



LTV SERIES



VERTICAL TURNING & TURNMILL CENTERS

LTV SERIES

LTV 30 PLUS **NEW**

Our new LTV 30 Plus is engineered for high-production environments. Featuring a robust spindle and turret compatible with 32x32 mm tool shank sizes, it offers unmatched versatility. With a maximum turning length of 770 mm and diameter of 540 mm, coupled with its compact footprint, this powerhouse delivers user-friendly solution for any machining operation.

LTV 30



LTV 40 / LTV 50



LTV 30 M / 50 M



HIGHLIGHTS

- Maximum Turning upto Dia 800mm.
- Maximum Turning upto Length 800mm.
- Rigid Hydraulic 8 station turret.
- High precision LM guide ways in linear axis.
- Maximum Spindle motor power upto 18.5/22.
- Larger size 12 stations BMT 75 Live tool turret. *
- Live tool with higher rotary tool power (5.5kW).*

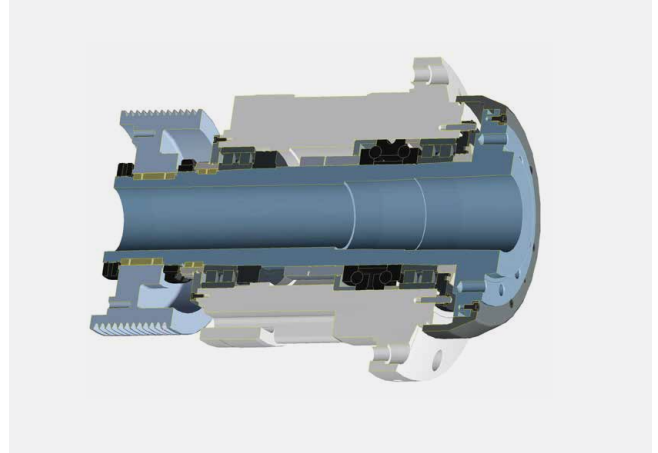
* Applicable for LTV 30M / LTV 50M

BED

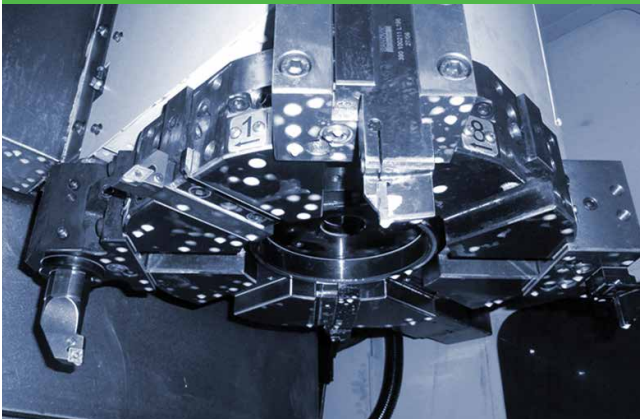
- Box type structure for heavy duty machining and dynamic load
- Designed for heavy and large diameter components
- Effective chip disposal and coolant management.

**SPINDLE**

- Front - double row cylindrical bearing and double direction thrust angular contact ball bearing.
- Rear - double row cylindrical roller bearing.
- Spindle front bearing (ID) - 160 mm.*

**TURRET**

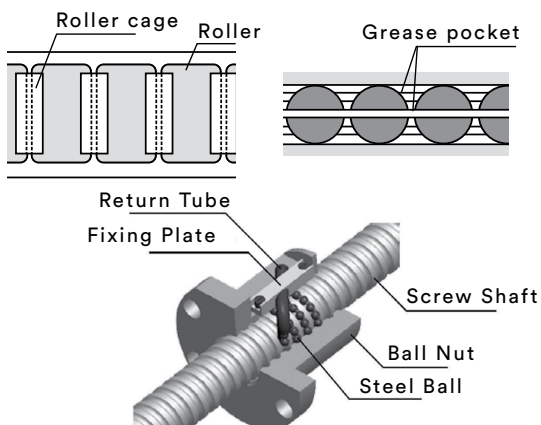
- 8 Station bi-directional hydraulic indexing turret.
- Clamping / un clamping by hydraulics.
- Hydraulic Counterbalance to prevent vertical drop.*

**AUTOMATION SOLUTIONS**

Customized automation solution for the production industries to ensure smooth and reliable production flows.

