INNOVATION & VALUE CREATION

LMW®

2025
New Launches

TURNING - MILLING - TURNMILL CNC MACHINES

VALUE XPERIENCE

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

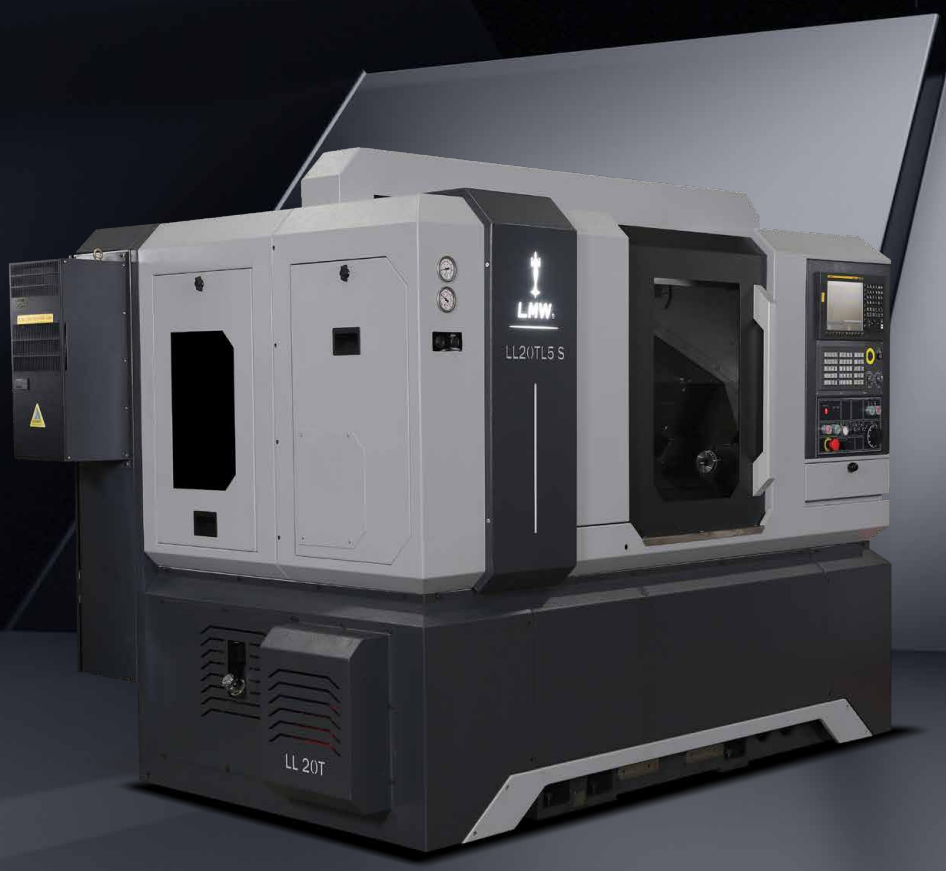
STurn 2M - The Next Generation Horizontal Turnmill Center

LR30MY L17 - Horizontal Turnmill Center with Y Axis

LR40TM L25 - Heavy Duty Horizontal Turnmill Center

LL20T L5 S

The **Next Generation** Horizontal Turning Center



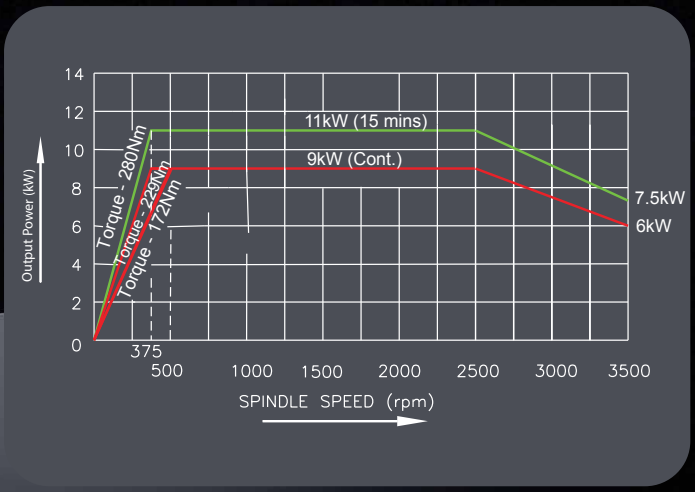
- Significant advantage in maximum turning diameter, allowing for the machining of larger workpieces and expanding the range of applications.
- Faster rapid traverse, providing quicker movements during machining operations and reducing cycle times.
- The 12-station tool turret increases flexibility for 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

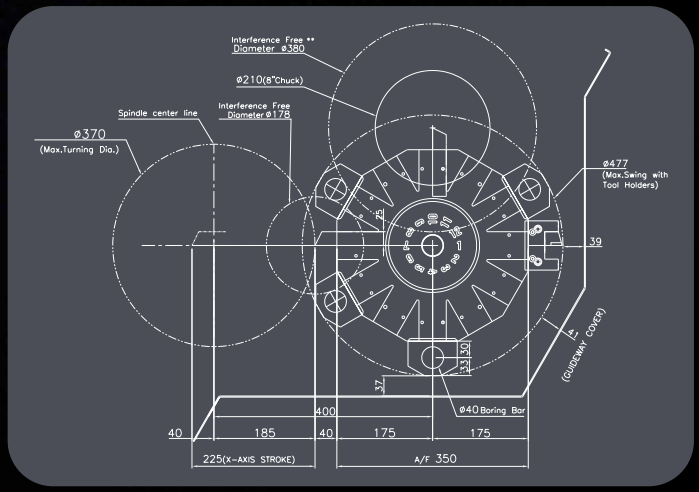
Pump & Valve | Oil & Gas

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^2	4.3
CNC System	Controller	–	Fanuc

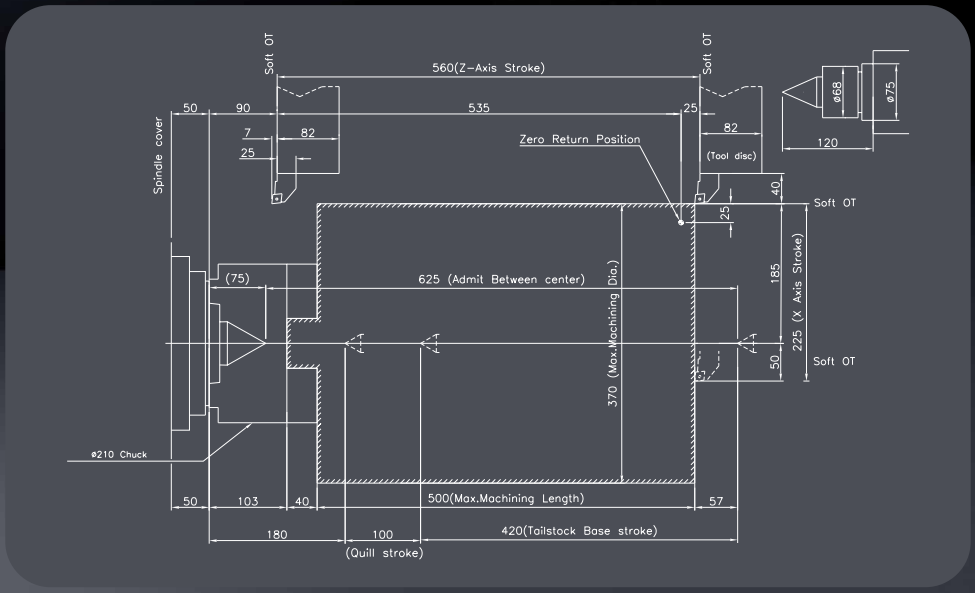
Speed Power Curve



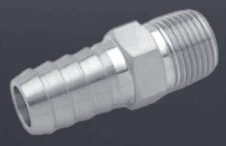
Turret Interference



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^3/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

- 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.

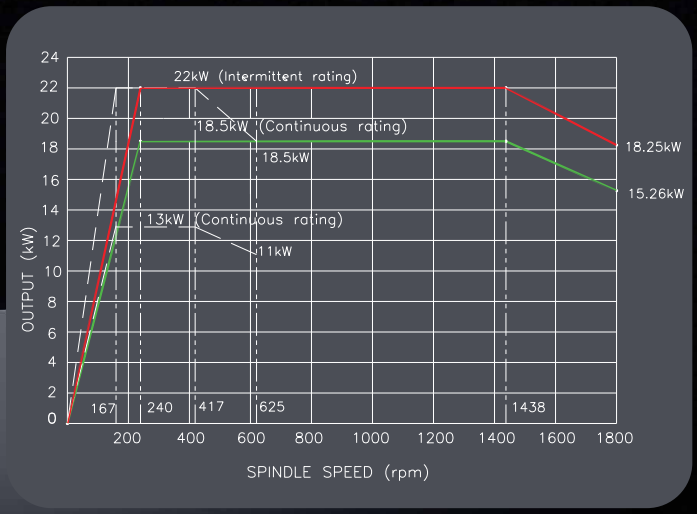
Automobile

General Engineering

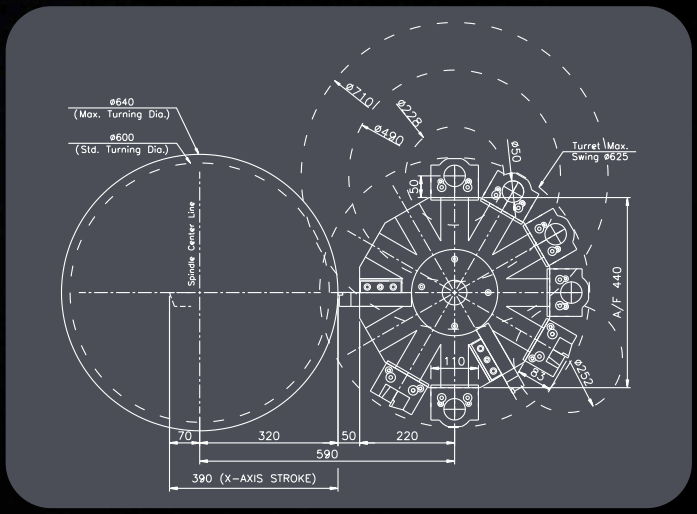
Pump & Valve

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^2	6.56
CNC System	Controller	–	Fanuc

