

# INNOVATION & VALUE CREATION



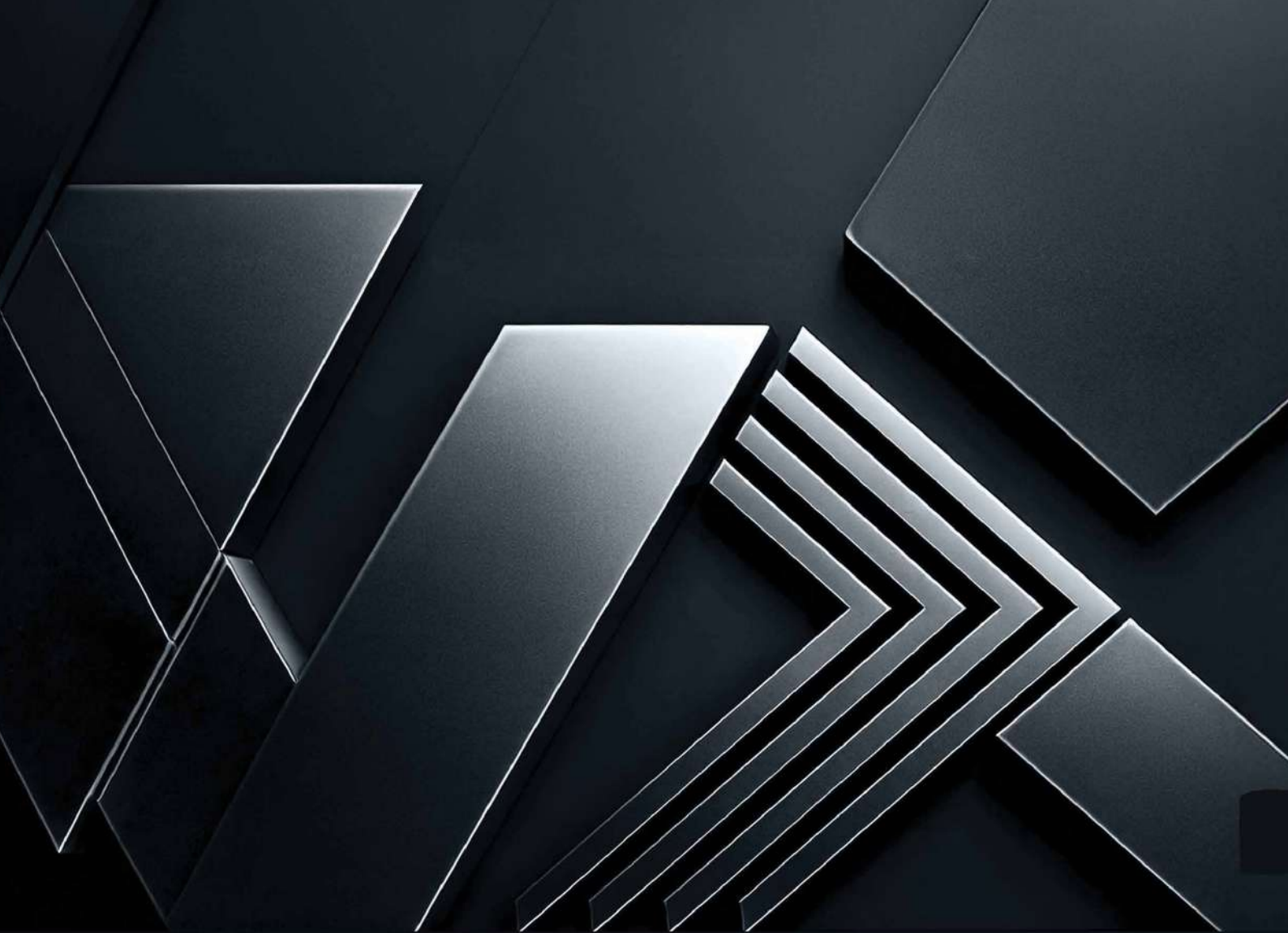
# 2025

New Launches

TURNING - MILLING - TURNMILL

CNC

MACHINES



In today's dynamic market, achieving success hinges on adopting technology that not only delivers top performance but also adds exceptional value to your operations.

Imagine a production line where every machine operates at peak efficiency while continuously learning and improving. That's the transformative experience our machines bring. By integrating our cutting-edge technology into your workflow, you'll experience improvements in precision, performance and productivity over time, the cumulative advancements our machines deliver will amplify these benefits, giving your business a competitive edge, driving long-term success, and ensuring continuous progress.

Choosing our machines is more than just an upgrade; it's an investment for the future where technology elevate your business with innovation that delivers extraordinary value.

# New Launches

## Turning

**LL20T L5 S** - The Next Generation Horizontal Turning Center

**LTV 40 Plus** - Heavy Duty Vertical Turning Center

## Milling

**JD2 L** - High Speed Compact Vertical Machining Center

**JG50 R** - Moving Column VMC with Rotary Pallet Changer

**JV 84** - High Productive Vertical Machining Center

**JV 150** - Heavy Duty Vertical Machining Center

**JU 40** - High Precision 5 Axis Vertical Machining Center

**JHF 400** - High Speed Horizontal Machining center

**JH 550** - Heavy Duty Horizontal Machining center

## Turnmill

**STurn 2M** - The Next Generation Horizontal Turnmill Center

**LR30MY L17** - Horizontal Turnmill Center with Y Axis

**LR40TM L25** - Heavy Duty Horizontal Turnmill Center

# LL20T L5 S

## The Next Generation Horizontal Turning Center



- ✓ Significant advantage in maximum turning diameter, allowing for the machining of larger workpieces and expanding the range of applications.
- ✓ Faster rapid traverse, providing quicker movements during machining operations and reducing cycle times.
- ✓ The 12-station tool turret increases flexibility for multi-operation machining.
- ✓ Greater flexibility in X/Z-axis travel, offering improved versatility and the ability to handle a wider variety of machining operations.



General Engineering



Automobile



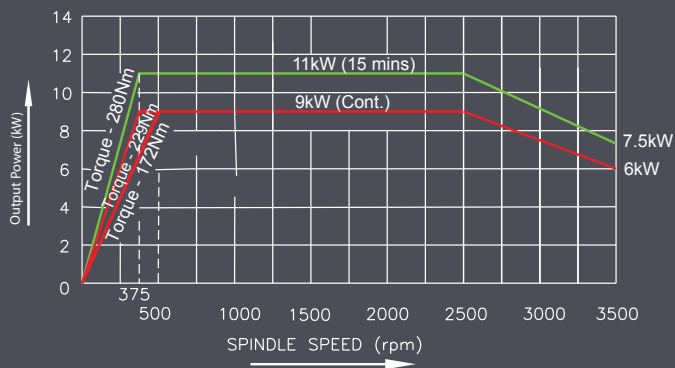
Pump & Valve



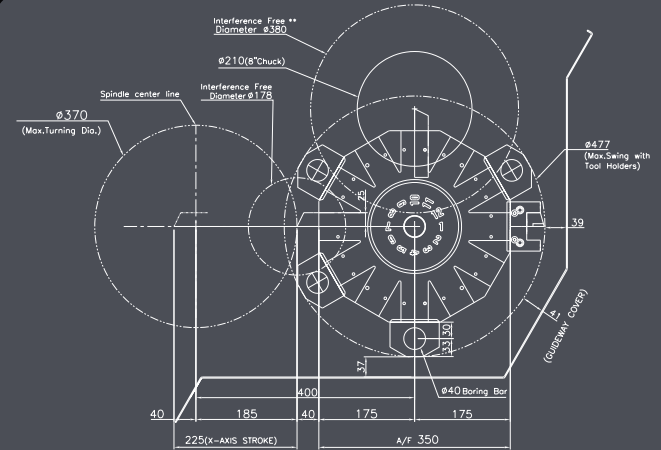
Oil & Gas

TITLE	DESCRIPTION	UNIT	LL20T L5 S
Capacity	Max. Swing over bed	mm	510
	Turning length (max)	mm	500
	Max. Turning Diameter	mm	370
	Chuck Size	mm	210
Spindle	Spindle nose	-	A2-6
	Hole through spindle	mm	61
	Spindle speed (max)	rpm	2500
	Motor power (Cont./15 min)	kW	11/9
Feed System	Cross travel X-axis	mm	225
	Longitudinal travel Z-axis	mm	560
	Rapid traverse rate X/Z axes	m/min	30/36
Turret	Turret Type	-	Servo
	No. of stations	nos.	12
	Tool shank size	mm	25 x 25
	Max. Boring bar dia.	mm	40
	Turret indexing	-	Bi-directional
	Indexing Time (per station)	Sec.	0.55
Tailstock	Quill Diameter	mm	75
	Quill Stroke	mm	100
	Quill Taper	-	MT-4
General	Floor Space	m <sup>2</sup>	4.3
CNC System	Controller	-	Fanuc

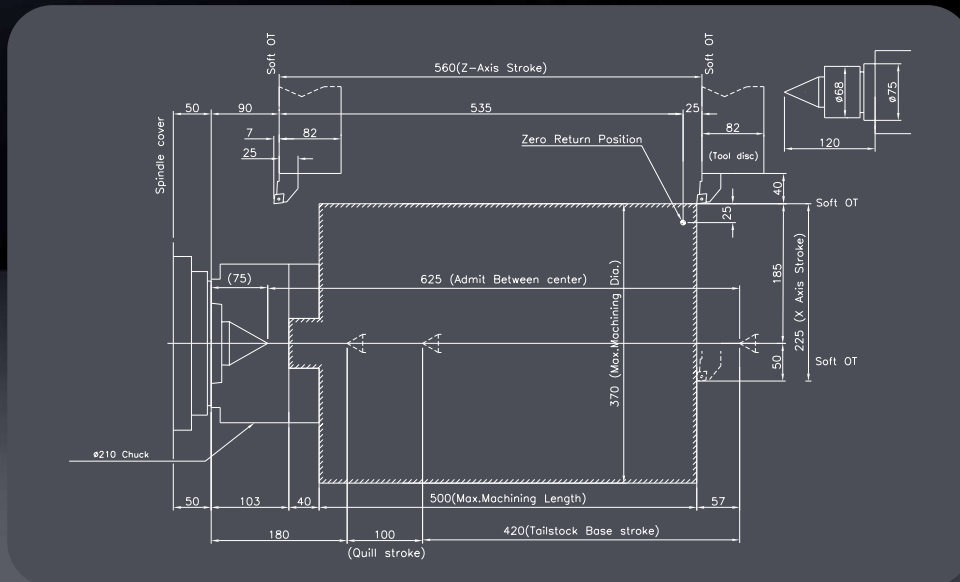
## Speed Power Curve



## Turret Interference



## Moving Range



## Machining Solution



Component Name: Connector  
 Material: Stainless Steel  
 Segment: Automobile

## Machining Capability

C45 Steel

TURNING TEST		
Parameter	Unit	LL20T L5 S
Major Diameter	mm	72
Minor Diameter	mm	60
Depth of Cut	mm	6
Spindle Speed	rpm	575
Feed	mm/rev	0.3
MRR	cm <sup>3</sup> /min	195