**FEED MECHANISM**

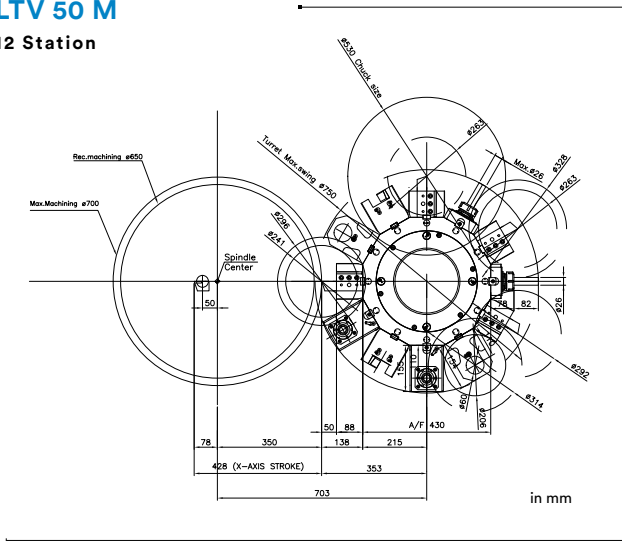
- Roller LM guideways on both the axes for heavy cutting.*
- Pre tensioned ball screws for high accuracy.