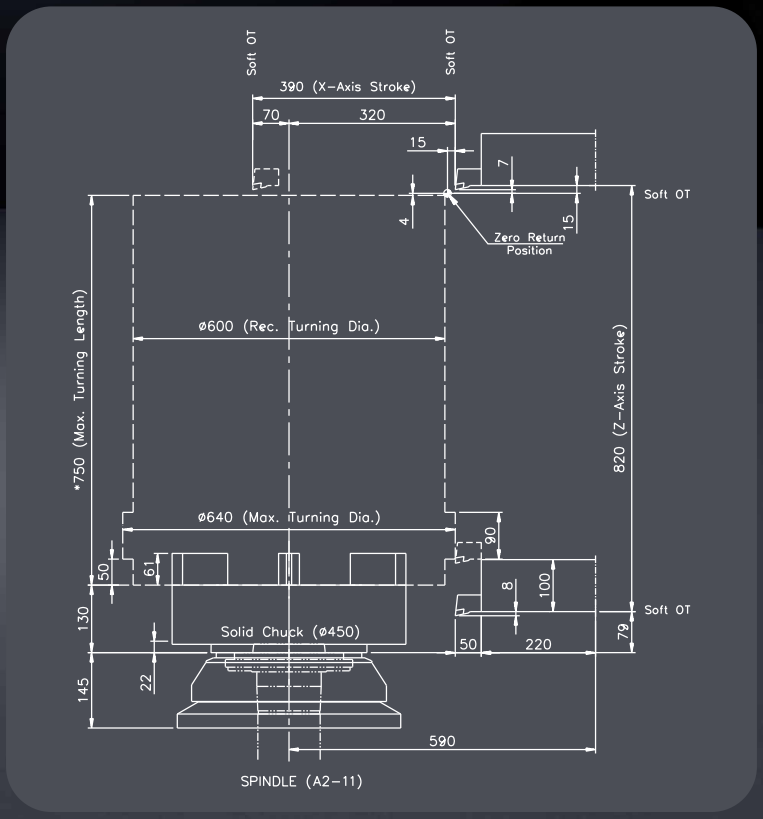
Speed Power Curve



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^3/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

- 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

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^2	6
CNC System	Controller	–	Fanuc

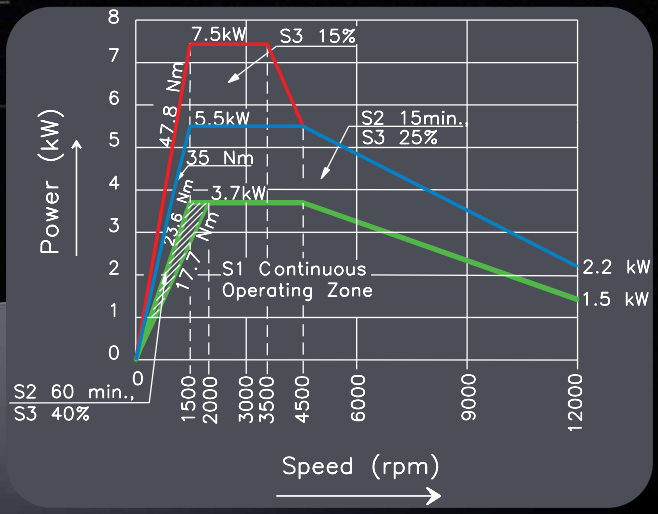
Automobile

Pump & Valve

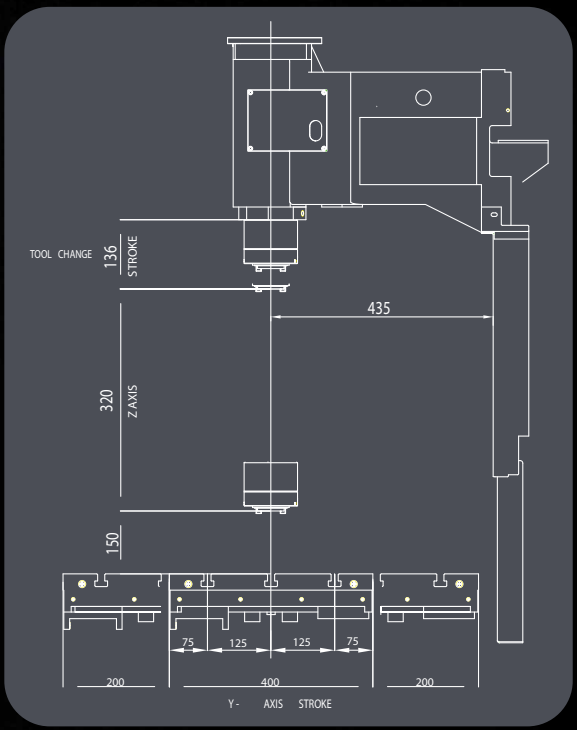
General Engineering

Electronics

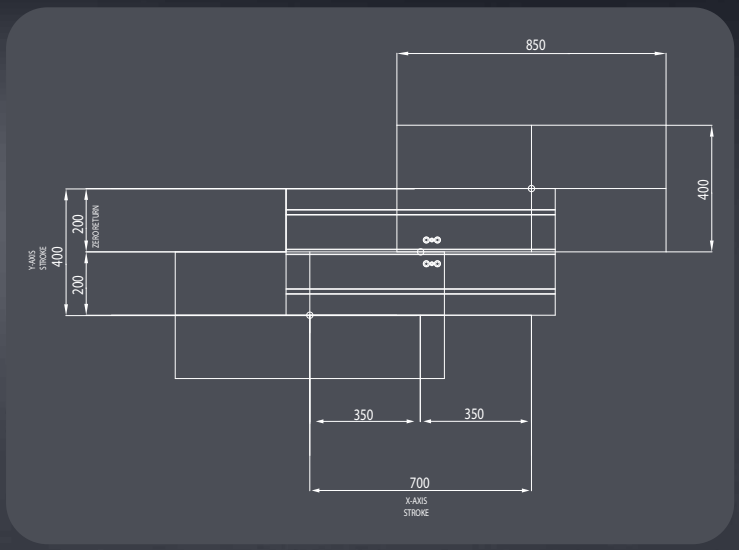
Speed Power Curve



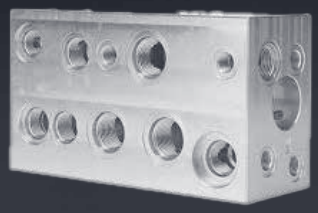
Moving Range



Moving Range



Machining Solution



Component Name: Valve Block
Material: Aluminium
Segment: Automobile

Machining Capability

C45 Steel

FACE MILLING		
Parameter	Unit	JD2 L
Cutter Size	mm	63 x 5z
Spindle speed	rpm	1500
Feed	mm/mm	1000
Width of Cut	mm	48
Depth of Cut	mm	2
Capacity	cc/min	96

TAPPING			
Parameter	Unit	JD2 L	
		Min	Max
Tap Size	mm	M1.2 x 0.25	M16 x 2
Spindle speed	rpm	1100	200
Feed	mm/mm	275	400
Depth of Cut	mm	4	30

DRILLING			
Parameter	Unit	JD2 L	
		Min	Max
Drill Size	mm	0.9	25 x 2z
Spindle speed	rpm	10000	1500
Feed	mm/mm	100	180
Depth of Cut	mm	5	40

JG50 R

Moving Column VMC with **Rotary Pallet Changer**

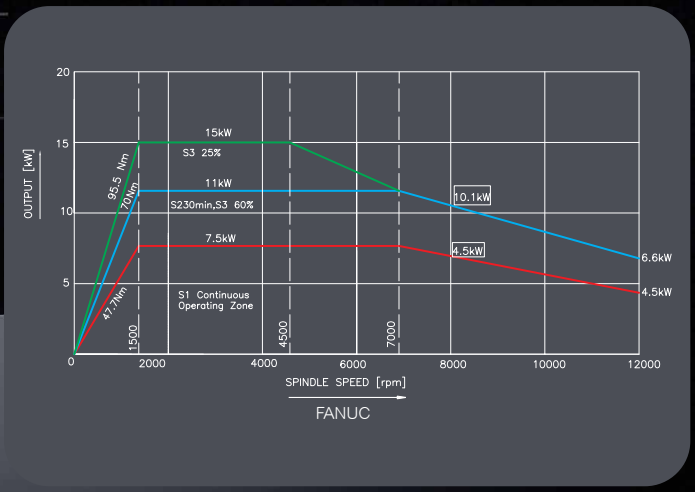
- Gantry structure for higher rigidity
- Rotary pallet changer for high productivity
- 12000 rpm Direct Couple HSK A50 Spindle
- Higher axes acceleration & deceleration (1G)
- Compact footprint with rigid structure
- Faster ATC - Tool to Tool change time 1 sec
- Versatile table configuration (4 & 5 axis)