O.D THREADING TEST		
Parameter	Unit	LL20T L5 S
Thread	mm	M42 X 3
Spindle Speed	rpm	375
Feed	mm/rev	3





DRILLING TEST		
Parameter	Unit	LL20T L5 S
Drill Diameter	mm	48
Spindle Speed	rpm	796
Feed	mm/rev	0.1

# LTV 40 Plus

## Heavy Duty Vertical Turning Center



TURNING

-  820mm Z-axis travel for efficiently machining longer components, enhancing the machine's capability to handle a diverse range of work-pieces.
-  640mm turning diameter allows for a wide range of applications, making the machine versatile and suitable for various machining tasks.
-  12-station tool turret increases flexibility for multi-operation machining, enabling quick tool changes and reducing downtime, thus improving overall efficiency.
-  Designed for continuous, high-performance machining, ensuring reliable operations even under heavy workloads.



Automobile



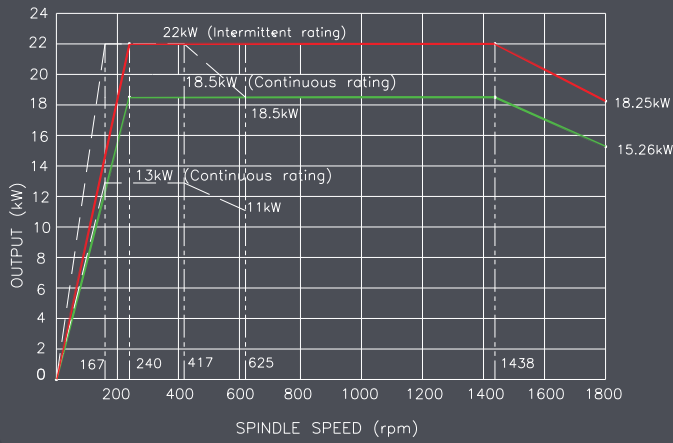
General Engineering



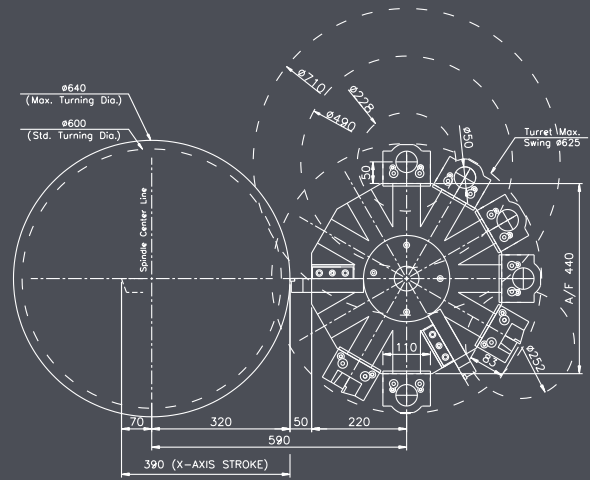
Pump & Valve

TITLE	DESCRIPTION	UNIT	LTV 40 Plus
Capacity	Max. Swing over bed	mm	800
	Turning length (max)	mm	750
	Max. Turning Diameter	mm	640
	Chuck Size	mm	530
Spindle	Spindle nose	-	A2-11
	Hole through spindle	mm	100
	Spindle speed (max)	rpm	1800
	Motor power (Cont./30 min)	kW	18.5/22
Feed System	Cross travel X-axis	mm	390
	Longitudinal travel Z-axis	mm	820
	Rapid traverse rate X/Z axes	m/min	24/24
	Guideways	-	LM Roller
Turret	No. of stations	nos.	12
	Tool shank size	mm	32 x 32
	Max. Boring bar dia.	mm	50
	Turret indexing	-	Bi-directional
	Indexing Time (per station)	Sec.	1.5
General	Floor Space	m <sup>2</sup>	6.56
CNC System	Controller	-	Fanuc

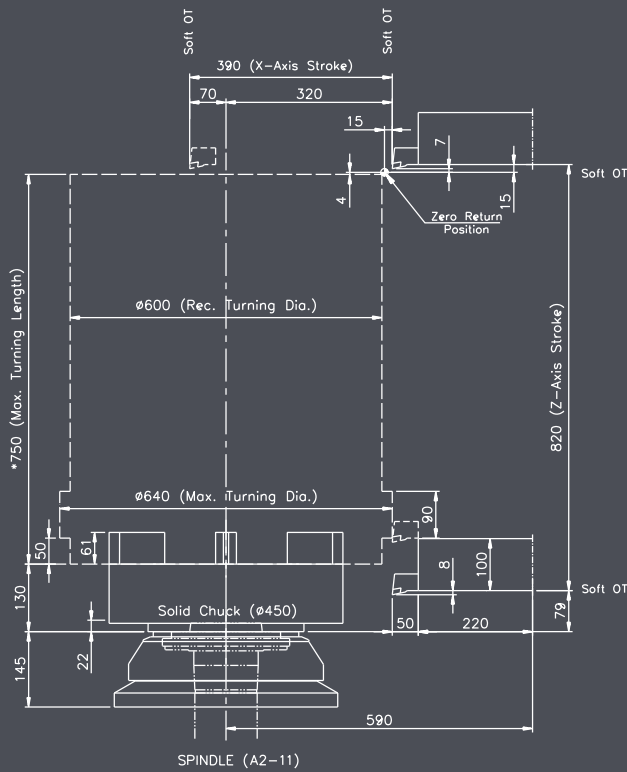
## Speed Power Curve



## Turret Interference



## Moving Range



## Machining Solution



Component Name: Brake Drum  
 Material: Cast Iron  
 Segment: Automobile

## Machining Capability

C45 Steel

### TURNING TEST

Parameter	Unit	LTV 40 Plus
Component Diameter	mm	295
Turning Diameter	mm	270
Depth of Cut	mm	12.5
Spindle Speed	rpm	300
Feed	mm/rev	0.25
MRR	cm <sup>3</sup> /min	780

### O.D THREADING TEST

Parameter	Unit	LTV 40 Plus
Thread	mm	M200 X 4
Spindle Speed	rpm	250
Feed	mm/rev	4

### DRILLING TEST

Parameter	Unit	LTV 40 Plus	
		Min	Max
Drill Diameter	mm	5	74
Spindle Speed	rpm	2000	860
Feed	mm/rev	0.08	0.15
Depth of Cut	mm	20	60



# JD2 L

## High Speed Compact Vertical Machining Center



MILLING

- ✔ Direct coupled spindle with 12000 rpm for high-speed machining applications.
- ✔ High-speed pocket tilting ATC ensures quick and precise tool changes, minimizing cycle times and enhancing productivity in machining operations.
- ✔ Reduces non-cutting time during operations, increasing overall efficiency and throughput.
- ✔ Rigid structure with a compact footprint ensures stability and space-saving.
- ✔ BT 30 / BBT 30 spindle configuration available



Automobile



Pump & Valve



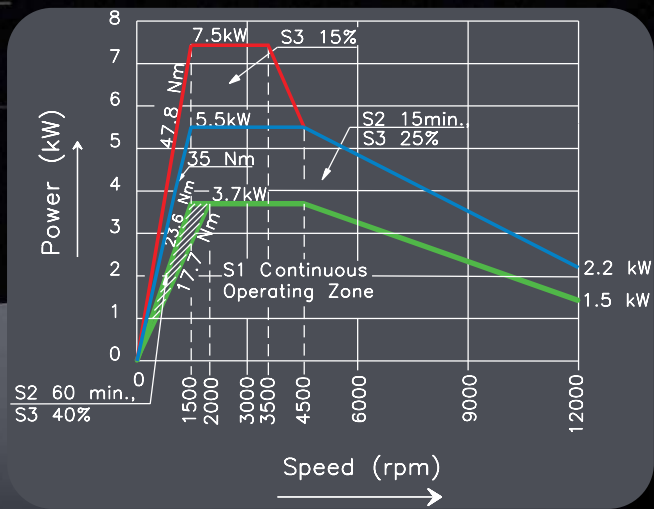
General Engineering



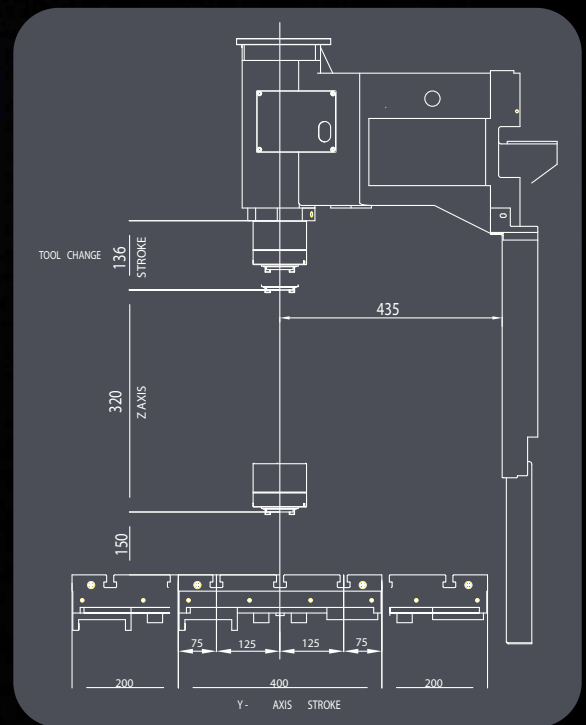
Electronics

TITLE	DESCRIPTION	UNIT	JD2 L
Travel	X Axis	mm	700
	Y Axis	mm	400
	Z Axis	mm	320
Table	Table Size	mm	850 x 400
	Max. Weight on Table	kg	300
Spindle	Max. Spindle Speed	Rpm	12000
	Spindle Bore Taper	-	BT 30
	Motor Power (Cont. / S2 / S3)	kW	3.7/5.5/7.5
	Max. Spindle Torque	Nm	17.7/23.6/35/47.8
Automatic Tool Changer	Type	-	Pocket Tilting
	No. of Tools	nos.	21
	Max. Tool Length	mm	200
	Tool Change Time	Sec	1.7
Feed System	Rapid Traverse Rate (X/Y/Z)	m/min	48/48/48
	Guideways	-	LM Guides
General	Floor Space	m <sup>2</sup>	6
CNC System	Controller	-	Fanuc

