akira Seiki expands marketing development from USA to the international.

In the past, we built reliable machineries to process customers' success in USA where is keen competition. Now, we enlarge our mission to progress your competition wherever you are.

AKIRA SEIKI President

*Ah Xhm*



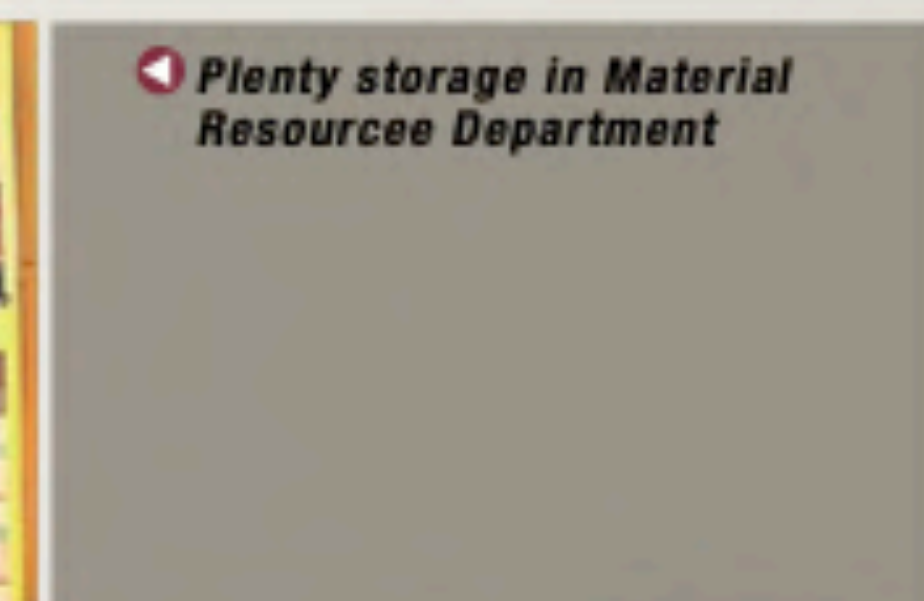
▲ AKIRA-SEIKI® Headquarter in USA



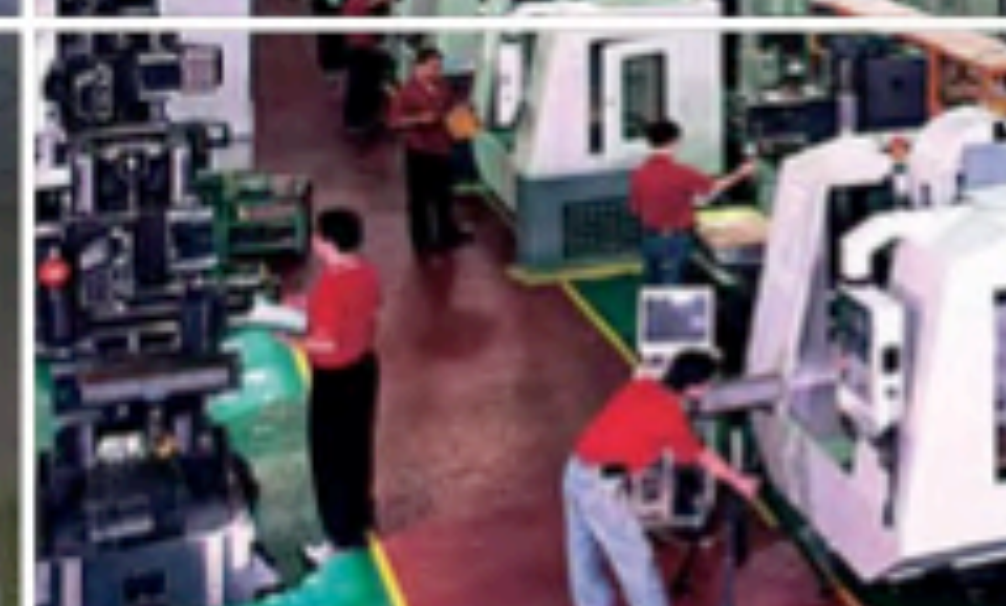
▲ AKIRA-SEIKI® 1st Factory

## Well Practice In Quality

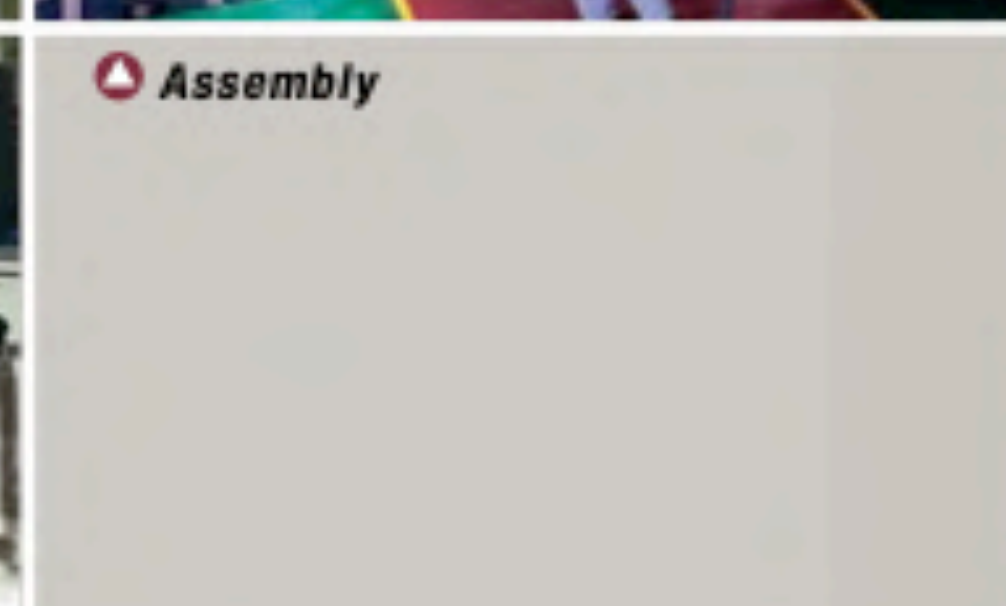
Akira Seiki well management in production and quality is the fore and ever guarantee to our customer. Thorough practice of **Quality Process Activity**, every Akira Seiki execution is regulated and presented with documentary **Standard Operation Procedure**. Akira Seiki always carries on the professional **Research & Development** of next successful machine tool product to keep our customer advancement in the future.