Die & Mould | Automobile | Medical

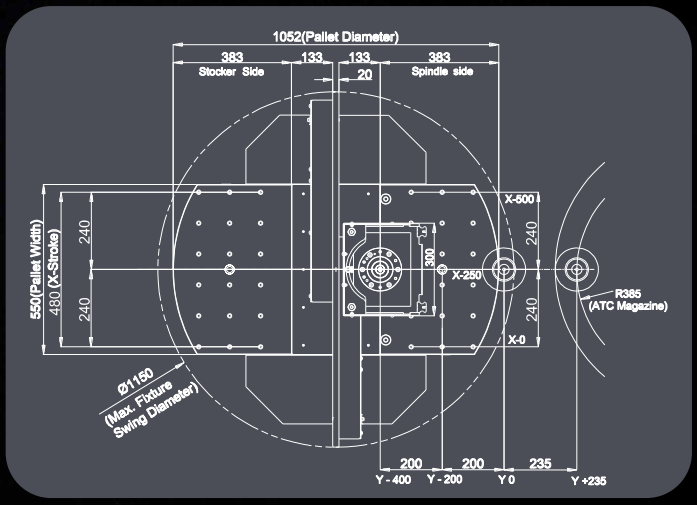
Electronics | Aerospace

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^2	6.7
CNC System	Controller	–	Fanuc

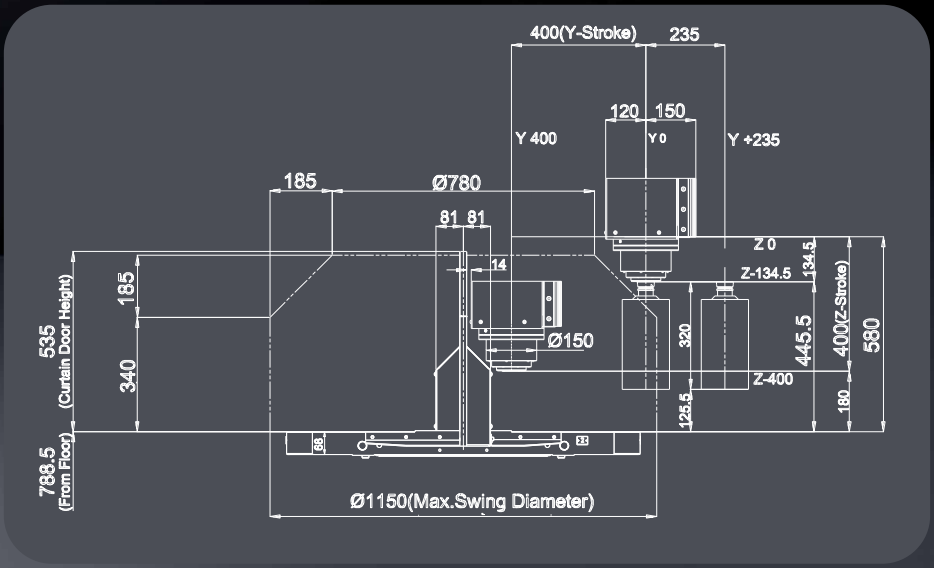
Speed Power Curve



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

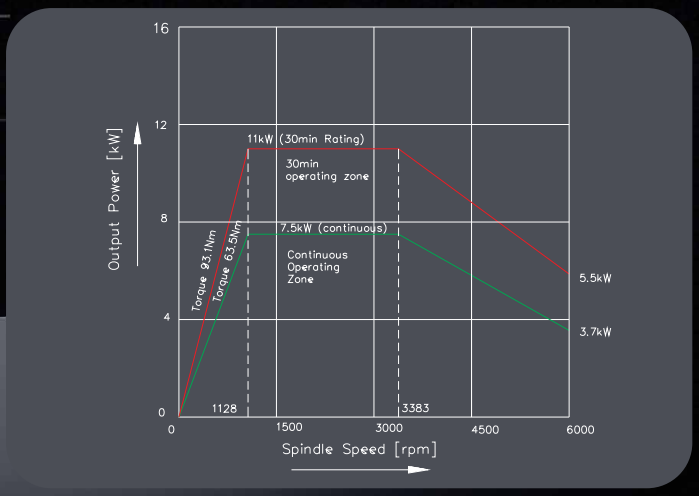
- Rigid structure with compact footprint ensures stability and precision while saving space.
- Higher Y and Z-axis travel allow for machining a broader range of components, expanding operational capabilities.
- Faster Rapid traverse rate and additional tools reduce cycle times and minimize downtime.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

General Engineering | Automobile | Oil & Gas

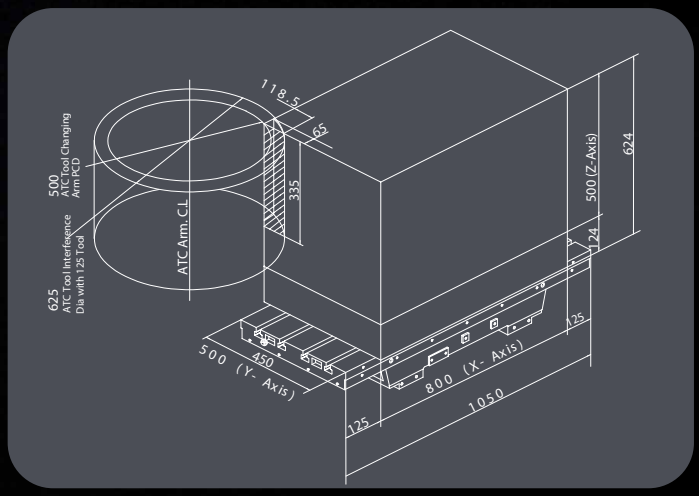
Pump & Valve | Agri & Earth Movers

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^2	5.3
CNC System	Controller	–	Mitsubishi

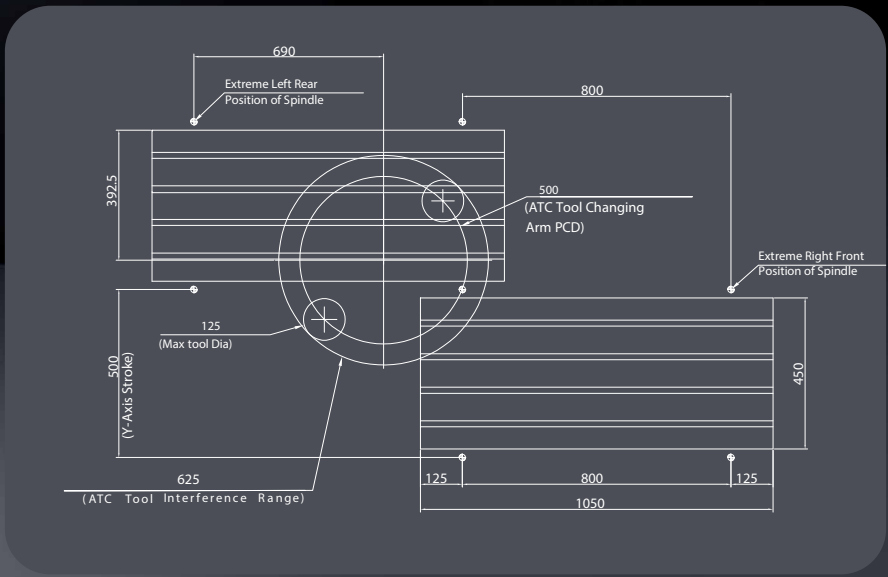
Speed Power Curve



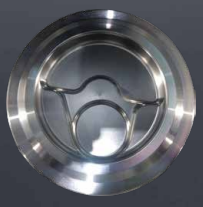
Interference Diagram



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

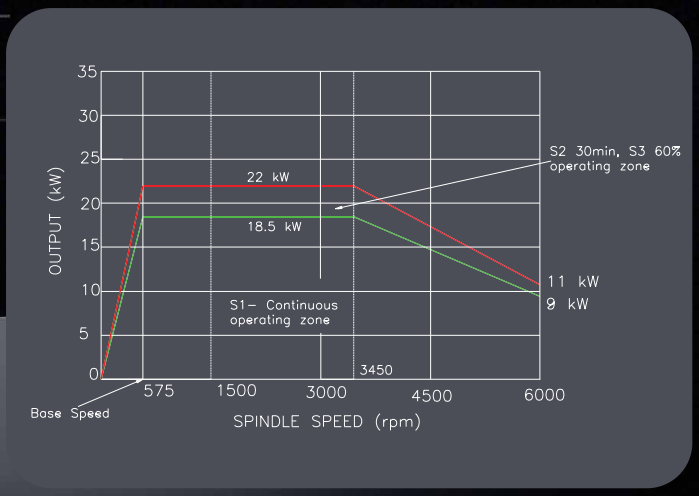
- JV150 designed with a rigid and thermally stable structure, ensuring superior performance even during demanding machining operations.
- Provides better performance for cutting harder materials and heavy-duty machining.
- Equipped with high Torque BT50 spindle capable of delivering exceptional cutting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

