



- Quality Is Our Nature
- In Search of Excellence
- LEADWELL Leads the Industry in Taiwan, in the World

**LEADWELL**  
LEADWELL CNC MACHINES MFG., CORP.



**LEADWELL CNC MACHINES MFG., CORP.**



NO.23, Gong 33th Road, Taichung Industrial Park  
Taichung 407, Taiwan  
TEL: 886-4-23591880  
FAX: 886-4-23592555, 23593875  
E-mail: sales@leadwell.com.tw

**www.leadwell.com.tw**

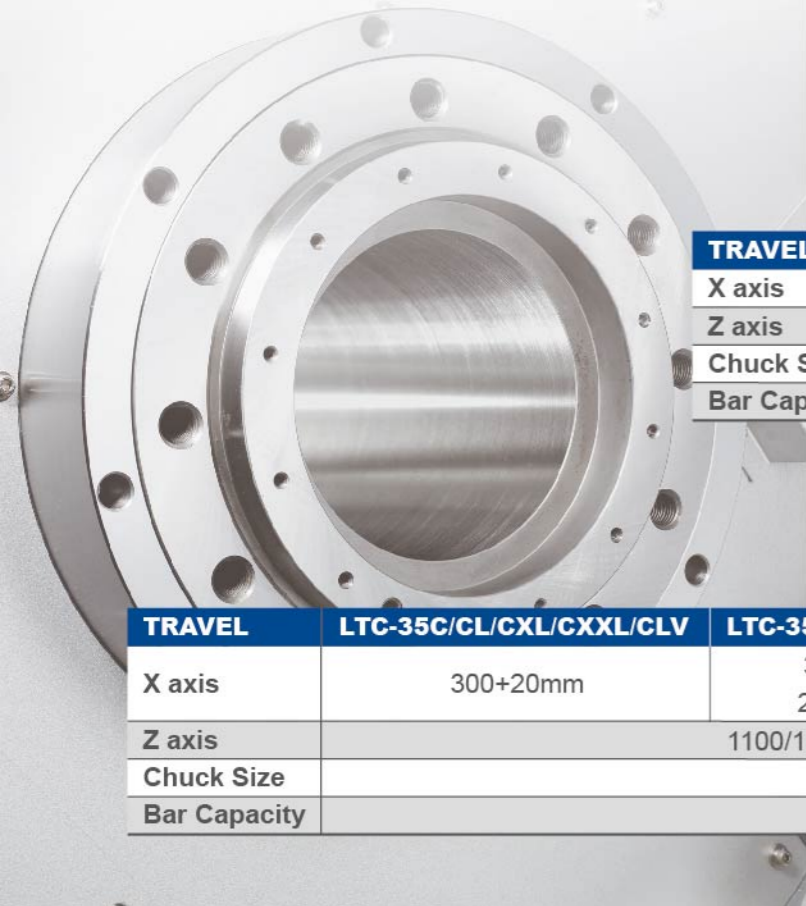
※ All performance are based on 220V/3PH/60HZ. Specification are subject to change without notice.

***LTC Series***

**CNC TURNING CENTER  
LTC-30i/35/50/60 series**

# CNC TURNING CENTER

## Innovative Design Productivity and Profitability



TRAVEL	LTC-30i	LTC-30iL	LTC-30iXL
X axis	275+20mm	275+20mm	275+20mm
Z axis	1050mm	1550mm	2050mm
Chuck Size	12	12	12
Bar Capacity	103mm	103mm	103mm

TRAVEL	LTC-35C/CL/CXL/CXXL/CLV	LTC-35M/LM/XLM/XXLM/LVM	LTC-35Y/LY/XLY/XXLY/LVY
X axis	300+20mm	344+10mm VDI60 290+20mm BMT75	215+25mm
Z axis	1100/1600/2100/3100/4100mm		
Chuck Size	15		
Bar Capacity	115mm		

# CNC TURNING CENTER

## MORE POWERFUL

- Powerful main spindle 30-50HP
- Rigid 45° slanted cast iron base

## INCREASED CAPACITY

- 12(on LTC-30i)/15(on LTC-35)/18(on LTC-50)/21(on LTC-60) inch chuck standard
- $\Phi$  103(on LTC-30i)/115(on LTC-35)/117mm(on LTC-50.60) bar capacity standard