◀ Plenty storage in Material Resource Department

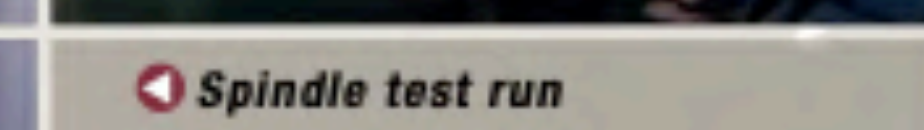


▲ Research and Development



▲ Quality Control

▲ Assembly

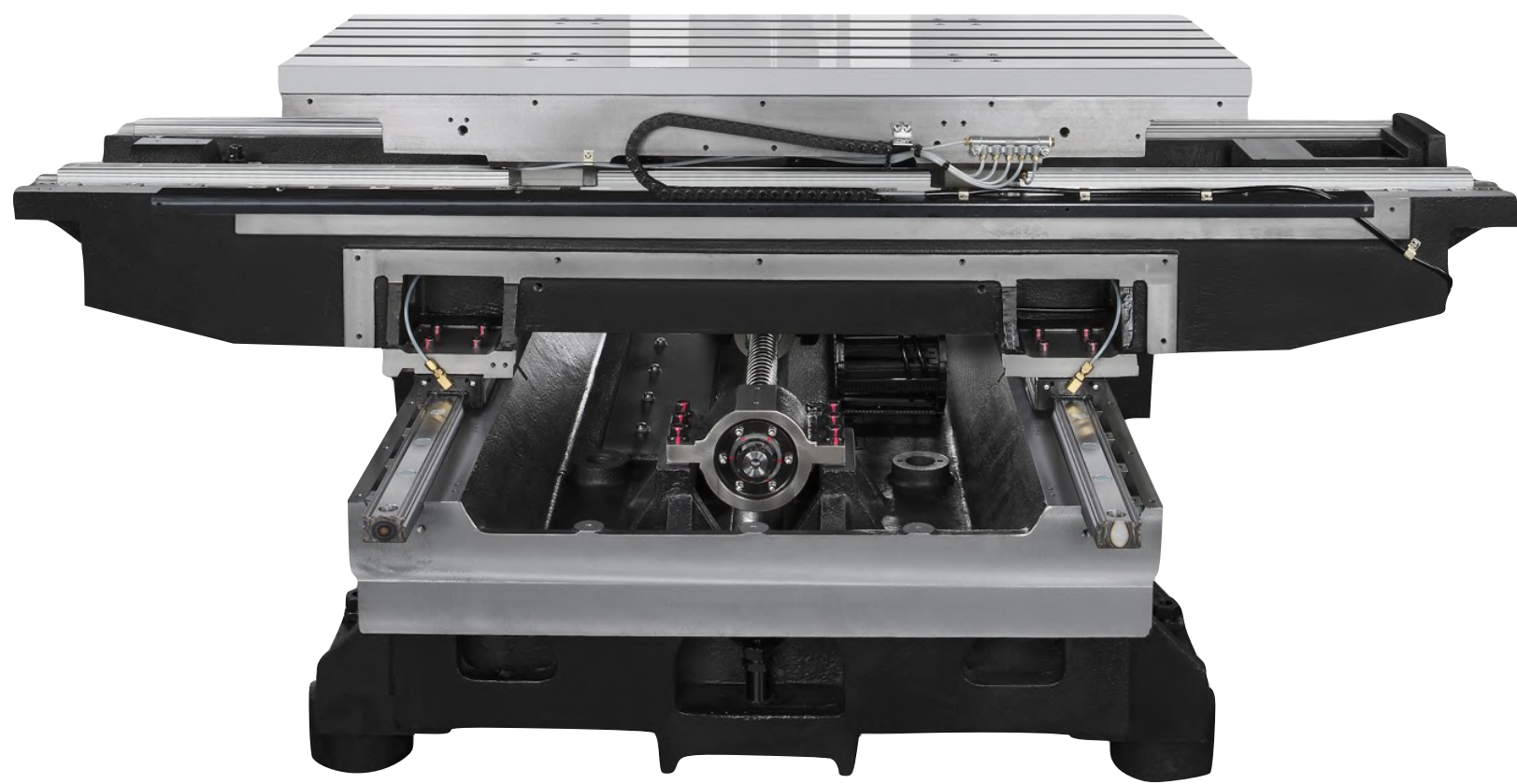


◀ Spindle test run



Large Y Axis stroke allows wider work area compared to other machines

	X Axis Stroke	Y Axis Stroke
SR 3 XP	762 mm	430 mm
SR 42 XP	1050 mm	540 mm
SR 55 XP	1350 mm	640 mm