Die & Mould | Automobile | Railway

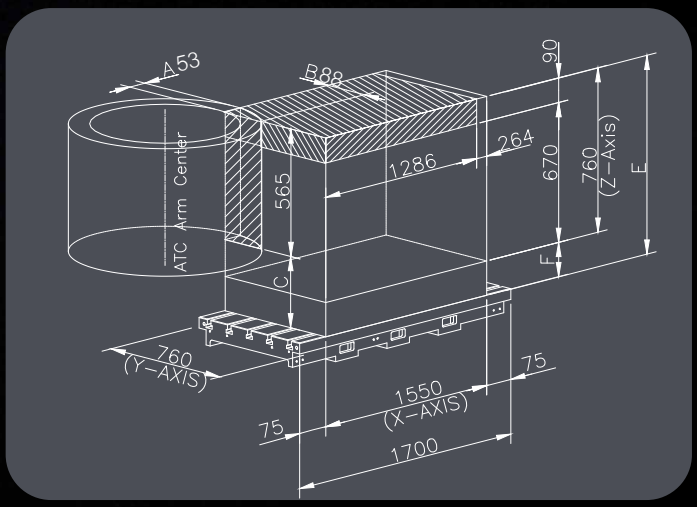
Pump & Valve | Agri & Earth Movers | General Engineering

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^2	12.8
CNC System	Controller	–	Mitsubishi

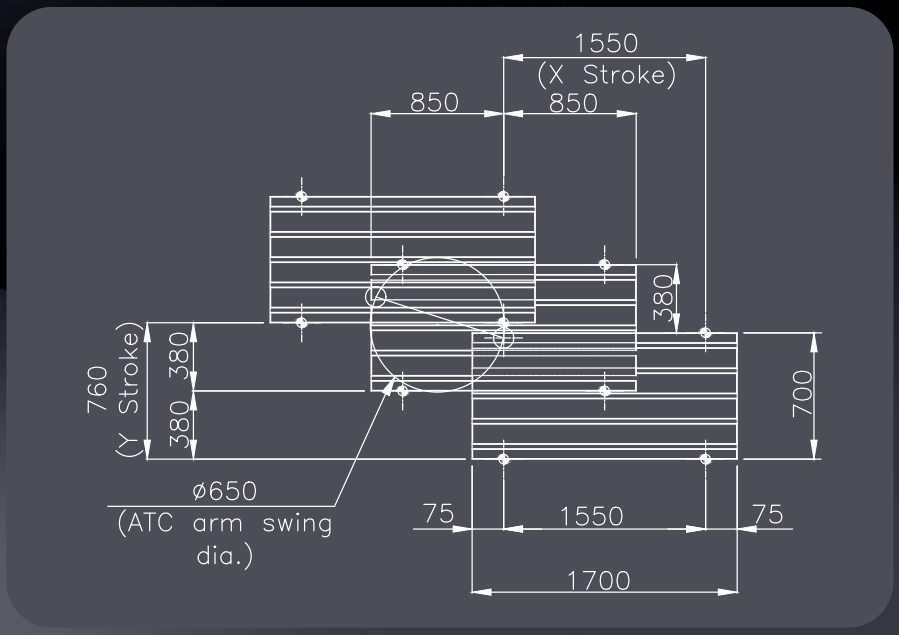
Speed Power Curve



Interference Diagram



Moving Range



Machining Solution

Machining Capability

C45 Steel

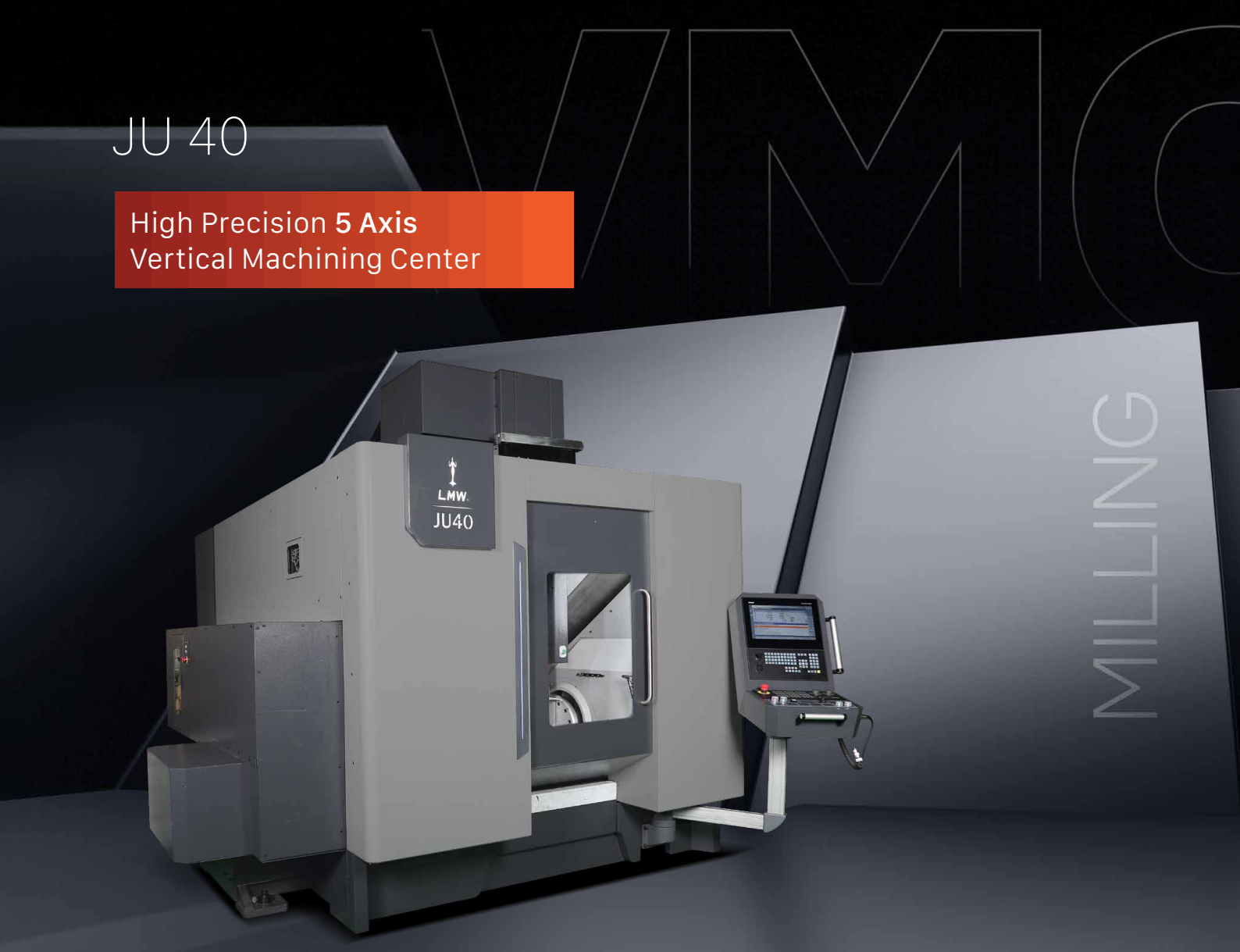
FACE MILLING		
Parameter	Unit	JV 150
Cutter Size	mm	125 x 10z
Spindle speed	rpm	637
Feed	mm/mm	1274
Width of Cut	mm	100
Depth of Cut	mm	6
Capacity	cc/min	764.4

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



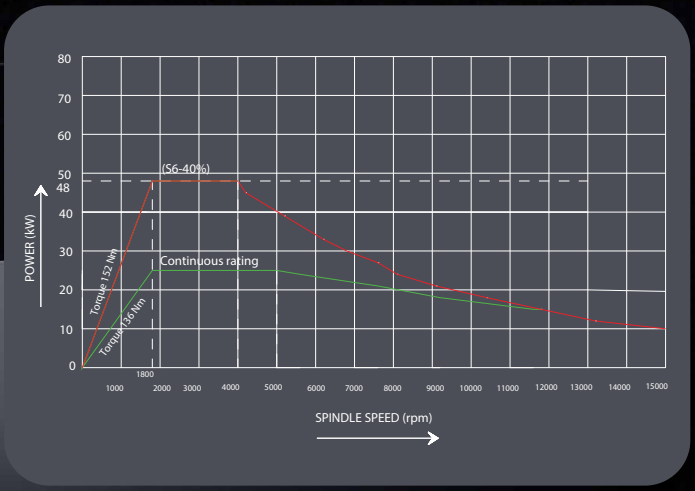
- JU40 provide the flexibility to handle larger workpieces, enabling and increased loading capacity allows for managing heavier and taller parts with ease.
- Increased rapid taverse speeds reduce idle times, enabling quicker operations and improved throughput.
- A larger tool capacity ensures seamless operations during complex jobs, reducing downtime.
- A higher spindle speed delivers smoother finishes, faster cutting, and greater efficiency, minimizing rework and ensuring consistent quality.