## FASTER/MORE PRODUCTIVE

- Fast rapid rates X axis: 15m/min, Z axis: 20 m/min
- Spindle speed 1500-2500 rpm
- C axis and VDI 60 & BMT 75 live tooling version available

## ERGONOMIC CONSIDERATIONS

- Easy to use membrane touch-pad control station
- Easy moving operator door
- No chip or coolant leaks  
Parts catcher available

## Precision Rigid Spindle



- Air jet around spindle nose
- Wide bearing spacing for high rigidity
- Special heat treatment for crucial components
- Highly accurate draw tube mechanism
- Precision Labyrinth seal
- Large diameter quill for high rigidity
- Optimum spacing of front bearings to spindle nose for highest rigidity

TRAVEL	LTC-50C/CL/CXL/CXXL	LTC-50M/LM/XLM/XXLM	LTC-50Y/LY/XLY/XXLY
X axis	400+25mm	437+18mm VDI60 430+25mm BMT75	240+10mm
Z axis	1100/2100/3100/4100mm		
Chuck Size	15/18		
Bar Capacity	117mm		

TRAVEL	LTC-60CXL/CXXL	LTC-60XLM/XXLM	LTC-60XLY/XXLY
X axis	400+28mm	437+18mm VDI60 430+25mm BMT75	320+10mm
Z axis	5000/6000mm		
Chuck Size	21		
Bar Capacity	117mm		



# CNC TURNING CENTER

## LEADWELL APPLIES ADVANCED CONCEPTS TO CREATE PERFECTION IN STRUCTURAL DESIGN.

- LEADWELL uses only top quality well-ribbed castings.
- Finite Element Analysis (FEA) is used on each new casting to determine the size and location of all internal ribs ensuring high torsional stiffness and minimum vibration.
- The cast iron base, saddle, headstock, slide and tailstock are ruggedly constructed for superior stability and machining accuracy.

## EXTRA WIDE SPAN FOR INCREASED STABILITY

- The LTC series utilizes oversized box ways for high horse power machining. The extremely rigid body base frame with box ways provides outstanding stability for precision turning.

## 45° MASSIVE SLANT BED

### Easy Chip Disposal

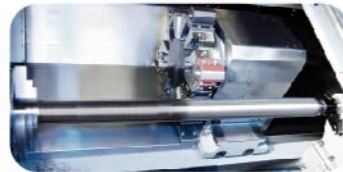
- The 45° degree slant bed design allows chips to fall directly into the chip tank, avoiding accumulation inside the machine.
- The chip tank employs large wheels, making it easy to move for chip removal and cleaning.
- Chain-type chip conveyor (optional) available on all models.



1. Hydraulic Turret+120mm(O.D.) anti-vibration tool holder
2. Z1 axis travel: 1800mm; Z2 axis travel:2550mm
3. FRU-B4 Programmable hydraulic steady rest
4. MT-5 Programmable tailstock
5. Rolling control panel +4mm door width



Power Turret available

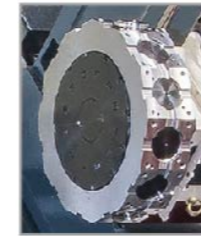


Max. turning diameter 600mm



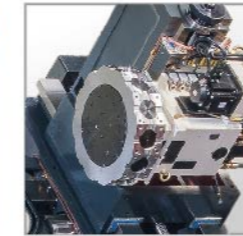
1. 1.5" chuck +tool setter
2. Spindle speed: 2000rpm
3. Bar capacity: 115mm
4. Anti-vibration tool holder+ 10 bar high pressure pump + CTS

# CNC TURNING CENTER



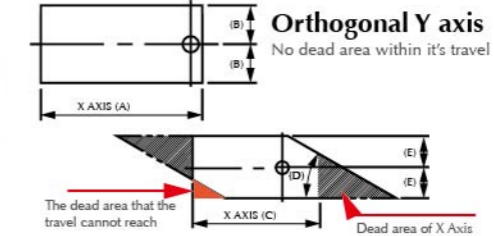
## RIGID POWER TURRET

Available for Non Live Turret and Live Turret + Y axis



## Orthogonal Y axis Explanation

Y axis is orthogonal placed on the X axis to ensure the full range of travel and to maximize the machining purposes.