Larger Work Table  
EQUALS  
More Space for your fixture

SR 3 XP	910 x 380 mm
SR 42 XP	1200 x 480 mm
SR 55 XP	1500 x 600 mm

Casting with Reinforced Ribbing

SUCCESS COMES FROM WITHIN

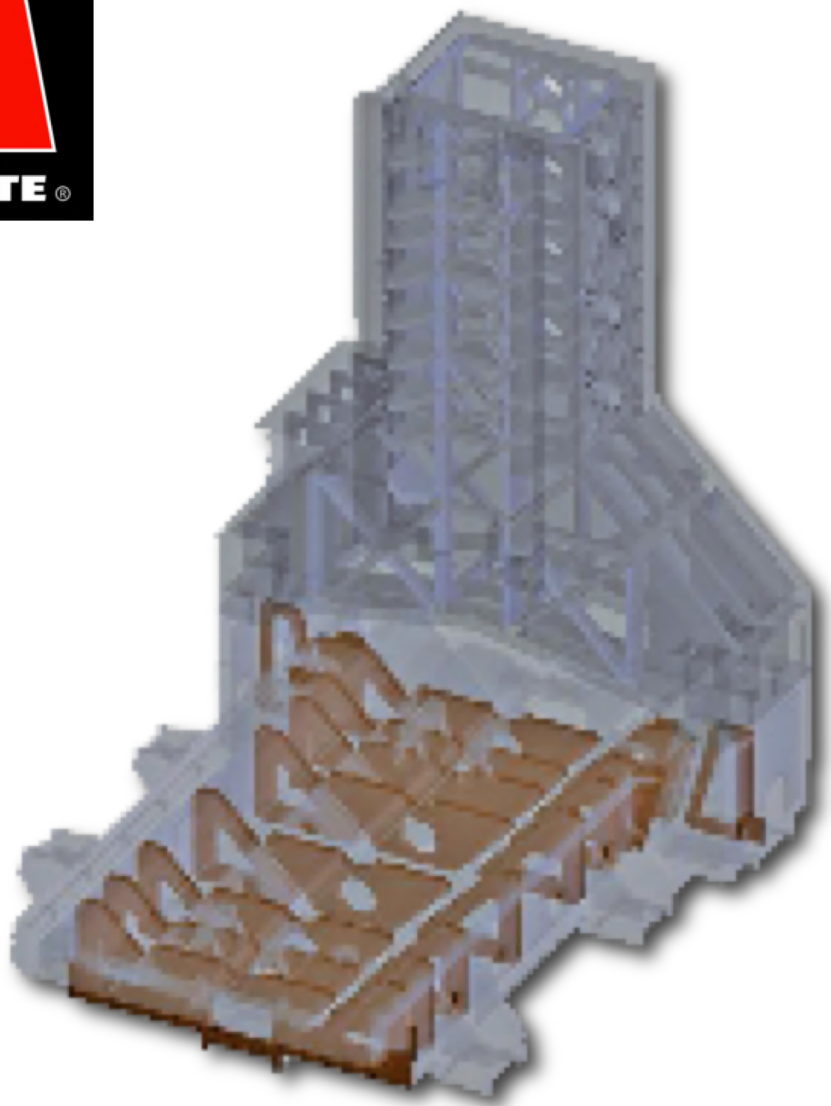
Akira Seiki VMC's castings are steady as rock to perform excellent dynamic accuracy and vibration absorption while high feed cutting

Designed for

Vibration Absorption    Heat Dissipation

Minimize Deflection    Absorb Cutting Forces

Wide span of the machine base and bigger distance between Y axis LM guides are the key to the machines stability supporting the superior axis acceleration and deceleration.