TITLE	DESCRIPTION	UNIT	JU 40
Travel	X Axis	mm	400
	Y Axis	mm	550
	Z Axis	mm	550
	Table Indexing Angle - A Axis	Deg	-120º / +30º
	Table Indexing Angle - C Axis	Deg	360º
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^2	15.7
CNC System	Controller	–	Siemens

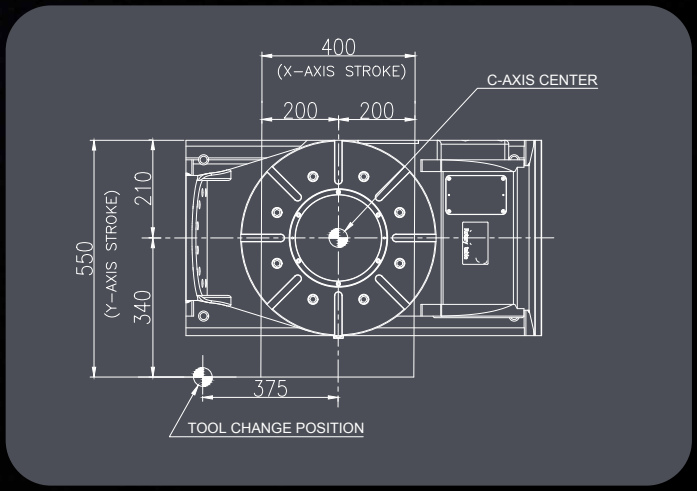
General Engineering | Automobile | Energy

Defence | Aerospace | Medical

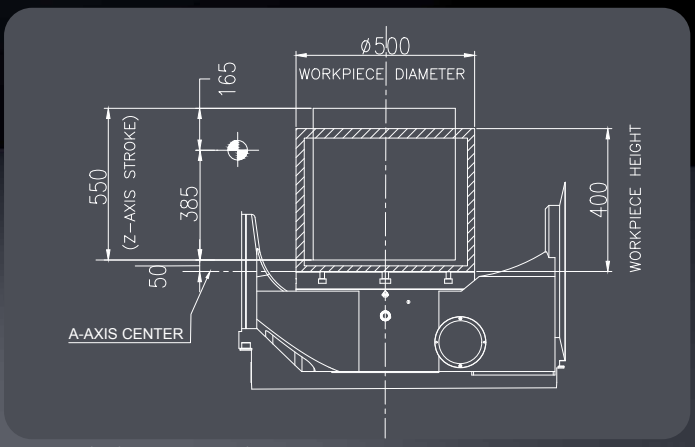
Speed Power Curve



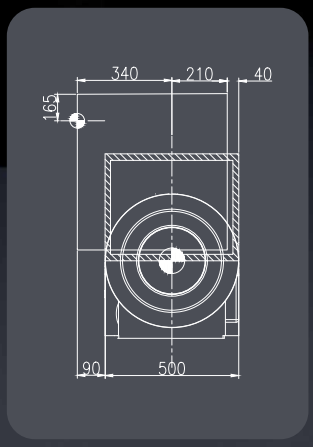
Moving Range - Top View



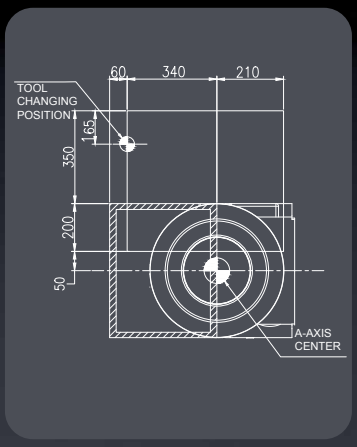
Side View



A Axis at 0º



A Axis at 90º



Machining Solution

Component Name: Blisk
Material: C45
Segment : Aerospace

Machining Capability

C45 Steel

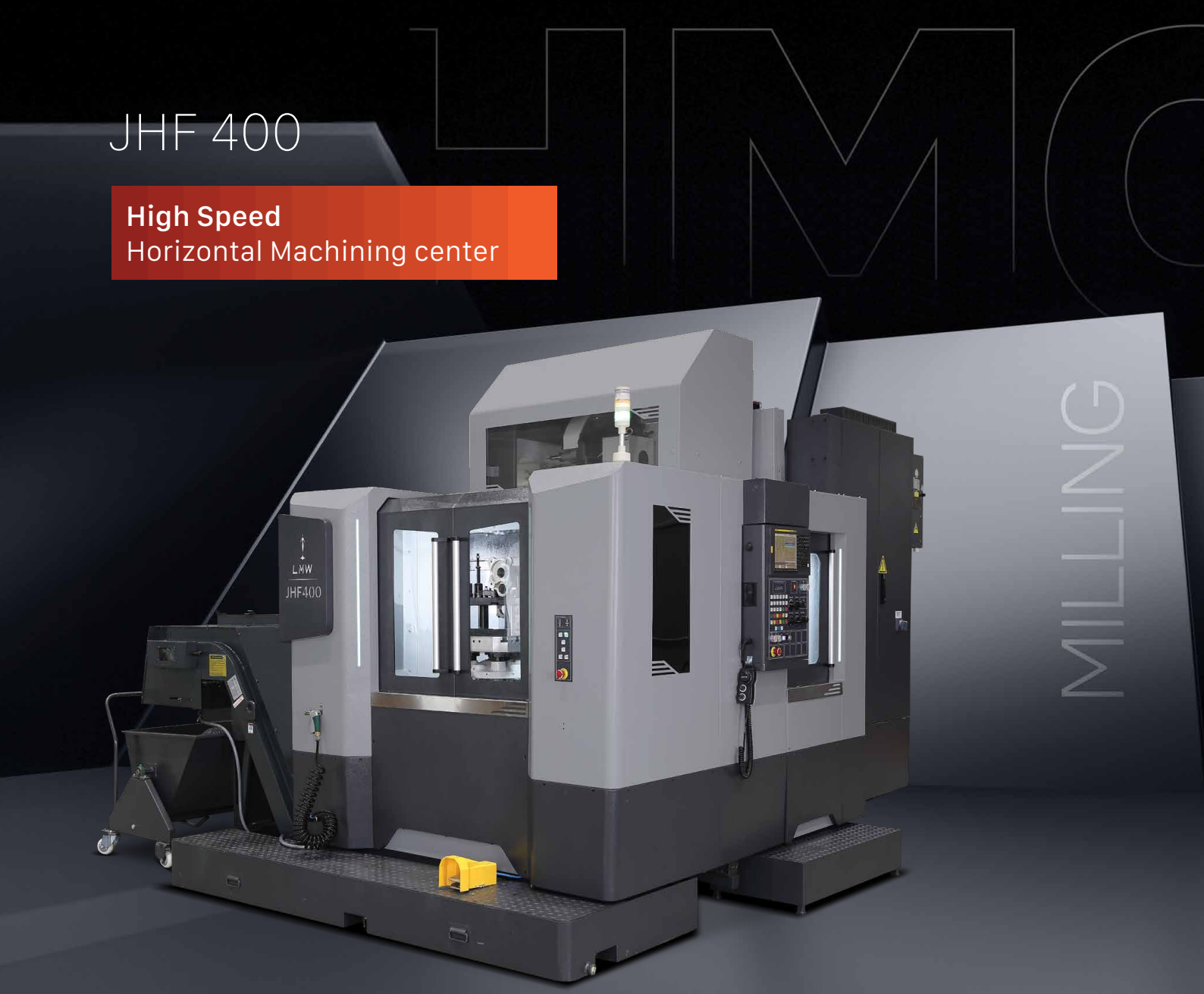
FACE MILLING		
Parameter	Unit	JU 40
Cutter Size	mm	80 x 6z
Spindle speed	rpm	1000
Feed	mm/mm	1200
Width of Cut	mm	60
Depth of Cut	mm	4
Capacity	cc/min	288

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



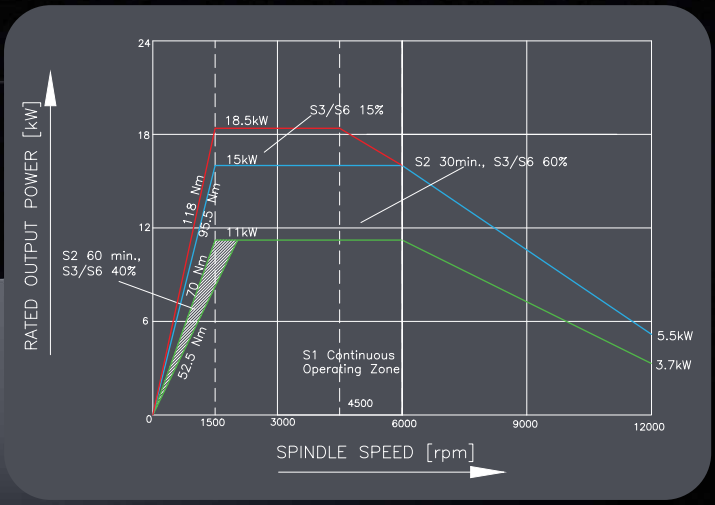
- Higher motor power enhances cutting ability for tougher materials and more demanding operations.
- Larger tool magazine reduces tool changes and allows more complex machining.
- Direct coupled BBT 40 spindle with 12000 Rpm
- Delivers higher material removal rates and optimized cycle times.