**Virtual Y axis**  
There will be dead area within it's travel, and requires complex programs.

	LTC-35 SERIES	LTC-50/60 SERIES
A	225	330
B	50	100
C	225	300
D	30	45
E	50	100

## LTC-35XXLY



## HEADSTOCK

- The headstock is a thermally symmetric design with heat dissipating fins for effectively increasing heat dissipation effect. This design prevents thermal distortion during long machining cycles.

## SUB-SPINDLE

- The sub-spindle replaces the standard tailstock on turning centers. A position Czi sensor is attached to the sub-spindle so the sub-spindle can then be synchronized with the main spindle. Special software allows the work piece to be transferred from the main spindle to the sub-spindle at any speed for secondary machining operations. This eliminates the need for operator intervention.
- Allow machining on both ends of workpiece.

## C-Axis option

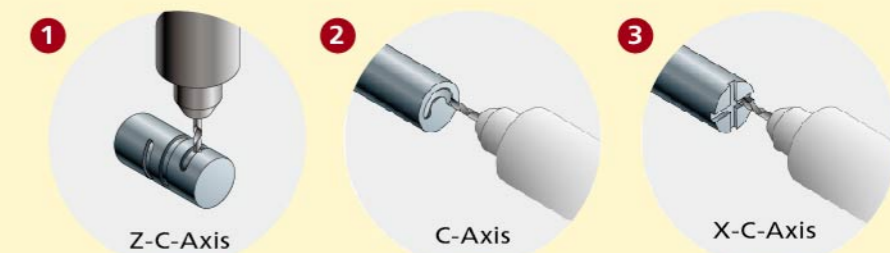
By synchronizing the optional C Axis with the live tooling, machining of cylindrical cams and other complex work pieces becomes easy, saving time and money for each part.

The headstock spindle becomes a fully programmable servo axis with the C-Axis option.

- C Axis index resolution: 0.001 degrees
- Max. C-axis speed: 40 rpm
- Switching between normal turning & synchronization with live tooling takes less than 1 second.

## LIVE TOOL TURRET

- Each tool can become a rotating tool for both milling and drilling operations.
- Tools can be either radially or axially oriented.