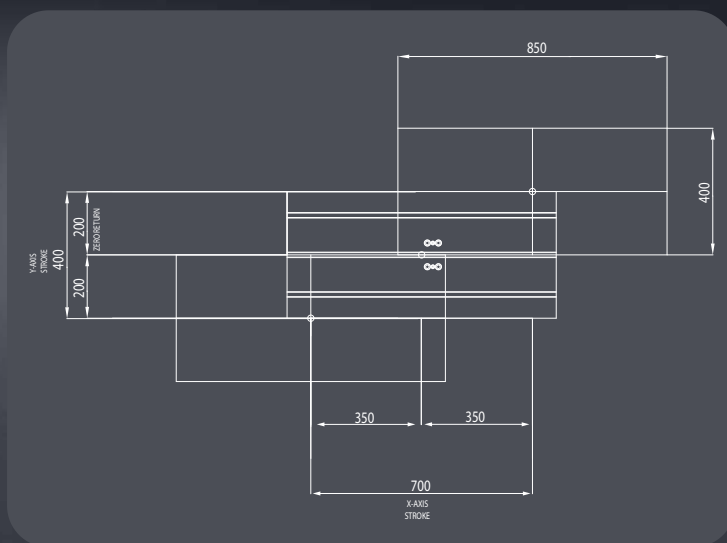
## Speed Power Curve



## Moving Range



## Moving Range



## Machining Solution



Component Name: Valve Block  
Material: Aluminium  
Segment: Automobile

## Machining Capability

C45 Steel

FACE MILLING			TAPPING				DRILLING			
Parameter	Unit	JD2 L	Parameter	Unit	JD2 L		Parameter	Unit	JD2 L	
Cutter Size	mm	63 x 5z			Min	Max			Min	Max
Spindle speed	rpm	1500	Tap Size	mm	M1.2 x 0.25	M16 x 2	Drill Size	mm	0.9	25 x 2z
Feed	mm/mm	1000	Spindle speed	rpm	1100	200	Spindle speed	rpm	10000	1500
Width of Cut	mm	48	Feed	mm/mm	275	400	Feed	mm/mm	100	180
Depth of Cut	mm	2	Depth of Cut	mm	4	30	Depth of Cut	mm	5	40
Capacity	cc/min	96								

# JG50 R

## Moving Column VMC with Rotary Pallet Changer



MILLING

- ✓ Gantry structure for higher rigidity
- ✓ Rotary pallet changer for high productivity
- ✓ 12000 rpm Direct Couple HSK A50 Spindle
- ✓ Higher axes acceleration & deceleration (1G)
- ✓ Compact footprint with rigid structure
- ✓ Faster ATC - Tool to Tool change time 1 sec
- ✓ Versatile table configuration (4 & 5 axis)



Die & Mould



Automobile



Medical



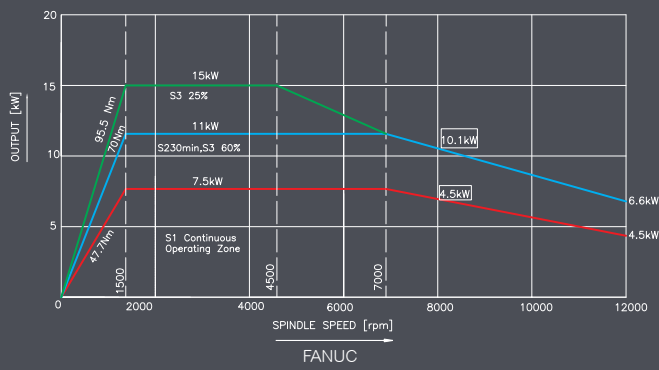
Electronics



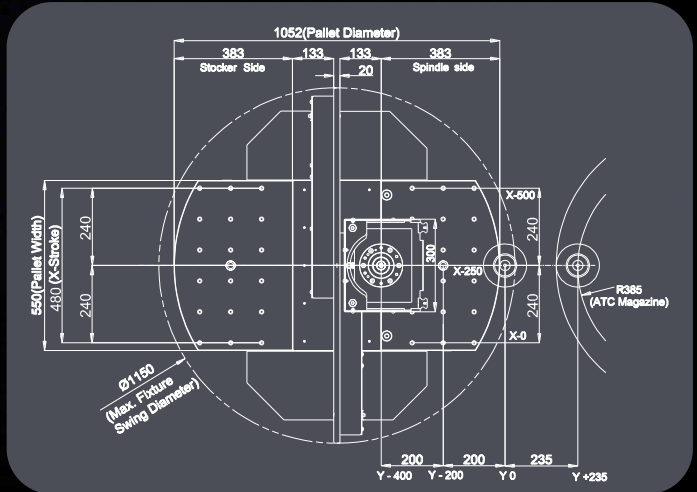
Aerospace

TITLE	DESCRIPTION	UNIT	JG50 R
Travel	X Axis	mm	480
	Y Axis	mm	400
	Z Axis	mm	400
Automatic Pallet Changer	Pallet Size	mm	550 x 380
	Max. Weight on Pallet	kg	300
	Pallet Indexing Time	Sec	8
Spindle	Max. Spindle Speed	Rpm	12000
	Spindle Bore Taper	-	HSK A50
	Motor Power (S1 / S2-30min/ S3-25%)	kW	7.5/11/15
	Max. Spindle Torque (S1 / S2-30min/S3-25%)	Nm	47.7/70/95.5
Automatic Tool Changer	No. of Tools	nos.	26
	Max. Tool Length	mm	320
	Tool Change Time	Sec	1
Feed System	Rapid Traverse Rate (X/Y/Z)	m/min	48/48/48
	Guideways	-	LM Guides
General	Floor Space	m <sup>2</sup>	6.7
CNC System	Controller	-	Fanuc

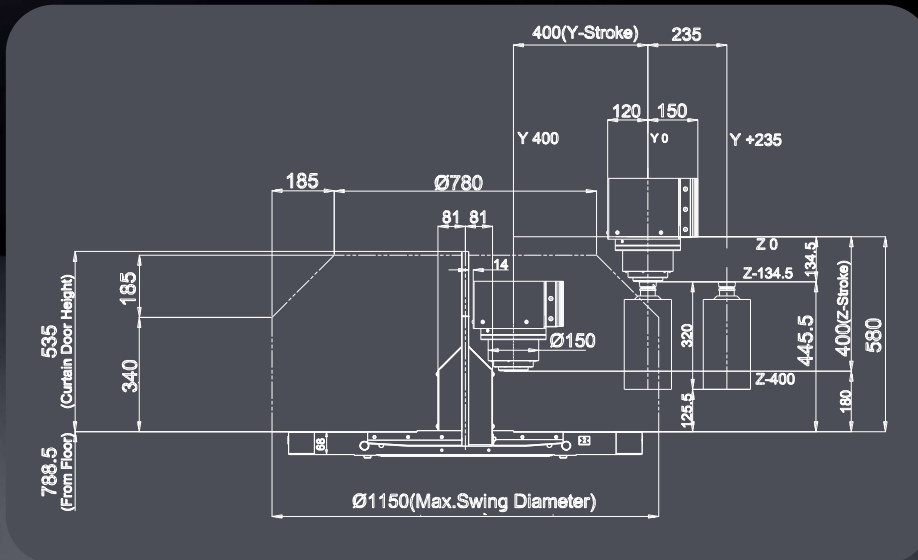
## Speed Power Curve



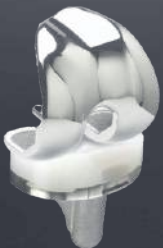
## Moving Range - Top View



## Moving Range - Side View



## Machining Solution



Component Name: Knee Joint  
Material: C45  
Segment: Medical

## Machining Capability

C45 Steel

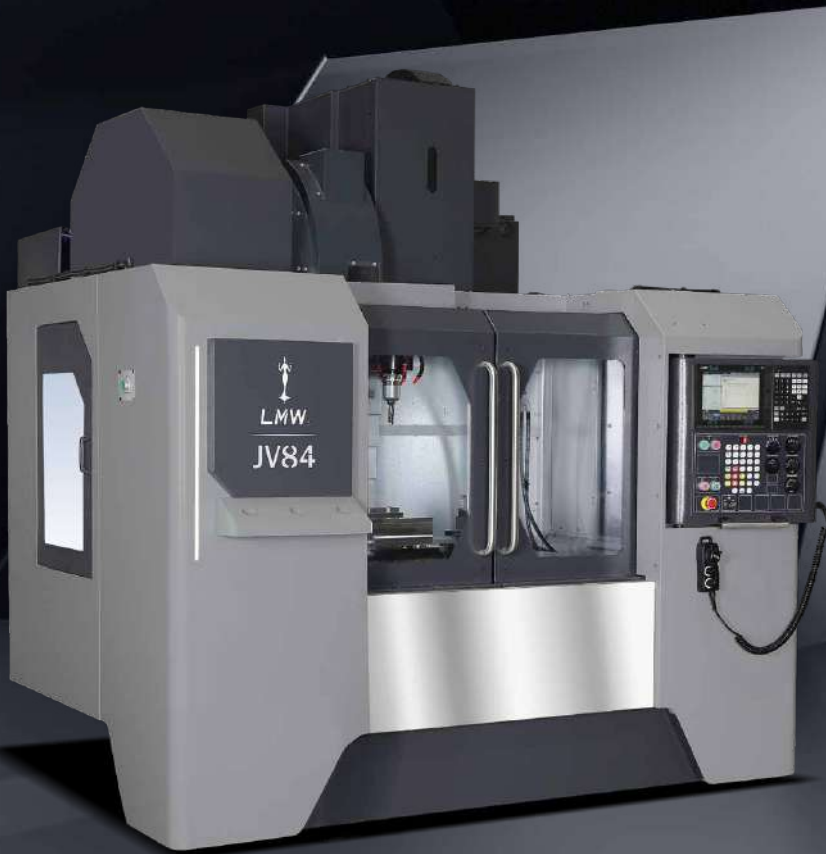
FACE MILLING		
Parameter	Unit	JG50 R
Cutter Size	mm	63 X 5z
Spindle speed	rpm	1500
Feed	mm/mm	1125
Width of Cut	mm	48
Depth of Cut	mm	3
Capacity	cc/min	162