Pump & Valve | Automobile | Oil & Gas

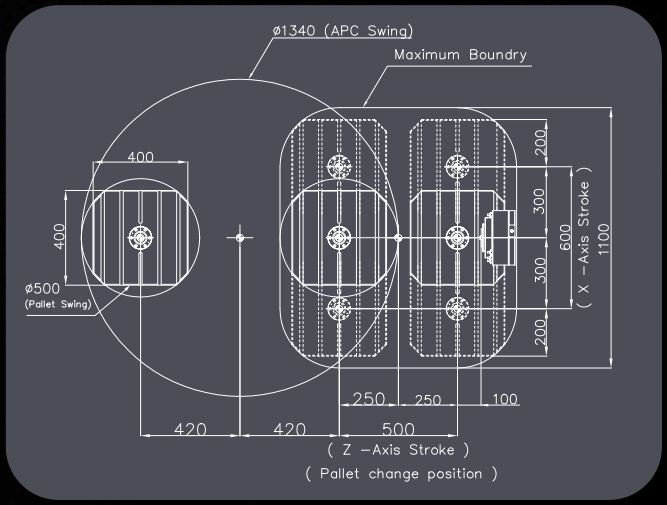
Agri & Earth Movers | General Engineering

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^2	12.5
CNC System	Controller	–	Fanuc

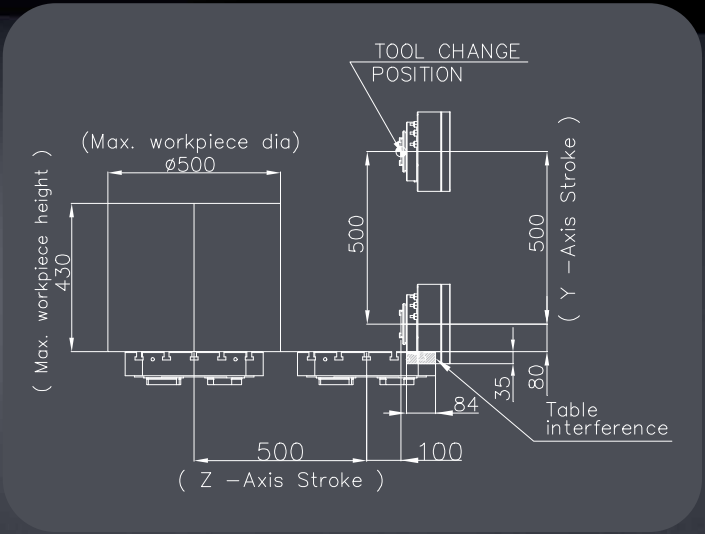
Speed Power Curve



Moving Range - Top View



Moving Range - Side View



Machining Solution

Component Name: Clutch Housing
Material: Aluminium
Segment: Automobile

Machining Capability

C45 Steel

FACE MILLING		
Parameter	Unit	JHF 400
Cutter Size	mm	80 x 6z
Spindle speed	rpm	1500
Feed	mm/mm	1400
Width of Cut	mm	60
Depth of Cut	mm	4
Capacity	cc/min	336

DRILLING			
Parameter	Unit	JHF 400	
		Min	Max
Drill Size	mm	1	48 x 2z
Spindle speed	rpm	8000	1000
Feed	mm/mm	100	100
Depth of Cut	mm	5	40

TAPPING			
Parameter	Unit	JHF 400	
		Min	Max
Tap Size	mm	M1.2 x 0.2	M27 x 3
Spindle speed	rpm	1200	235
Feed	mm/mm	240	705
Depth of Cut	mm	4	35

JH 550

Heavy Duty
Horizontal Machining center

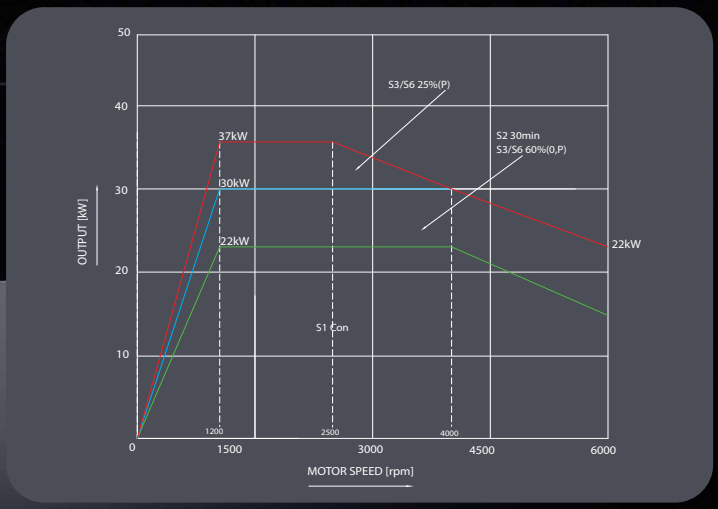
- JH550 is built for continuous operations with minimal downtime, ensuring consistent output and high reliability.
- It Features a BBT50 spindle for superior rigidity and precision, ideal for tough-to-machine materials.
- High-torque spindles deliver exceptional cutting performance, ensuring smooth and 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

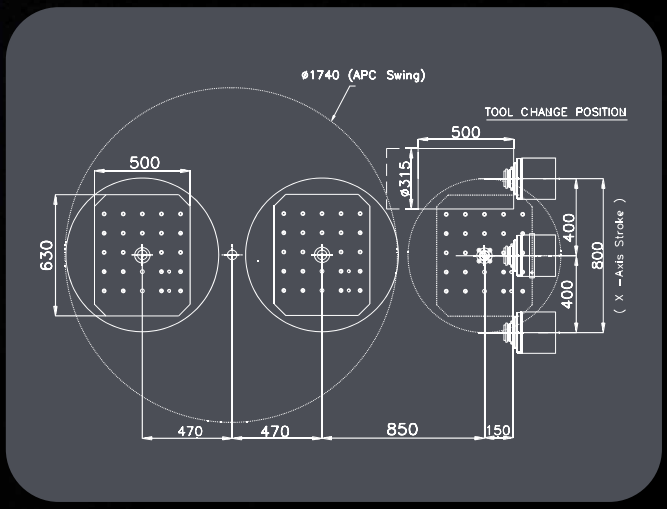
Agri & Earth Movers | Defence

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^2	20
CNC System	Controller	–	Fanuc

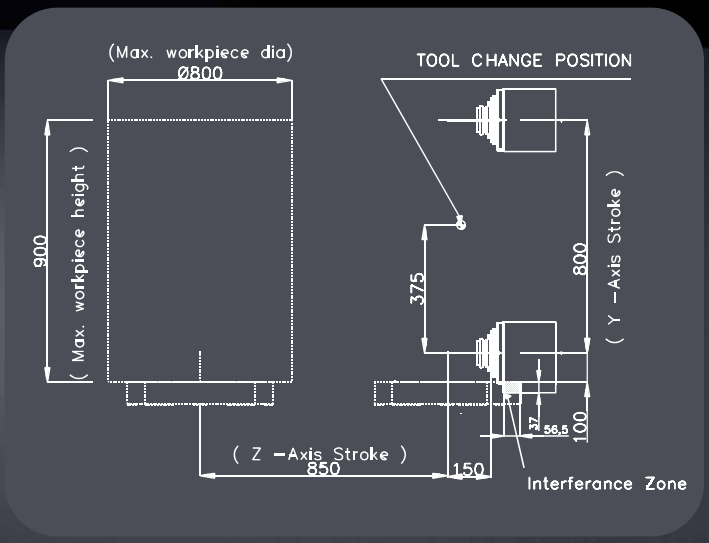
Speed Power Curve



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

STurn 2M

The Next Generation
Horizontal Turnmill Center

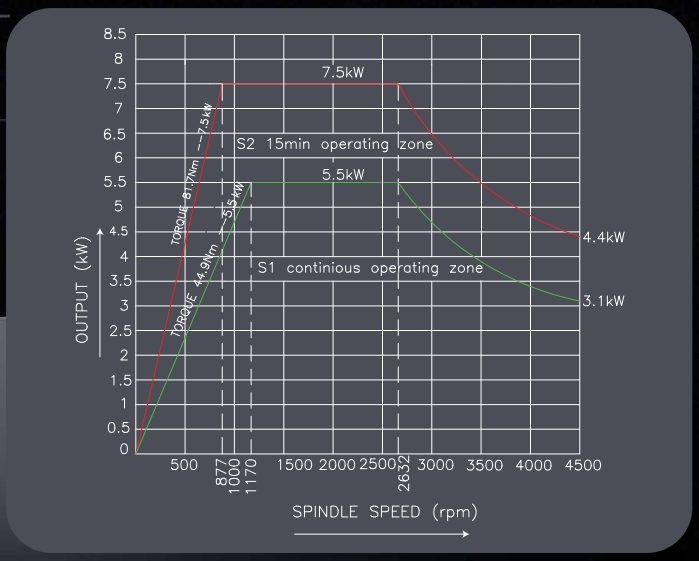
- Equipped with a BMT 45 turret and 12 tool stations, the S TURN 2M offers versatility for different machining tasks, reducing down-time for tool changes.
- Designed for continuous, high-performance machining, ensuring reliable operations even under heavy workloads.
- The 12-station live tool turret 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