# FEA REPORT(Finite Element Analysis)

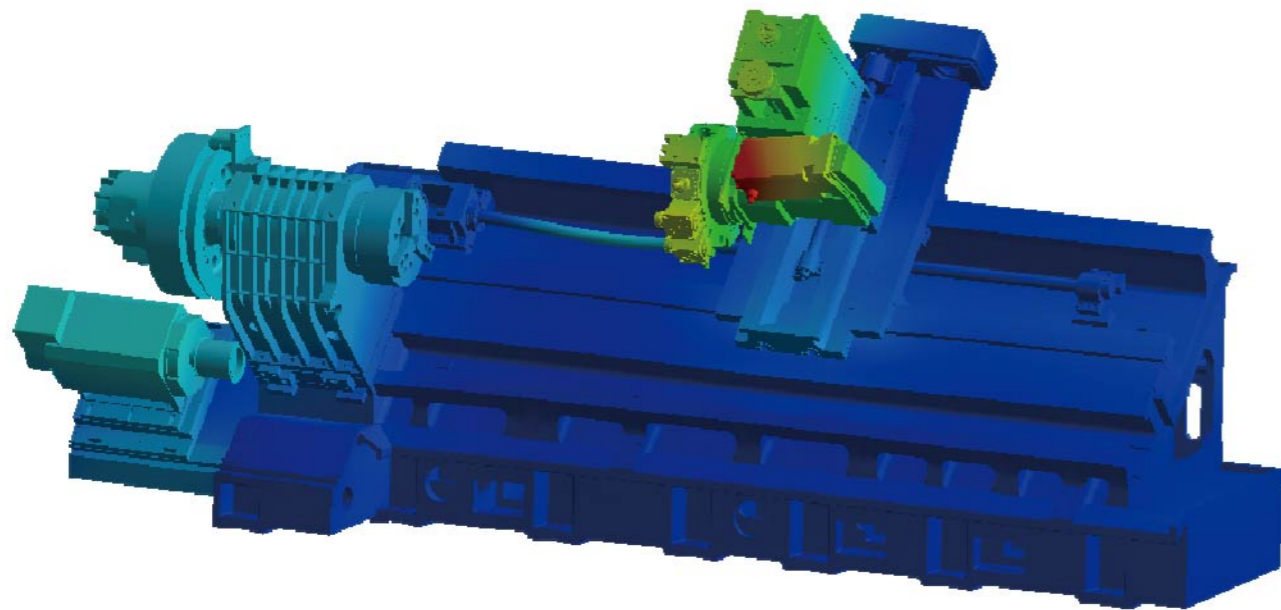
## Optimum

- Section areas
- Moments of inertia
- Torsional constant
- Plate thickness
- Bending stiffness
- Transverse shear
- Vibration reduce

## With FEA you can

1. Predict and improve product performance and reliability.
2. Reduce physical prototyping and testing .
3. Evaluate different designs and materials .
4. Optimize designs.

LTC-35XLY



## CUTTING CAPACITY

LTC-35XXM2

O.D. Cutting	
Cutting Speed	225m/min
Spindle Speed	663rpm
Feed Rate	0.4mm/rev
Depth of Cut	7mm
Removal Rate	670c.c/min

Drilling	
Tool Size	50mm
Spindle Speed	1000rpm
Feed Rate	0.18mm/rev
Depth of Cut	40mm

Groove Cutting	
Cutting Speed	140m/min
Spindle Speed	428rpm
Feed Rate	0.15mm/rev
Depth of Cut	5mm

Tapping	
Tool Size	M20
Spindle Speed	500rpm
Feed Rate	3mm/rev
Depth of Cut	25mm

# FEATURE & QUALITY



### Chuck (STD.)

Each LEADWELL lathe comes with a 3-jaw hydraulic through hole chuck.



### Double Chuck Spindle Design

It has clamping and supporting functions. Highly suitable for long tube work-pieces.



### Tool Setter (Optional)

The tool setter has a touch sensor that can measure various tool lengths and detect broken tools. It can be easily programmed to store all the tool information to reducing tool change time.

### Chuck, Air(OPT)

Single or Double



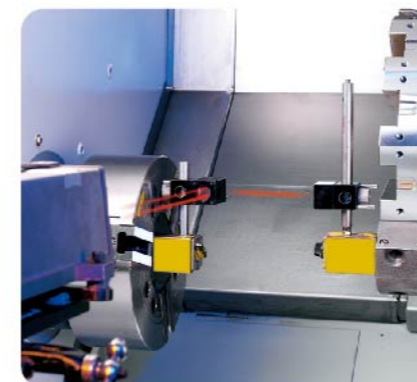
Tool Station  
12pcs(standard)



Tool Station  
12pcs(optional)



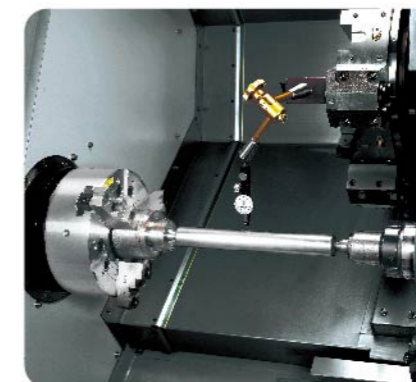
Security Auto Door  
(optional)



### LASER CALIBRATION

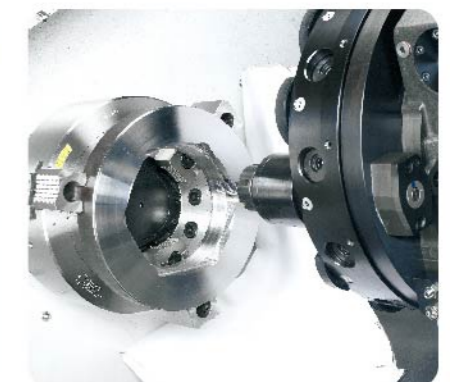
Lasers are used to measure the positioning accuracy of every machine over the full travel of each axis. Leadwell uses these measurements to compensate any axis error so that each machine meets the high accuracy requirements.