DRILLING		
Parameter	Unit	JG50 R
Drill Size	mm	25 x 2z
Spindle speed	rpm	2000
Feed	mm/mm	200
Depth of Cut	mm	30

TAPPING			
Parameter	Unit	JG50 R	
		Min	Max
Tap Size	mm	M2 x 0.4	M20 x 2.5
Spindle speed	rpm	1600	240
Feed	mm/mm	640	600
Depth of Cut	mm	5	30

# JV 84

## High Productive Vertical Machining Center



MILLING

- ✓ Rigid structure with compact footprint ensures stability and precision while saving space.
- ✓ Higher Y and Z-axis travel allow for machining a broader range of components, expanding operational capabilities.
- ✓ Faster Rapid traverse rate and additional tools reduce cycle times and minimize downtime.
- ✓ Belt-driven spindle up to 6000 rpm provides reliable and efficient performance for various machining tasks.



General Engineering



Automobile



Oil & Gas



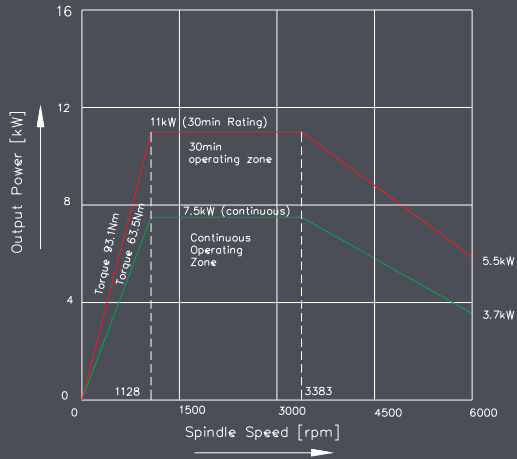
Pump & Valve



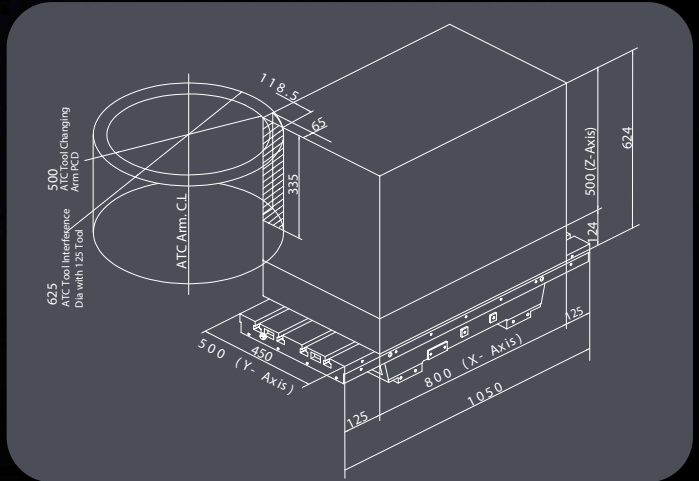
Agri & Earth Movers

TITLE	DESCRIPTION	UNIT	JV 84
Travel	X Axis	mm	800
	Y Axis	mm	500
	Z Axis	mm	500
Table	Table Size	mm	1050 x 450
	Max. Weight on Table	kg	500
Spindle	Max. Spindle Speed	Rpm	6000
	Spindle Bore Taper	-	BT 40
	Motor Power (Cont. / 30 min)	kW	7.5/11
	Max. Spindle Torque (Cont. / 30 min)	Nm	63/93
Automatic Tool Changer	No. of Tools	nos.	24
	Max. Tool Length	mm	250
	Tool Change Time	Sec	2.2
Feed System	Rapid Traverse Rate (X/Y/Z)	m/min	36/36/36
	Guideways	-	LM Guides
General	Floor Space	m <sup>2</sup>	5.3
CNC System	Controller	-	Mitsubishi

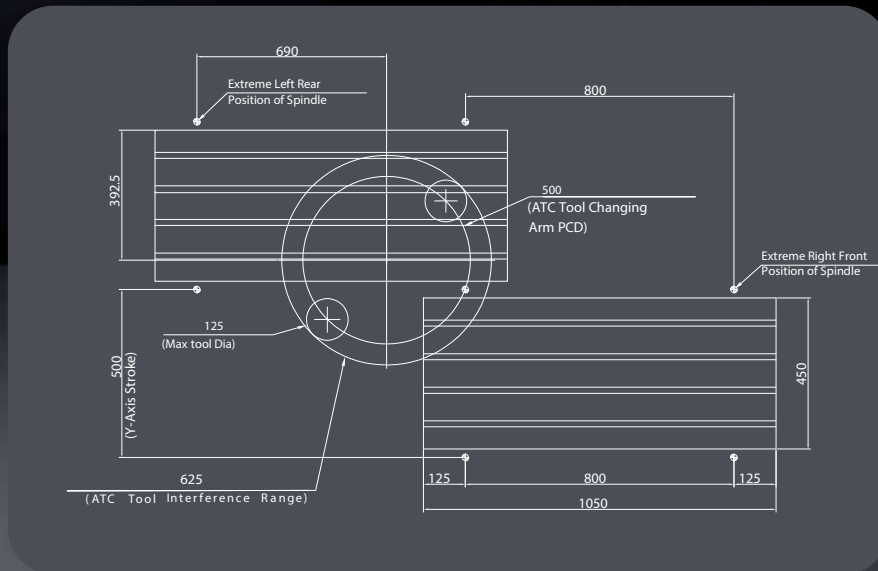
## Speed Power Curve



## Interference Diagram



## Moving Range



## Machining Solution



## Machining Capability

C45 Steel

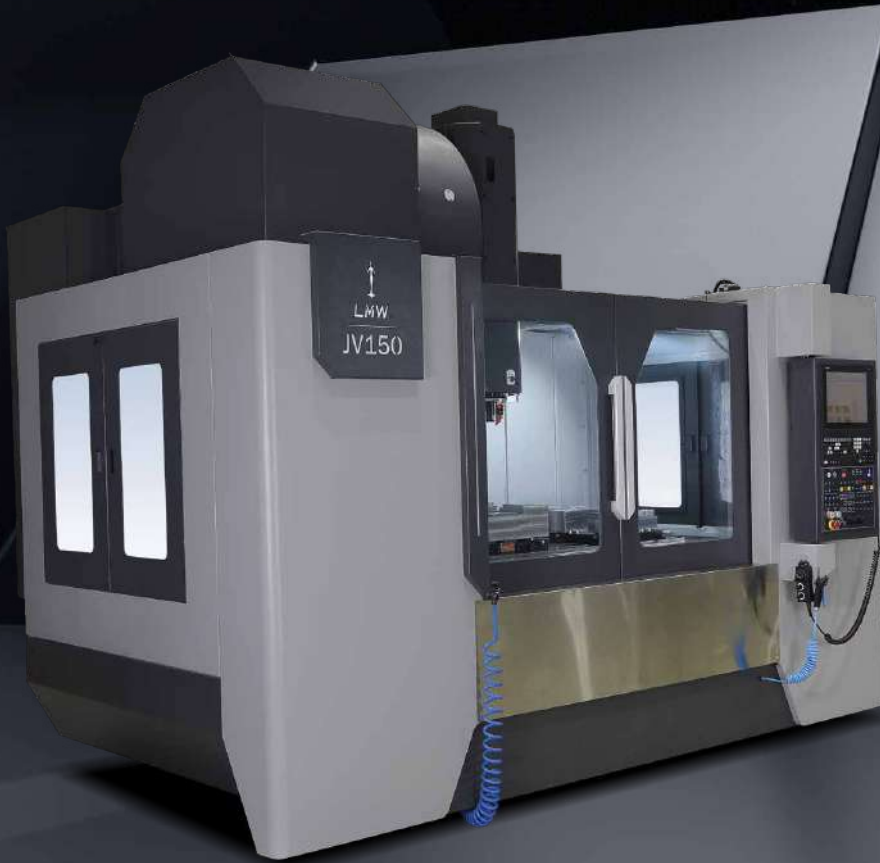
FACE MILLING		
Parameter	Unit	JV 84
Cutter Size	mm	63 x 5z
Spindle speed	rpm	1500
Feed	mm/mm	1275
Width of Cut	mm	50
Depth of Cut	mm	4
Capacity	cc/min	255

DRILLING		
Parameter	Unit	JV 84
Drill Size	mm	40 x 2z
Spindle speed	rpm	1200
Feed	mm/mm	180
Depth of Cut	mm	50

TAPPING			
Parameter	Unit	JV 84	
		Min	Max
Tap Size	mm	M3 x 0.5	M24 x 3.0
Spindle speed	rpm	750	200
Feed	mm/mm	375	600
Depth of Cut	mm	10	35

# JV 150

## Heavy Duty Vertical Machining Center



MILLING

- ✓ JV150 designed with a rigid and thermally stable structure, ensuring superior performance even during demanding machining operations.
- ✓ Provides better performance for cutting harder materials and heavy-duty machining.
- ✓ Equipped with high Torque BT50 spindle capable of delivering exceptional cutting performance.
- ✓ Significantly reduces idle time during tool positioning and enhances throughput
- ✓ Customizable configurations to meet specific machining requirements.