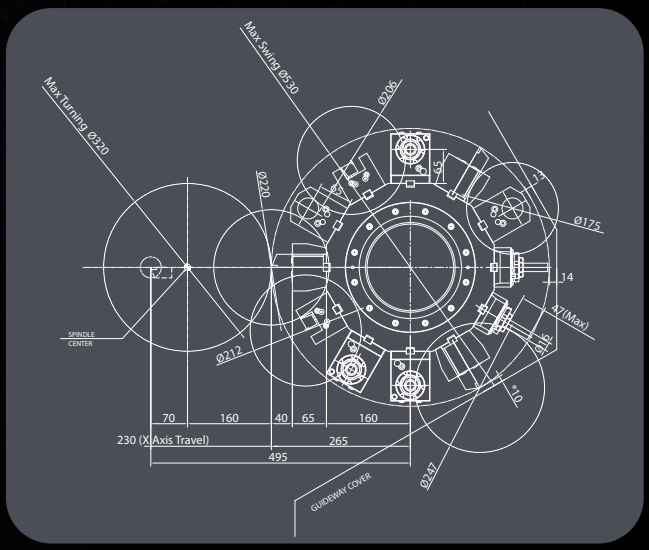
Aerospace | Energy | General Engineering

TITLE	DESCRIPTION	UNIT	STurn 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^2	4.2
CNC System	Controller	–	Mitsubishi

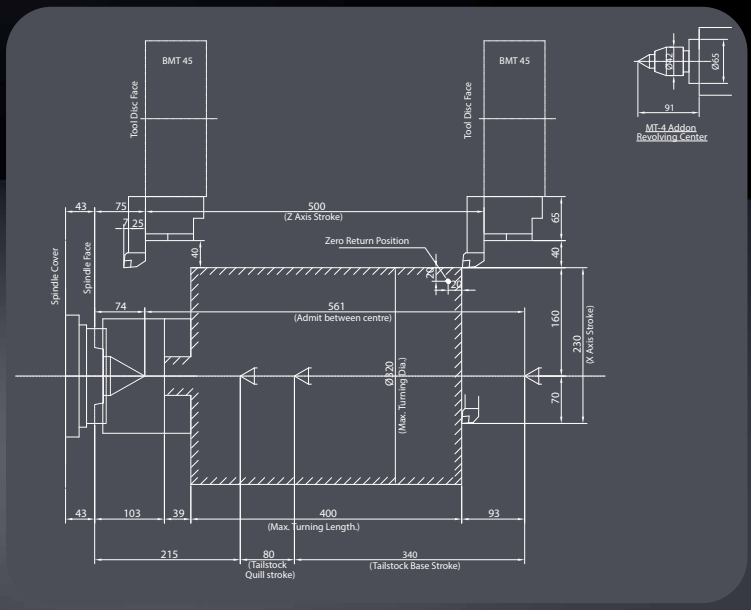
Speed Power Curve



Turret Interference



Moving Range



Machining Solution

Component Name: Connectors
Material: Stainless Steel
Segment: Fittings

Machining Capability

C45 Steel

TURNING TEST		
Parameter	Unit	STurn 2M
Major Diameter	mm	85
Minor Diameter	mm	80
Depth of Cut	mm	2.5
Spindle Speed	Rpm	800
Feed	mm/rev	0.25
MRR	cm^3/min	126

O.D THREADING TEST		
Parameter	Unit	STurn 2M
Thread	mm	M42 x 2
Spindle Speed	mm	375
Feed	mm/rev	2

DRILLING TEST		
Parameter	Unit	STurn 2M
Drill Diameter	mm	25
Drill Depth	mm	20
Spindle Speed	rpm	1200
Feed	mm/rev	0.08

LR30MY L17

Horizontal Turnmill Center with **Y Axis**

TURNMILL

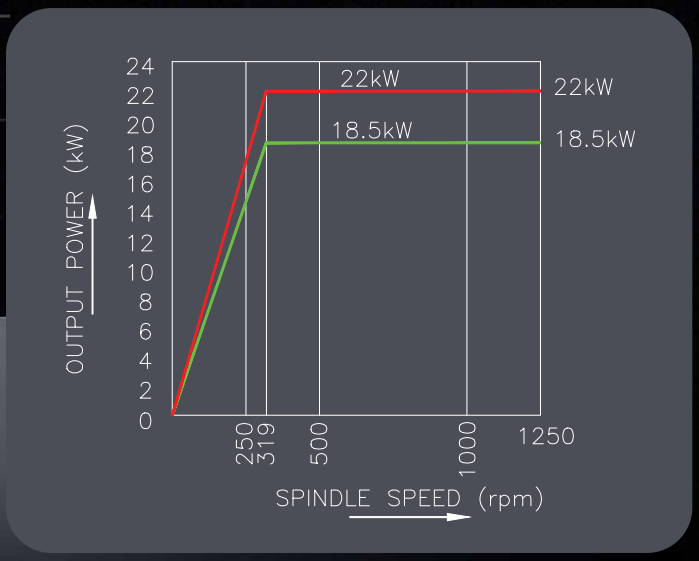
- The Y Axis allows for complex machining operations, providing greater versatility and precision in handling intricate parts.
- Equipped with a BMT 65 turret, the machine offers high rigidity and precision, accommodating a variety of tools for diverse machining tasks, reducing downtime for tool changes.
- 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

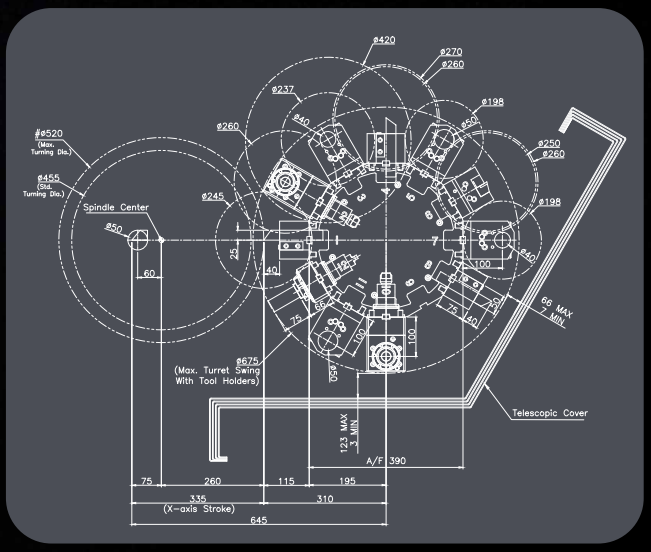
Aerospace | Energy | Agri & Earth Movers

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^2	15
CNC System	Controller	–	Fanuc

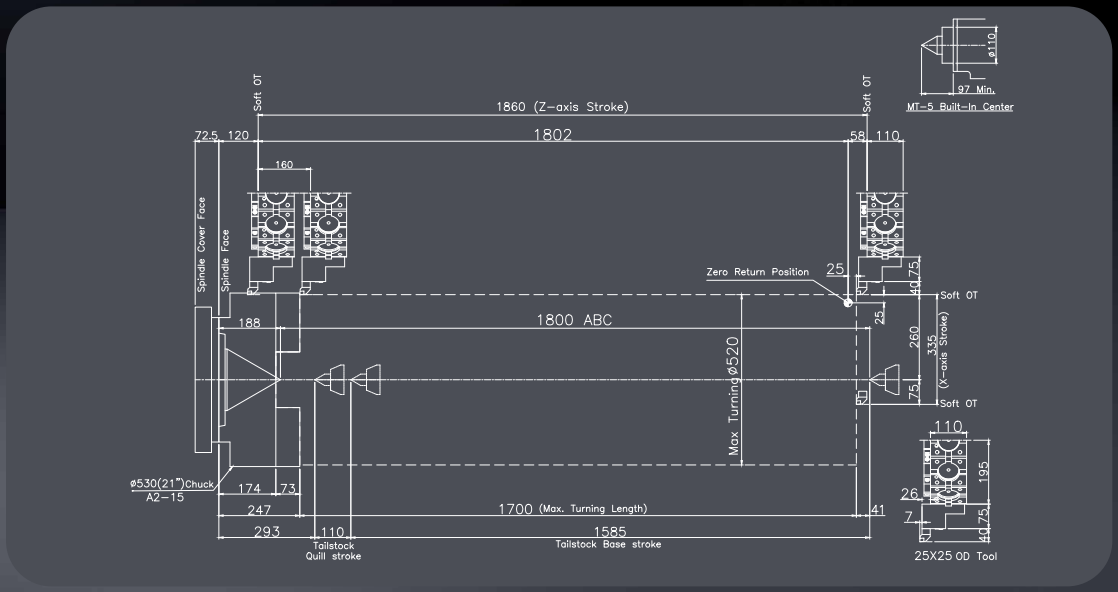
Speed Power Curve - Without Gear box



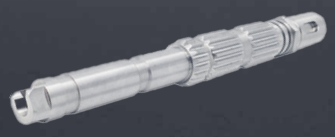
Turret Interference



Moving Range



Machining Solution



Component Name: Drive Shaft
Material: Steel
Segment: Energy

Machining Capability

C45 Steel

TURNING TEST		
Parameter	Unit	LR30MY L17
Component Diameter	mm	200
Turning Diameter	mm	180
Depth of Cut	mm	10
Spindle Speed	rpm	390
Feed	mm/rev	0.25
MRR	cm^3/min	550

Turnmill Operations

MILLING		
Parameter	Unit	LR30MY L17
Cutter Size	mm	25 x 3z
Spindle speed	rpm	2800
Feed	mm/mm	840
Width of Cut	mm	20
Depth of Cut	mm	2.5