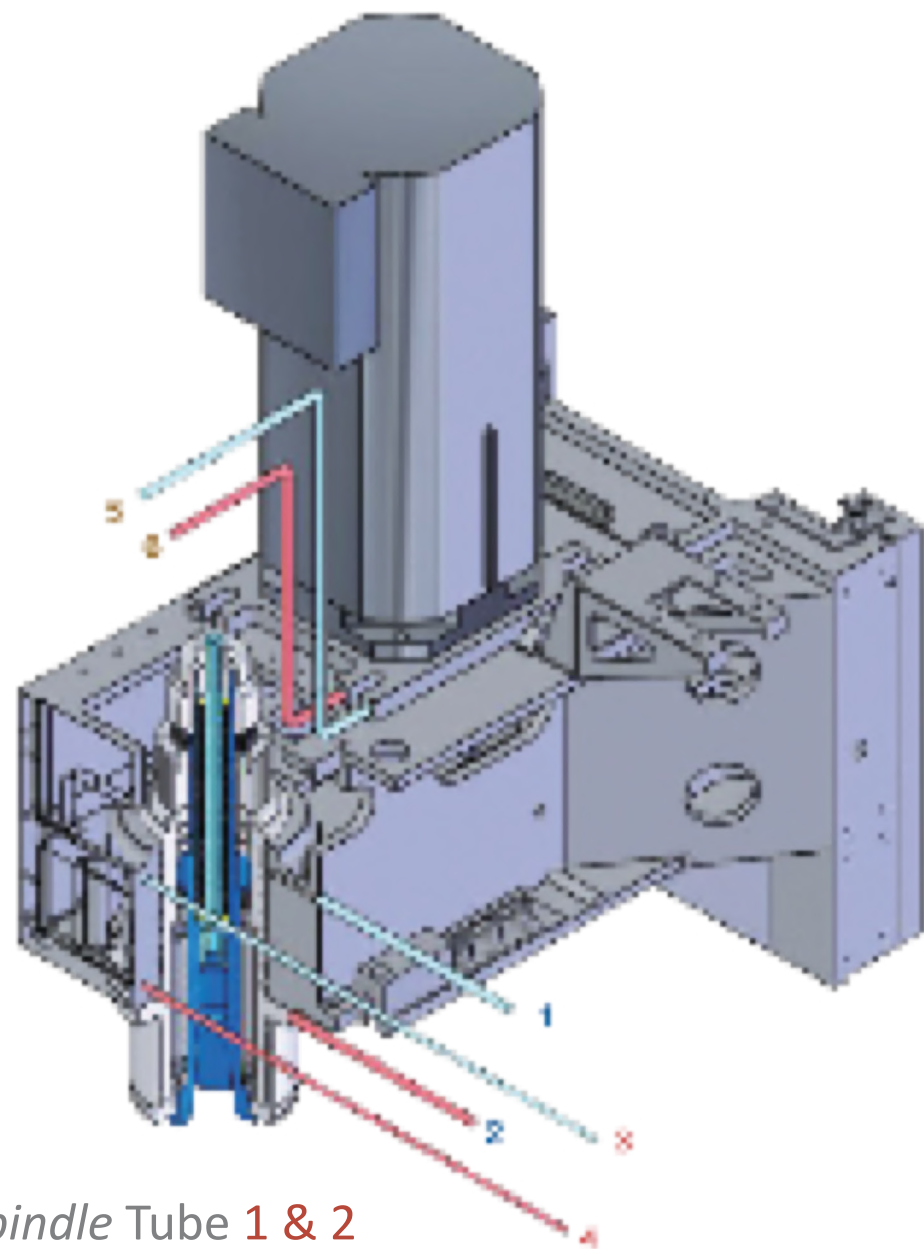
Spindle Head Thermal Stabilization

3 PATH LIQUID COOLED HEAD

To minimizes thermal distortion of headstock casting coolant is supplied through the spindle