Die & Mould



Automobile



Railway



Pump & Valve



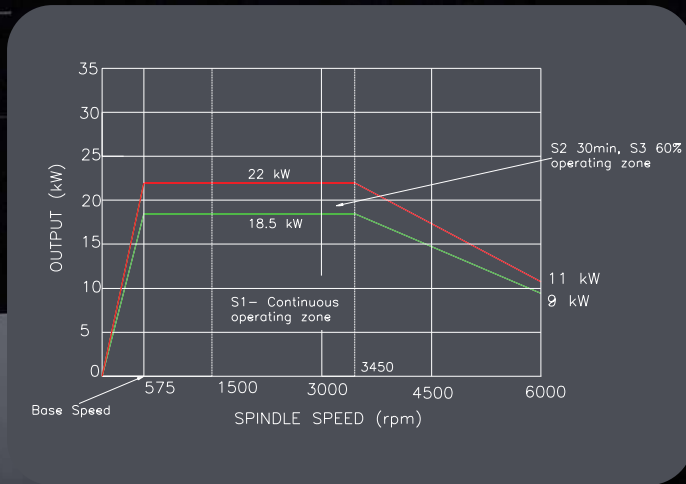
Agri & Earth Movers



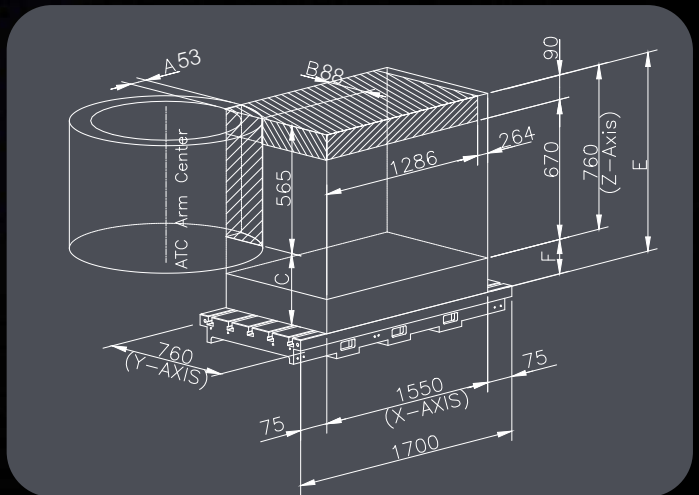
General Engineering

TITLE	DESCRIPTION	UNIT	JV 150
Travel	X Axis	mm	1550
	Y Axis	mm	760
	Z Axis	mm	760
Table	Table Size	mm	1700 x 700
	Max. Weight on Table	kg	1300
Spindle	Max. Spindle Speed	Rpm	6000
	Spindle Bore Taper	-	BT 50
	Motor Power (Cont. / Int.)	kW	18.5/22
	Max. Spindle Torque (Cont. / Int.)	Nm	307/525
Automatic Tool Changer	No. of Tools	nos.	24
	Max. Tool Length	mm	400
	Tool Change Time	Sec	4.4
Feed System	Rapid Traverse Rate (X/Y/Z)	m/min	24/30/24
	Guideways	-	LM Roller
General	Floor Space	m <sup>2</sup>	12.8
CNC System	Controller	-	Mitsubishi

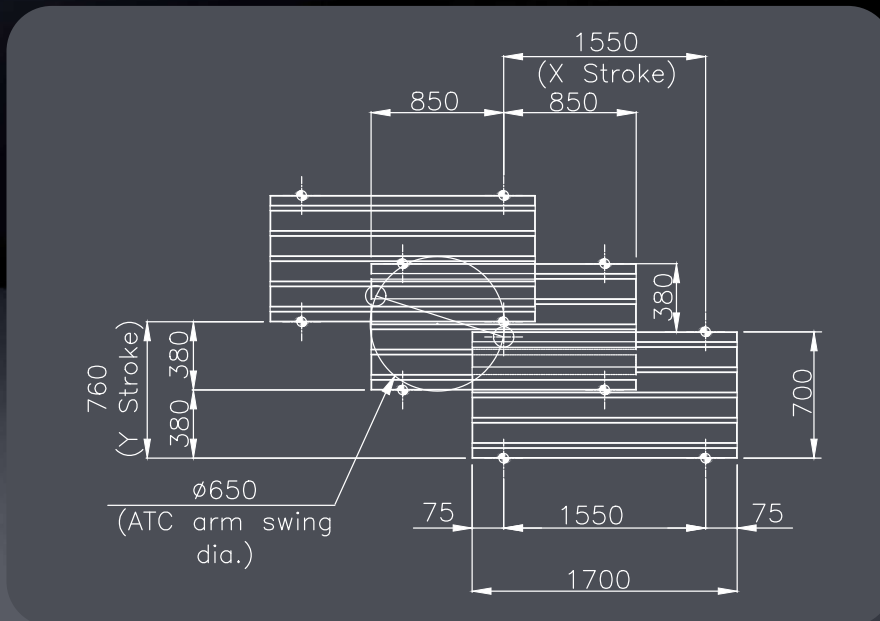
## Speed Power Curve



## Interference Diagram



## Moving Range



## Machining Solution



## Machining Capability

C45 Steel

FACE MILLING		
Parameter	Unit	JV 150
Cutter Size	mm	125 x 10z
Spindle speed	rpm	637
Feed	mm/mm	1274
Width of Cut	mm	100
Depth of Cut	mm	6
Capacity	cc/min	764.4


DRILLING		
Parameter	Unit	JV 150
Drill Size	mm	74 x 4z
Spindle speed	rpm	800
Feed	mm/mm	150
Depth of Cut	mm	80


TAPPING		
Parameter	Unit	JV 150
Tap Size	mm	M42 x 4.5
Spindle speed	rpm	200
Feed	mm/mm	900
Depth of Cut	mm	35


# JU 40


## High Precision 5 Axis Vertical Machining Center



- 

JU40 provide the flexibility to handle larger workpieces, enabling an increased loading capacity allows for managing heavier and taller parts with ease.
- 

Increased rapid traverse speeds reduce idle times, enabling quicker operations and improved throughput.
- 

A larger tool capacity ensures seamless operations during complex jobs, reducing downtime.
- 

A higher spindle speed delivers smoother finishes, faster cutting, and greater efficiency, minimizing rework and ensuring consistent quality.



General Engineering



Automobile



Energy



Defence



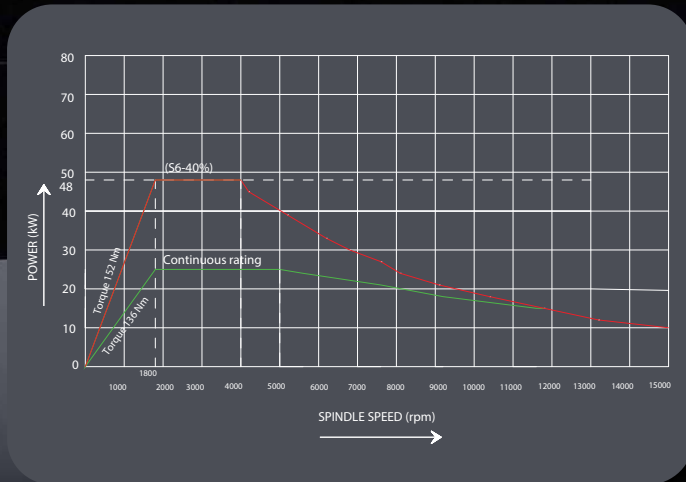
Aerospace



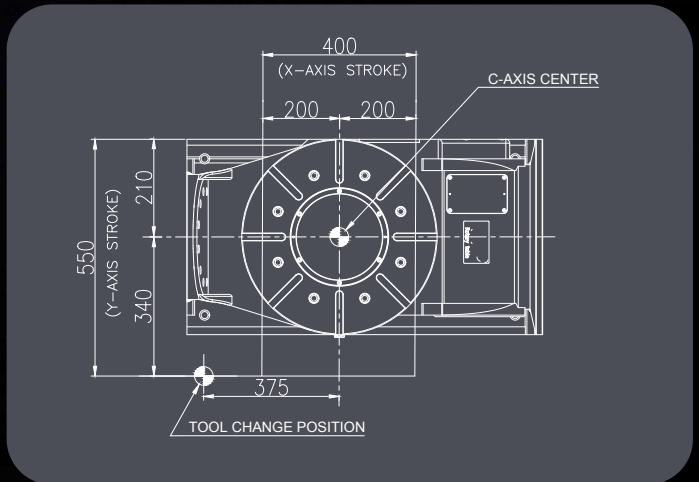
Medical

TITLE	DESCRIPTION	UNIT	JU 40
Travel	X Axis	mm	400
	Y Axis	mm	550
	Z Axis	mm	550
	Table Indexing Angle - A Axis	Deg	-120° / +30°
	Table Indexing Angle - C Axis	Deg	360°
Table	Table Size	mm	Ø 500
	Table loading capacity	Kgs	300
	Max. Work Piece Size (dxh)	mm	Ø 500 x 400
Spindle	Max. Spindle Speed	Rpm	10000(15000)
	Spindle Bore Taper	-	BBT 40
	Motor Power (S1 Cont. / S6 60% / S6 40%)	kW	22/26.4/33
	Max. Spindle Torque (S1 Cont. / S6 60% / S6 40%)	Nm	140/160/210
Automatic Tool Changer	No. of Tools	nos.	48
	Max. Tool Length	mm	300
Feed System	Rapid Traverse Rate (X/Y/Z)	m/min	48/48/48
	Guideways	-	LM Roller
General	Floor Space	m <sup>2</sup>	15.7
CNC System	Controller	-	Siemens