DRILLING / TAPPING			
Parameter	Unit	LR30MY L17	
		Drilling	Tapping
Cutter Size	mm	20	M14 x 2
Spindle speed	rpm	2400	450
Feed	mm/mm	150	900
Depth of Cut	mm	30	25

LR40TM L25

Heavy Duty
Horizontal Turnmill Center

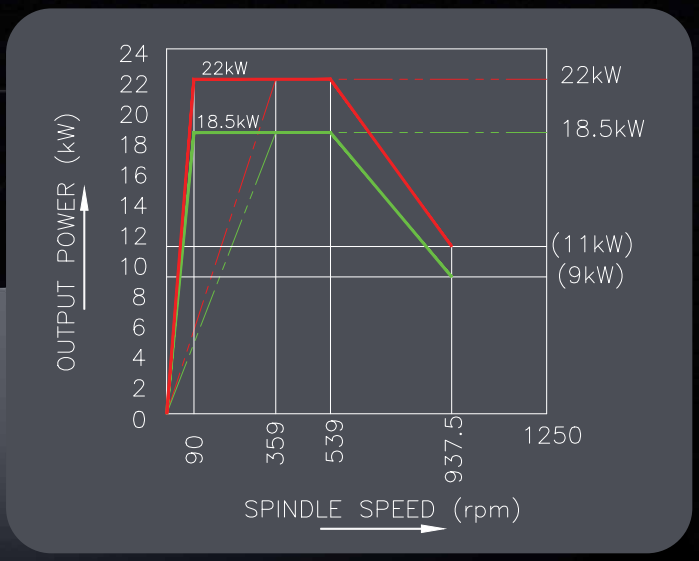
- LR40TM L25 is equipped with a BMT 75 turret and 12 tool stations, offering high rigidity, precision, and flexibility for various machining tasks
- Designed to meet the rigorous demands of industries like oil & gas, railways, power & energy, and steel manufacturing.
- Milling capabilities expand its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

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
	Rotary Tool Motor Power	kW	6.4
Tailstock	Quill Diameter	mm	120
	Quill Stroke	mm	120
	Quill Taper	-	MT-6
General	Floor Space	m^2	15.7
CNC System	Controller	–	Fanuc

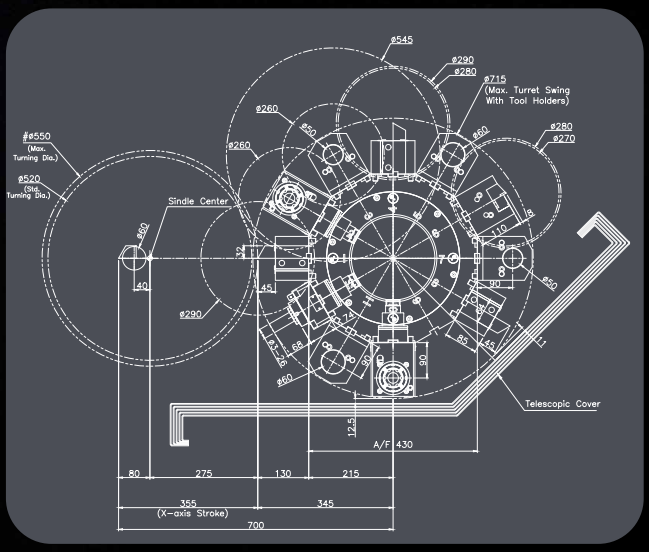
Oil & Gas | Railway | Defence

Aerospace | Energy | General Engineering

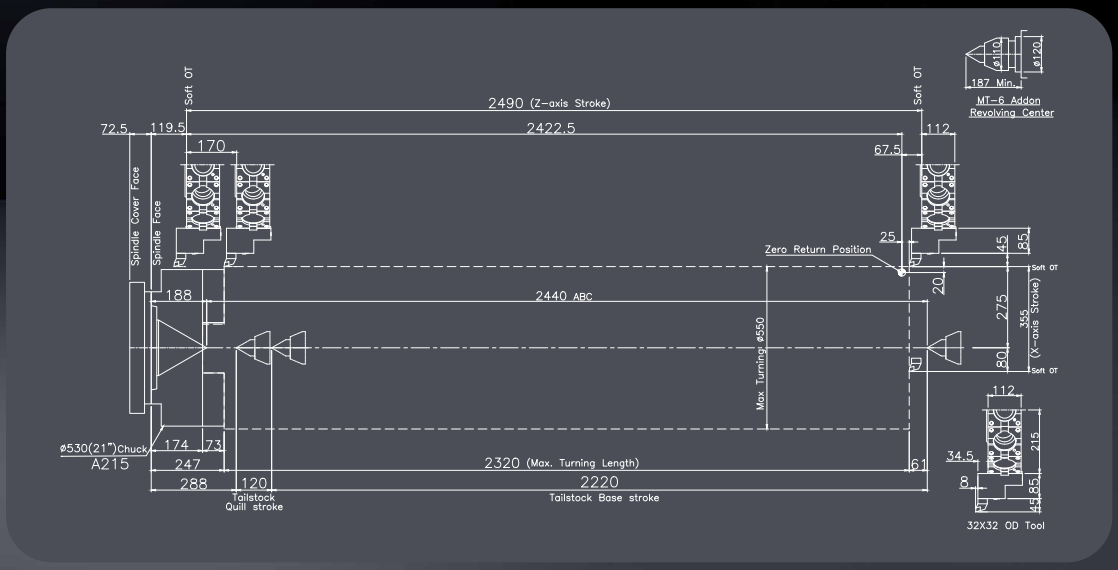
Speed Power Curve - With Gear box



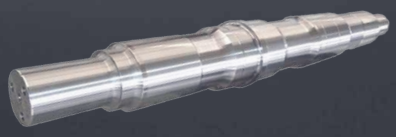
Turret Interference



Moving Range



Machining Solution



Component Name: Axle Shaft
Material: Steel
Segment: Railways

Machining Capability

C45 Steel

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^3/min	660

Turnmill Operations

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.

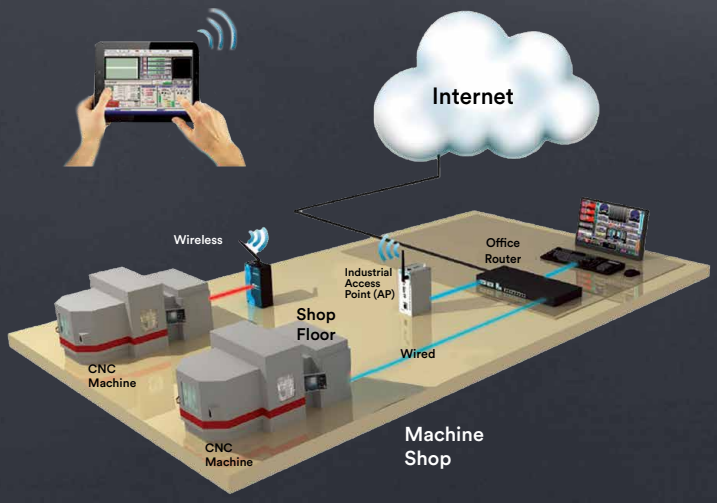
This automated solution is ideal for industries focused on bulk production, such as automobile, fittings, pump and general engineering, etc., driving improved efficiency and quality in manufacturing processes.

Features

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

IOT

- Production Monitoring System
- Condition Monitoring System
- Quality Management System
- Asset Management System
- Smart App for Operator
- Digital Service Request System



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MACHINING SOLUTIONS

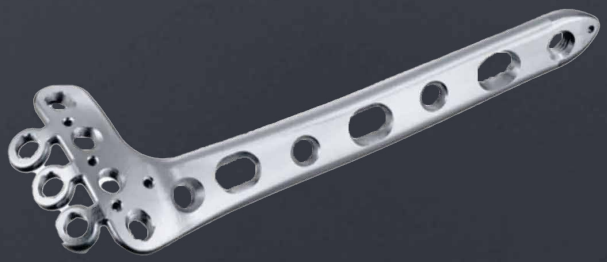
At LMW, we are proud to be your trusted partner for machining solutions across a diverse range of industry segments. We understand that each sector has unique demands, and that`s why we have an wide array of machines and expertise. For example, In the automobile sector, we specialize in producing high-precision components that meet the stringent quality standards. Our aerospace solutions encompass both commercial and defence applications, where precision and reliability are paramount. For the medical industry, we offer machining services that contribute to the manufacturing of life-saving devices and equipment, ensuring adherence to strict regulatory requirements.

Engine Block

Differential Case & Steering Knuckle

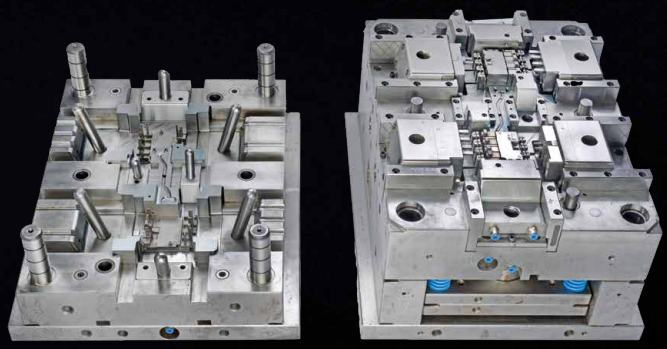
Fasteners

Pump Body



Bone Plate

Blisk



Injection Mould

Impeller

Valve Body

Shaft

Bearing Race

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