**COMPONENTS**

* Applicable for Selected models of LTV Series

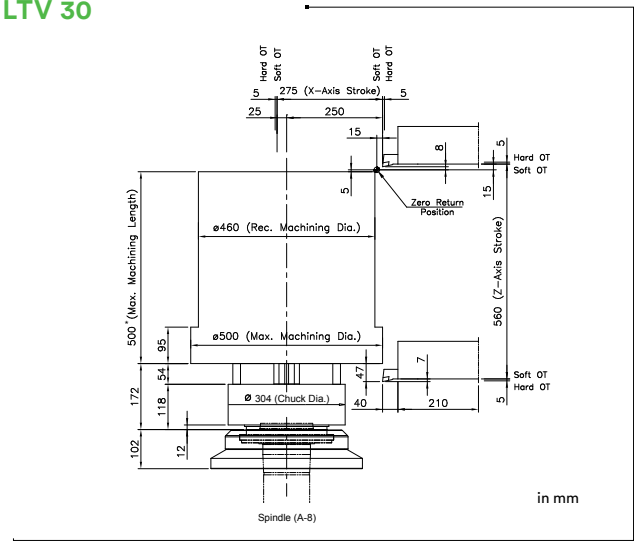
LTV 50 M

12 Station

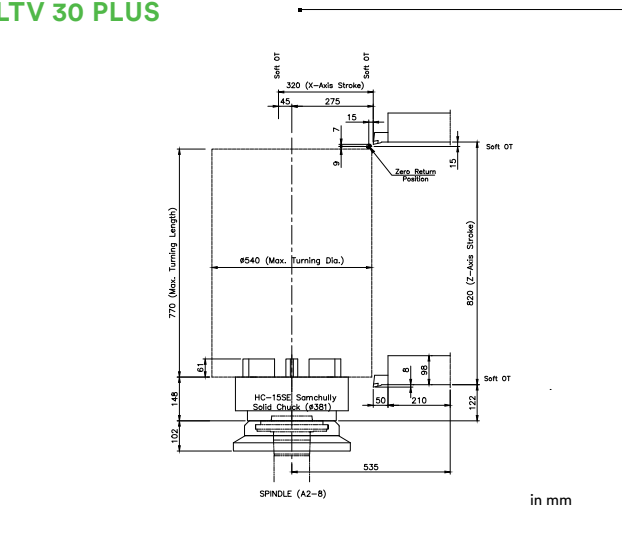


MOVING RANGE

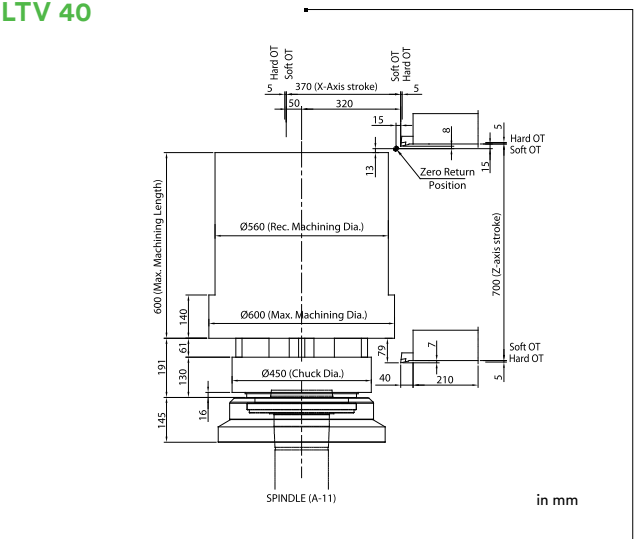
LTV 30



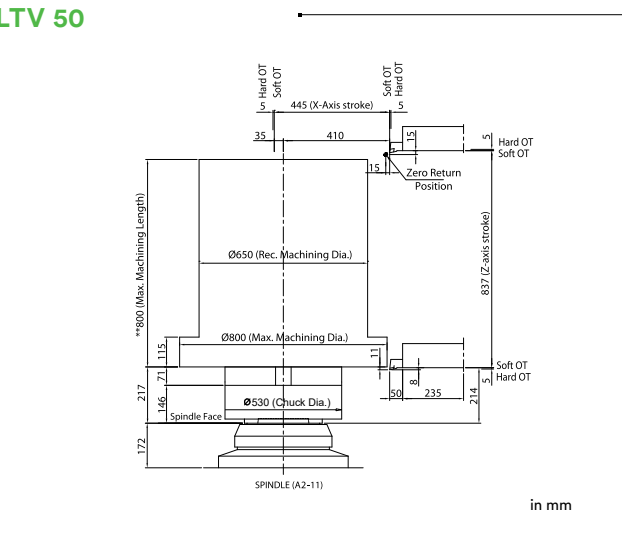
LTV 30 PLUS



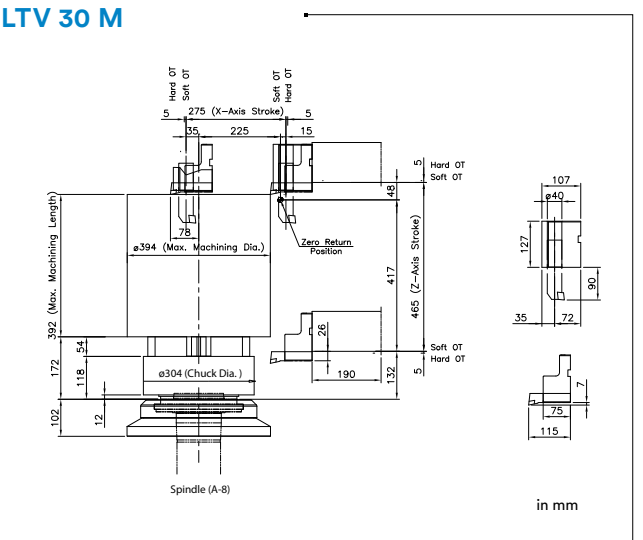
LTV 40

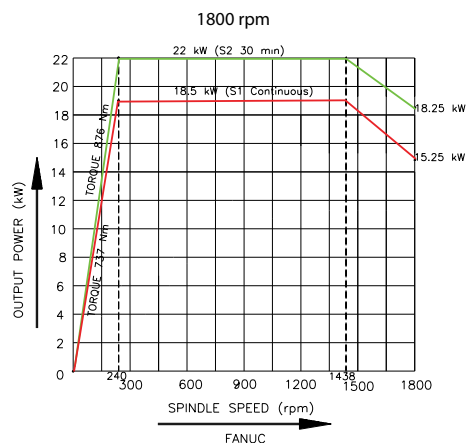


LTV 50



LTV 30 M





MATERIAL REMOVAL RATE (MRR)