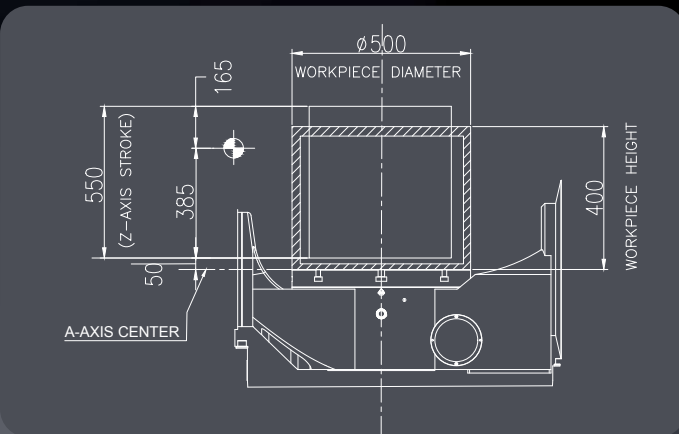
## Speed Power Curve



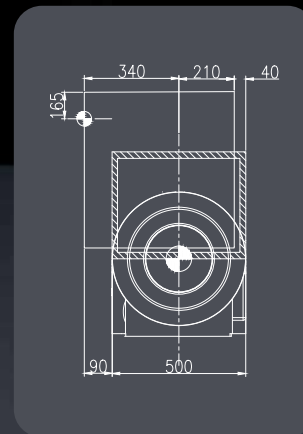
## Moving Range - Top View



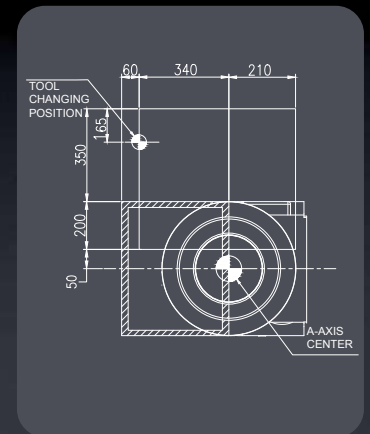
## Side View



## A Axis at 0°



## A Axis at 90°



## Machining Solution



Component Name: Blisk  
Material: C45  
Segment : Aerospace

## Machining Capability C45 Steel

FACE MILLING		
Parameter	Unit	JU 40
Cutter Size	mm	80 x 6z
Spindle speed	rpm	1000
Feed	mm/mm	1200
Width of Cut	mm	60
Depth of Cut	mm	4
Capacity	cc/min	288

DRILLING		
Parameter	Unit	JU 40
Drill Size	mm	50 x 2z
Spindle speed	rpm	1000
Feed	mm/mm	150
Depth of Cut	mm	50

TAPPING			
Parameter	Unit	JU 40	
		Min	Max
Tap Size	mm	M2 x 0.4	M27 x 3.0
Spindle speed	rpm	1200	200
Feed	mm/mm	480	600
Depth of Cut	mm	5	35

# JHF 400

## High Speed Horizontal Machining center



- ✓ Higher motor power enhances cutting ability for tougher materials and more demanding operations.
- ✓ Larger tool magazine reduces tool changes and allows more complex machining.
- ✓ Direct coupled BBT 40 spindle with 12000 Rpm
- ✓ Delivers higher material removal rates and optimized cycle times.



Pump & Valve



Automobile



Oil & Gas



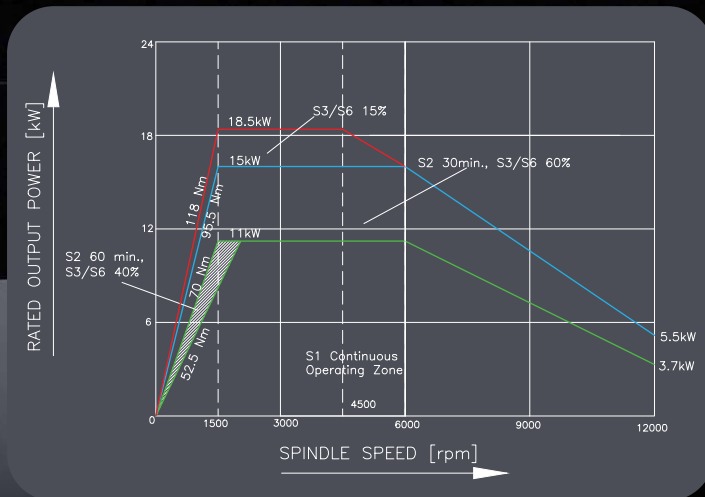
Agri & Earth Movers



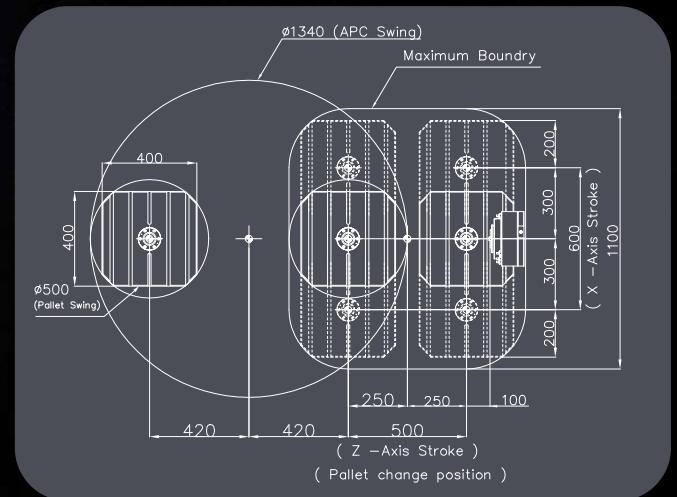
General Engineering

TITLE	DESCRIPTION	UNIT	JHF 400
Travel	X Axis	mm	600
	Y Axis	mm	500
	Z Axis	mm	500
Automatic Pallet Changer	Pallet Size	mm	400 x 400
	Max. Weight on Pallet	kg	400
	Pallet Indexing Time	Sec	10
Spindle	Max. Spindle Speed	Rpm	12000
	Spindle Bore Taper	-	BBT 40
	Motor Power (Cont. / Int.)	kW	15/18.5
	Max. Spindle Torque (Cont. / Int.)	Nm	95.8/118
Automatic Tool Changer	Type	-	Twin Arm
	No. of Tools	nos.	30
	Max. Tool Length	mm	300
	Tool Change Time	Sec	2.5
Feed System	Rapid Traverse Rate (X/Y/Z)	m/min	48/48/48
	Guideways	-	LM Roller
General	Floor Space	m <sup>2</sup>	12.5
CNC System	Controller	-	Fanuc

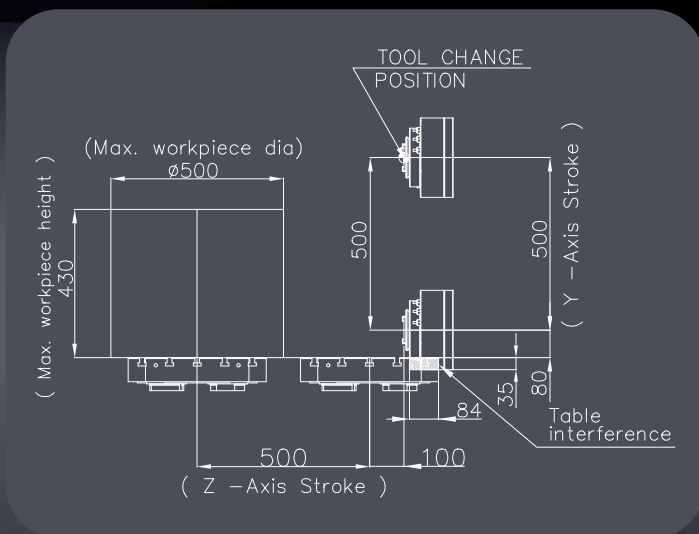
## Speed Power Curve



## Moving Range - Top View



## Moving Range - Side View



## Machining Solution



Component Name: Clutch Housing  
 Material: Aluminium  
 Segment: Automobile

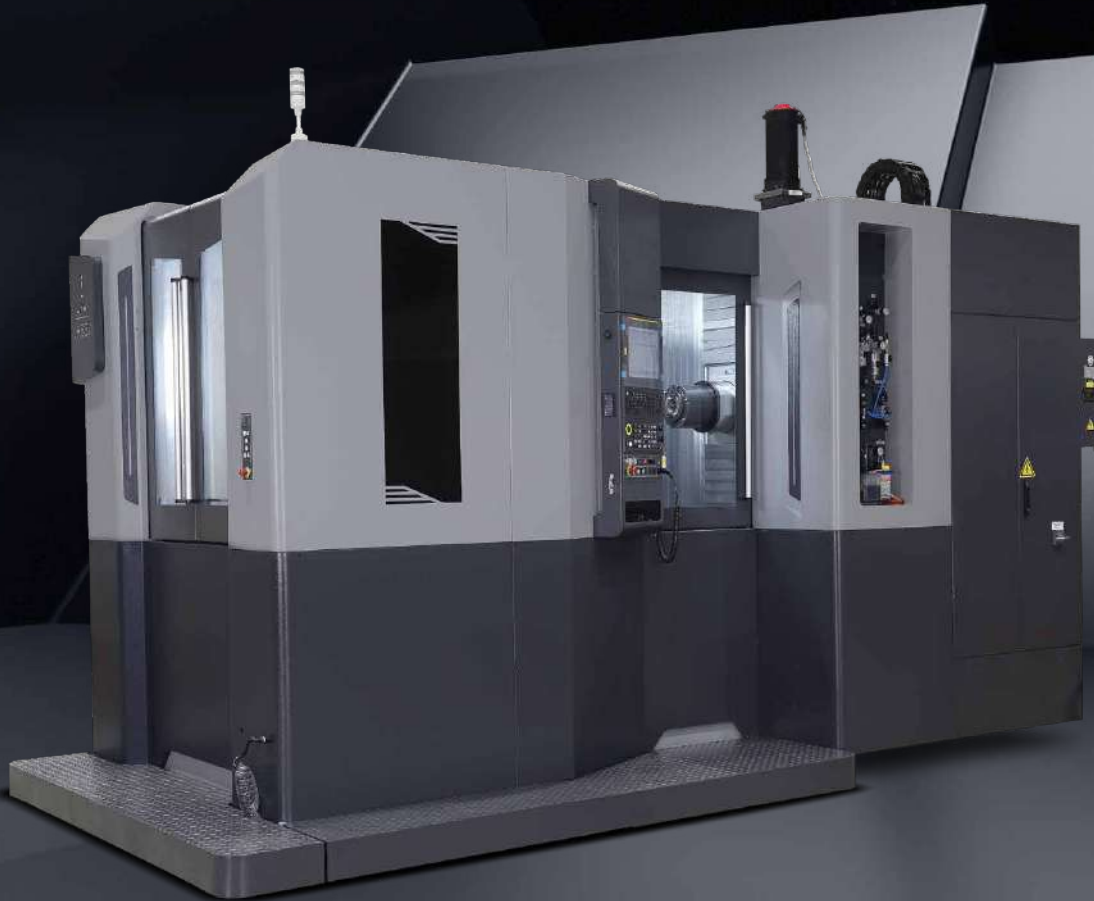
## Machining Capability

C45 Steel

FACE MILLING			DRILLING				TAPPING			
Parameter	Unit	JHF 400	Parameter	Unit	JHF 400		Parameter	Unit	JHF 400	
Cutter Size	mm	80 x 6z	Drill Size	mm	Min	Max	Tap Size	mm	Min	Max
Spindle speed	rpm	1500	Spindle speed	rpm	8000	1000	Spindle speed	rpm	1200	235
Feed	mm/mm	1400	Feed	mm/mm	100	100	Feed	mm/mm	240	705
Width of Cut	mm	60	Depth of Cut	mm	5	40	Depth of Cut	mm	4	35
Depth of Cut	mm	4								
Capacity	cc/min	336								

# JH 550

## Heavy Duty Horizontal Machining center



- ✓ JH550 is built for continuous operations with minimal downtime, ensuring consistent output and high reliability.
- ✓ It Features a BBT50 spindle for superior rigidity and precision, ideal for tough-to-machine materials.
- ✓ High-torque spindles deliver exceptional cutting performance, ensuring smooth and efficient machining operations.
- ✓ Larger component processing area accommodates a wide range of parts, ensuring flexibility in production.
- ✓ Minimizes thermal distortion, ensuring consistent accuracy and tool life.