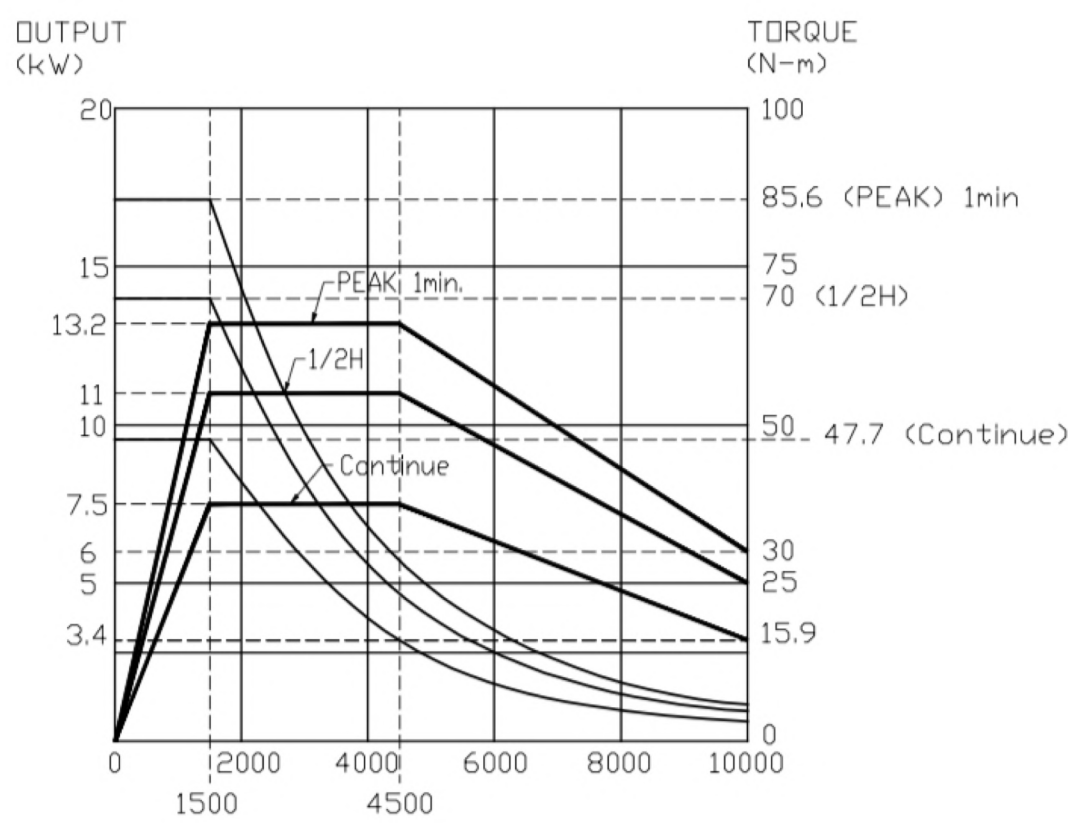
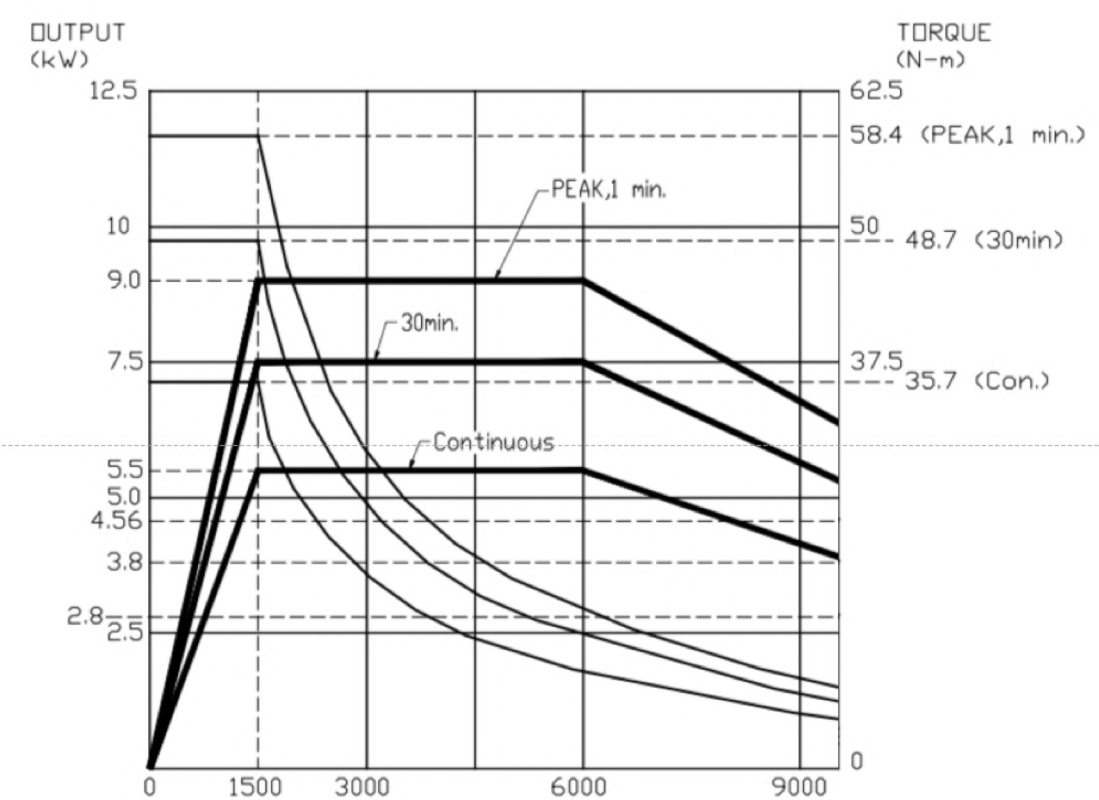
During long duty cycles motor and spindle generate a lot of heat, this 3 Path Cooling system allows you to push the machine to the limits for longer duration of time

Motor is provided with Heat Isolation plate to assure long life of the spindle motor



**PATH 1** to Cool Spindle Tube 1 & 2  
**PATH 2** to Cool Head Casting Tube 3 & 4  
**PATH 3** to Isolate Motor Heat Tube 5 & 6

Spindle Continuous Torque and 30minutes rating is more important than 200% Overload Ratings

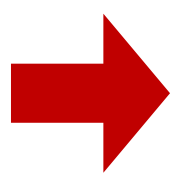


Protection from Impact on Spindle

- Casting Deformities
- Higher raw material stock than programmed
- Large Cutter Contact
- Large Cut during Engagement
- Big Cutter with damaged insert



Belt Drive prevents and major damage from happening by simply breaking



OVERLOAD PROTECTION