MATERIAL : STEEL

OUTER DIA TURNING



Description	Unit	LTV 30
Diameter	mm	200
Cutting Speed	m/min	200
Spindle Speed	rpm	318
DOC	mm	7
Feed	mm/rev	0.25
Capacity	cc/min	350
Spindle Load	%	108
Max. Spindle Speed	rpm	2500
Spindle Base Speed	rpm	288
Spindle Power	kW	15/18.5

ACCURACY

MATERIAL : STEEL

○	Circularity	LTV 30
	Outer Diameter	2.2 μm
	Inner Diameter	2.6 μm
⊥	Perpendicularity	4 μm
⌀	Cylindricity	
	Outer Diameter	6 μm
	Inner Diameter	9 μm
▽	Surface Finish	
	Turning	1.54 Ra
	Boring	1.46 Ra
	Facing	1.20 Ra
▭	Flatness	4 μm
◎	Concentricity	8 μm

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

SPECIFICATIONS

Title	Description	Unit	LTV 30	LTV 30 PLUS	LTV 40	LTV 50	LTV 30M	LTV 50M
Capacity	Max. Swing over bed	mm	670	700	790	880	670	880
	Chuck dia.	mm	304	381	457	530	304	530
	Max. Turning Diameter	mm	500	540	600	800	394	700
	Max. Turning Length*	mm	500	770	600	800	392	650
Spindle	Spindle nose	–	A2-8		A2-11		A2-8	A2-11
	Hole through spindle	mm	56		100		56	100
	Spindle speed (maximum)	rpm	2500		1800		2500	1800
	Spindle motor power (Cont./30 min)	kW	15/18.5		18.5/22		15/18.5	18.5/22
Feed System	Cross travel X-axis	mm	275	320	370	445	275	428
	Longitudinal travel Z-axis	mm	560	820	700	837	465	700
	Rapid traverse rate X/Z axes	m/min	20/20	20/24	20/20	20/12	20/20	20/12
Turret	No. of stations	nos.	8				12	
	Tool shank size	mm	25 × 25	32 × 32	25 × 25	32 × 32	25 × 25	32 × 32
	Max. Boring bar dia.	mm	50				40	60
	Rotary Tool Spindle Speed	rpm	–	–	–	–	5000	3000
	Rotary Tool Motor Power	kW	–	–	–	–	4.5	5.5
	Max. drill dia.	mm	–	–	–	–	20	26
	Max. tap	–	–	–	–	–	M16	M20
	Turret indexing	–	Bi-directional				Servo	
	Indexing Time (per station)	Sec.	1.5				1 to 1.5	
CNC System	Controller	–	Fanuc					
Power Supply	Power Requirement	kVA	32		35	38	38	43
Machine Size	Front x Side x Height	mm	1830 × 2226 x 2945	2168 × 3025 x 3085	2162 × 2245 x 3170	2342 × 2600 x 4555	1830 × 2226 x 2945	2342 × 2600 x 4555
	Weight (Approx.)	Kg	6600	7500	7000	12000	6600	12000

Note: *May vary depending upon make / model of chuck.

LTV SERIES

BASIC
INFORMATION

DIAGRAMS

SPECIFICATIONS

APPLICATIONS

www.lmwcnc.com



INDIA'S FINEST
RANGE OF CNC MACHINES

FOLLOW US ON:



LMW CNC



INTEGRATED SOLUTIONS



LAKSHMI MACHINE WORKS LIMITED

MACHINE TOOL DIVISION

Arasur, COIMBATORE - 641 407, Tamil Nadu, India.

Tel: +91 422 719 1393 / 1394 / 1395 / 1396 / 1397