Pump & Valve



Automobile



Oil & Gas



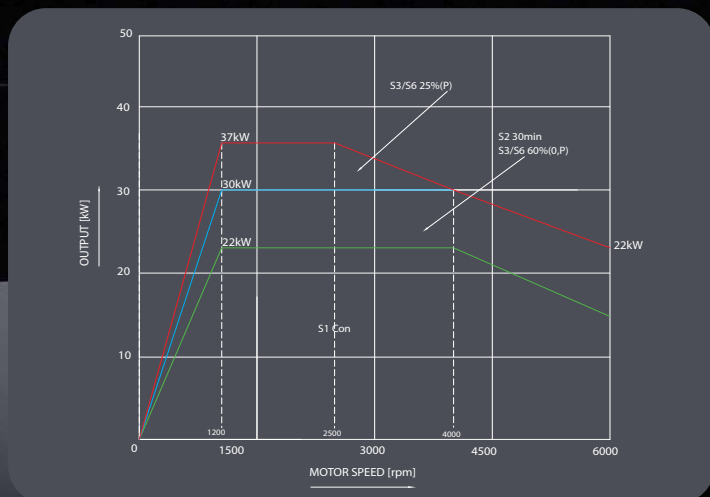
Agri & Earth Movers



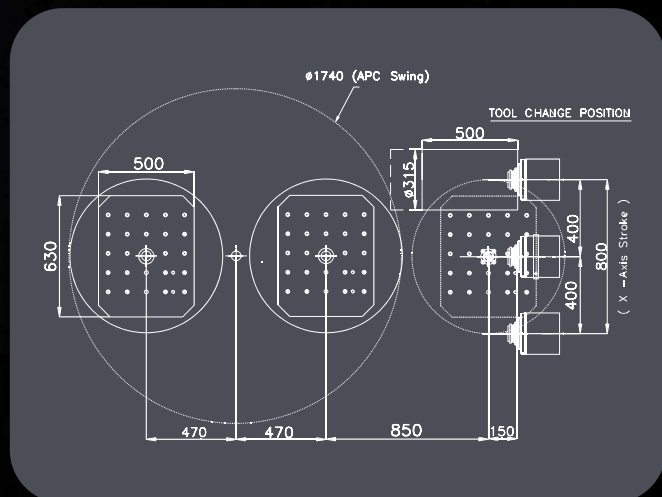
Defence

TITLE	DESCRIPTION	UNIT	JH 550
Travel	X Axis	mm	800
	Y Axis	mm	800
	Z Axis	mm	850
Automatic Pallet Changer	Pallet Size	mm	500 x 630
	Max. Weight on Pallet	kg	500
	Pallet Indexing Time	Sec	12
Spindle	Max. Spindle Speed	Rpm	6000
	Spindle Bore Taper	-	BBT 50
	Motor Power (S1 / S2 / S3)	kW	22/30/37
	Max. Spindle Torque (S1 / S2 / S3)	Nm	365/498/615
Automatic Tool Changer	No. of Tools	nos.	60
	Max. Tool Length	mm	500
	Tool Change Time	Sec	3.5
Feed System	Rapid Traverse Rate (X/Y/Z)	m/min	48/48/48
	Guideways	-	LM Roller
General	Floor Space	m <sup>2</sup>	20
CNC System	Controller	-	Fanuc

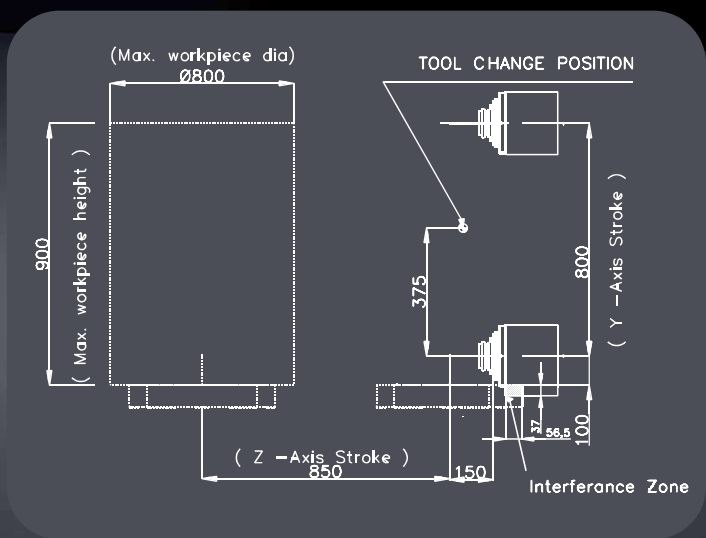
## Speed Power Curve



## Moving Range - Top View



## Moving Range - Side View



## Machining Solution



Component Name: Valve Body  
 Material: SG Cast Iron  
 Segment: Valve

## Machining Capability

C45 Steel

FACE MILLING		
Parameter	Unit	JH 550
Cutter Size	mm	125 x 10z
Spindle speed	rpm	637
Feed	mm/mm	1274
Width of Cut	mm	100
Depth of Cut	mm	5
Capacity	cc/min	637

DRILLING		
Parameter	Unit	JH 550
Drill Size	mm	60 x 2z
Spindle speed	rpm	800
Feed	mm/mm	150
Depth of Cut	mm	50

TAPPING		
Parameter	Unit	JH 550
Tap Size	mm	M42 x 4.5
Spindle speed	rpm	150
Feed	mm/mm	675
Depth of Cut	mm	40

# S Turn 2M

## The Next Generation Horizontal Turnmill Center



- ✓ Equipped with a BMT 45 turret and 12 tool stations, the S TURN 2M offers versatility for different machining tasks, reducing downtime for tool changes.
- ✓ Designed for continuous, high-performance machining, ensuring reliable operations even under heavy workloads.
- ✓ The 12-station live tool turret supports both turning and milling operations, making it suitable for a wide variety of machining applications.
- ✓ Delivers high precision and productivity, enabling manufacturers to maintain tight tolerances while maximizing output.



Pump & Valve



Automobile



Electronics



Aerospace



Energy



General Engineering

TITLE	DESCRIPTION	UNIT	S Turn 2M
Capacity	Max. Swing over bed	mm	510
	Turning length (max)	mm	400
	Max. Turning Diameter	mm	320
	Chuck Size	mm	200
Spindle	Spindle nose	–	A2-5
	Hole through spindle	mm	54
	Spindle speed (max)	rpm	4500
	Motor power (Cont./30 min)	kW	5.5/7.5
Feed System	Cross travel X-axis	mm	230
	Longitudinal travel Z-axis	mm	500
	Rapid traverse rate X/Z axes	m/min	30/36
Turret	No. of stations	nos.	12
	Tool shank size	mm	25 x 25
	Max. Boring bar dia.	mm	40
	Turret indexing	–	Bi-directional
	Indexing Time (per station)	Sec.	0.7
	Rotary Tool Speed	rpm	6000
	Rotary Tool Motor Power	kW	3.5
Tailstock	Quill Diameter	mm	65
	Quill Stroke	mm	80
	Quill Taper	–	MT-4
General	Floor Space	m <sup>2</sup>	4.2
CNC System	Controller	–	Mitsubishi



# LR30MY L17

## Horizontal Turnmill Center with Y Axis



- ✓ The Y Axis allows for complex machining operations, providing greater versatility and precision in handling intricate parts.
- ✓ Equipped with a BMT 65 turret, the machine offers high rigidity and precision, accommodating a variety of tools for diverse machining tasks, reducing downtime for tool changes.
- ✓ Faster rapid traverse speeds significantly reduce idle times, enabling quicker operations and improved throughput.
- ✓ Engineered to minimize vibration, the machine ensures smoother operations, enhancing the quality of the finished product and extending tool life.



Oil & Gas



Automobile



Defence



Aerospace



Energy



Agri & Earth Movers

TITLE	DESCRIPTION	UNIT	LR30MY L17
Capacity	Max. Swing over bed	mm	800
	Turning length (max)	mm	1700
	Max. Turning Diameter	mm	520
	Chuck Size	mm	533
Spindle	Spindle nose	–	A2-15
	Hole through spindle	mm	181
	Spindle speed (max)	rpm	1250
	Motor power (Cont./Int.)	kW	18.5/22
Feed System	Cross travel X-axis	mm	335
	Y Axis Travel	mm	±60
	Longitudinal travel Z-axis	mm	1860
	Rapid traverse rate X/Y/Z axes	m/min	24/8/10
Turret	No. of stations	nos.	12
	Tool shank size	mm	25 x 25
	Max. Boring bar dia.	mm	50
	Turret indexing	–	Bi-directional
	Indexing Time (per station)	Sec.	<1.0
	Rotary Tool Speed	rpm	6000
	Rotary Tool Motor Power	kW	5.2
Tailstock	Quill Diameter	mm	110
	Quill Stroke	mm	110
	Quill Taper	–	MT-5
General	Floor Space	m <sup>2</sup>	15
CNC System	Controller	–	Fanuc



# LR40TM L25

## Heavy Duty Horizontal Turnmill Center



- ✓ LR40TM L25 is equipped with a BMT 75 turret and 12 tool stations, offering high rigidity, precision, and flexibility for various machining tasks
- ✓ Designed to meet the rigorous demands of industries like oil & gas, railways, power & energy, and steel manufacturing.
- ✓ Milling capabilities expand its functionality, providing a one-stop solution for complex machining requirements.
- ✓ Hardened Box Guideways Provides superior stability and precision, ensuring consistent performance and durability.



Oil & Gas



Railway



Defence



Aerospace



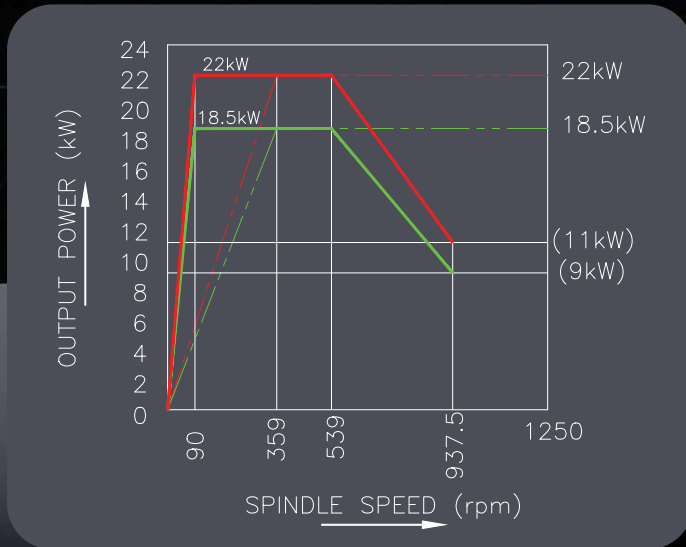
Energy



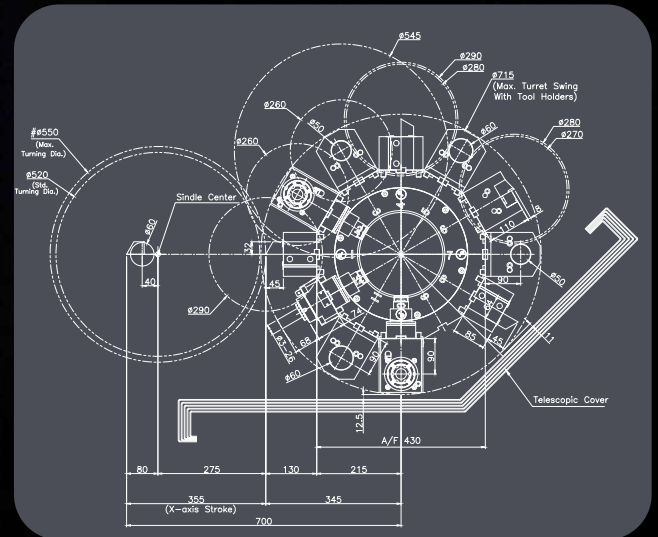
General Engineering

TITLE	DESCRIPTION	UNIT	LR40TM L25
Capacity	Max. Swing over bed	mm	745
	Turning length (max)	mm	2320
	Max. Turning Diameter	mm	550
	Chuck Size	mm	533
Spindle	Spindle nose	-	A2-15
	Hole through spindle	mm	181
	Spindle speed (max)	rpm	1250
	Motor power (Cont./30min)	kW	18.5/22
Feed System	Cross travel X-axis	mm	355
	Longitudinal travel Z-axis	mm	2490
	Rapid traverse rate X/Z axes	m/min	24/10
Turret	No. of stations	nos.	12
	Tool shank size	mm	32 x 32
	Max. Boring bar dia.	mm	60
	Turret indexing	-	Bi-directional
	Indexing Time (per station)	Sec.	<1.0
	Rotary Tool Speed	rpm	4000
Tailstock	Rotary Tool Motor Power	kW	6.4
	Quill Diameter	mm	120
	Quill Stroke	mm	120
	Quill Taper	-	MT-6
General	Floor Space	m <sup>2</sup>	15.7
CNC System	Controller	-	Fanuc

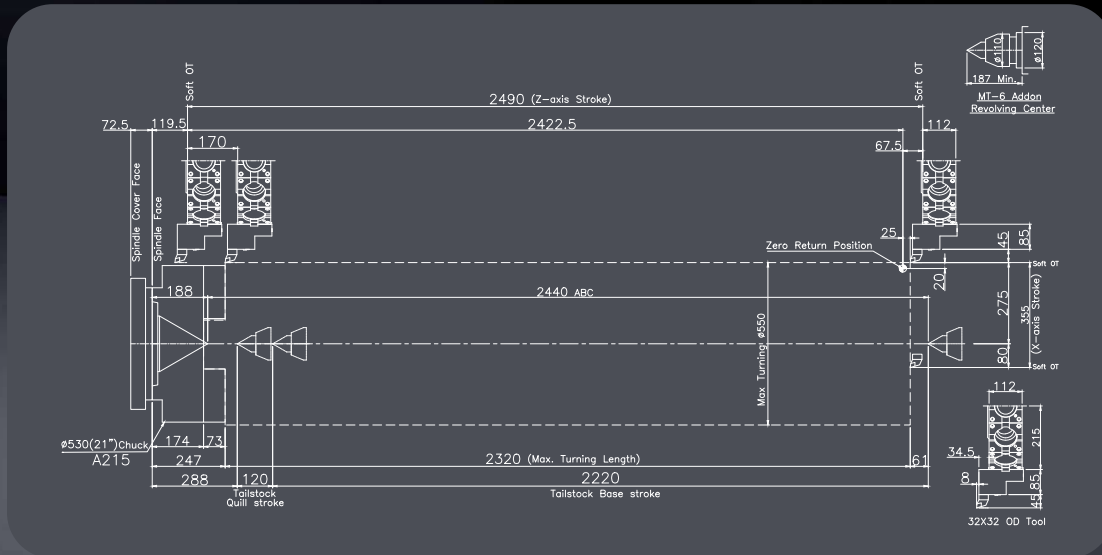
## Speed Power Curve - With Gear box



## Turret Interference



## Moving Range



## Machining Solution



Component Name: Axle Shaft  
Material: Steel  
Segment: Railways

## Machining Capability

C45 Steel

### Turnmill Operations

TURNING TEST		
Parameter	Unit	LR40TM L25
Component Diameter	mm	260
Turning Diameter	mm	236
Depth of Cut	mm	12
Spindle Speed	rpm	300
Feed	mm/rev	0.25
MRR	cm <sup>3</sup> /min	660

MILLING		
Parameter	Unit	LR40TM L25
Cutter Size	mm	25 x 3z
Spindle speed	rpm	2800
Feed	mm/mm	840
Width of Cut	mm	20
Depth of Cut	mm	3

DRILLING / TAPPING			
Parameter	Unit	LR40TM L25	
		Drilling	Tapping
Cutter Size	mm	20	M16 x 2
Spindle speed	rpm	2400	400
Feed	mm/mm	150	800
Depth of Cut	mm	30	25

# AUTOMATION

## Flexzy Bot

The Flexzy Bot is an automated system designed to handle the loading and unloading of workpieces, such as raw materials or finished components, from machines.

It is a compact and efficient solution aimed at enhancing both efficiency and productivity.

This automated solution is ideal for industries focused on bulk production, such as automobile, fittings, pump and general engineering, etc., driving improved efficiency and quality in manufacturing processes.

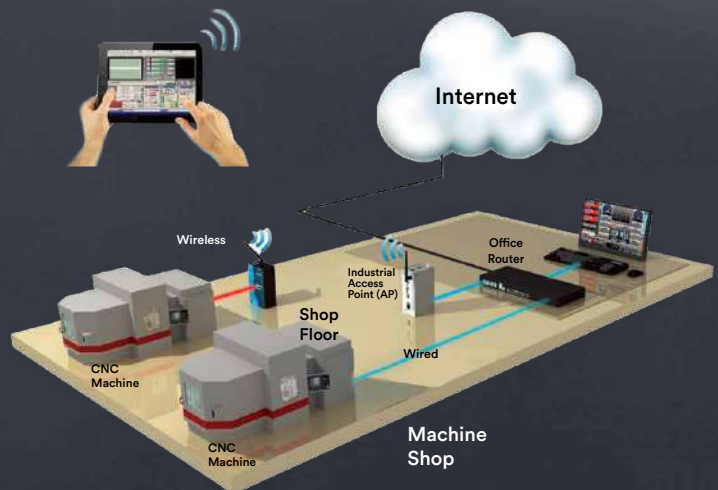


### Features

- ✓ Equipped with a 6-axis industrial cobot capable of handling a payload of up to 12 kg
- ✓ Capable of handling workpieces with a maximum height of 200 mm and round bar diameters between 5 mm and 225 mm, providing versatility for various component sizes.
- ✓ Compact design with overall dimensions of 1850 mm x 1200 mm x 1550 mm, suitable for space-constrained environments.
- ✓ Features a portable cell with a configurable 3 to 10-drawer stacker system, each drawer measuring 500 mm x 590 mm.
- ✓ Engineered to tend up to three CNC machines simultaneously.
- ✓ The component tray features a removable plate that can be adjusted to accommodate different component sizes.

## IOT

- ✓ Production Monitoring System
- ✓ Condition Monitoring System
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Engine Block



Differential Case & Steering Knuckle



Fasteners



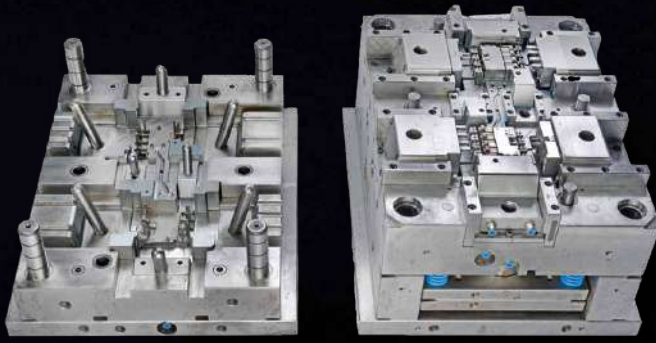
Pump Body



Bone Plate



Blisk



Injection Mould



Impeller



Valve Body



Shaft



Bearing Race

## Solutions Crafted for every **Industry**



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Die & Mould



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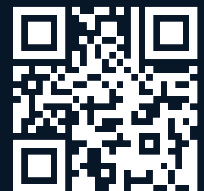
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Values shown are in test conditions, may vary depending on tools, materials and cutting parameters / conditions.