- Each machine is shipped with a positioning accuracy chart.



### MACHINE GEOMETRIC CHECKING

Precision indicators are used to verify that spindle run-out and headstock to tailstock alignment meet all specifications.



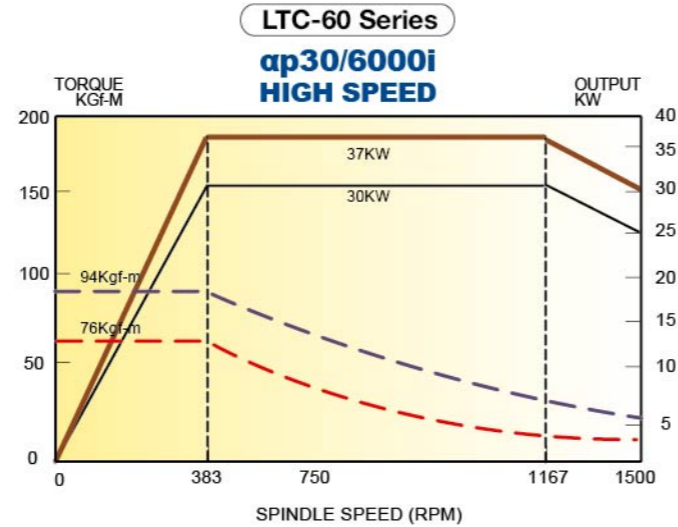
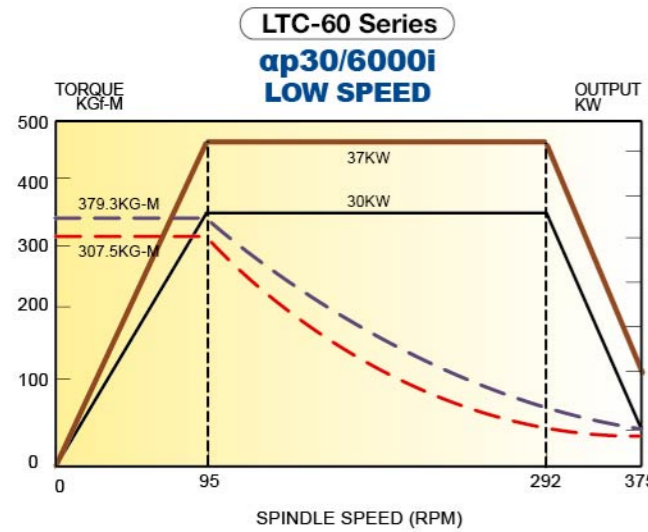
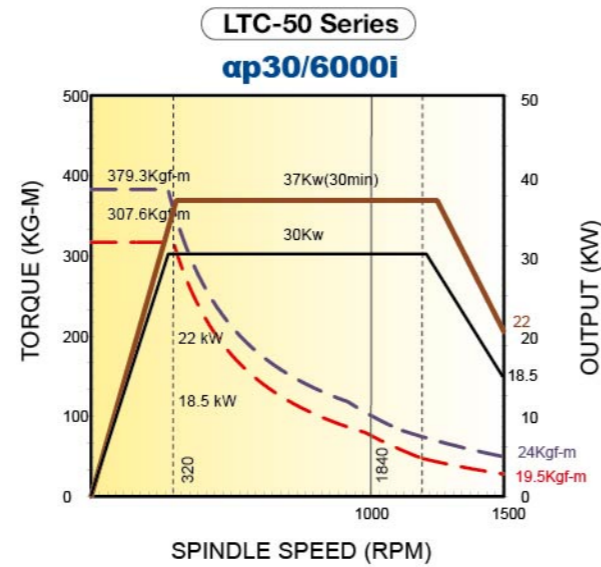
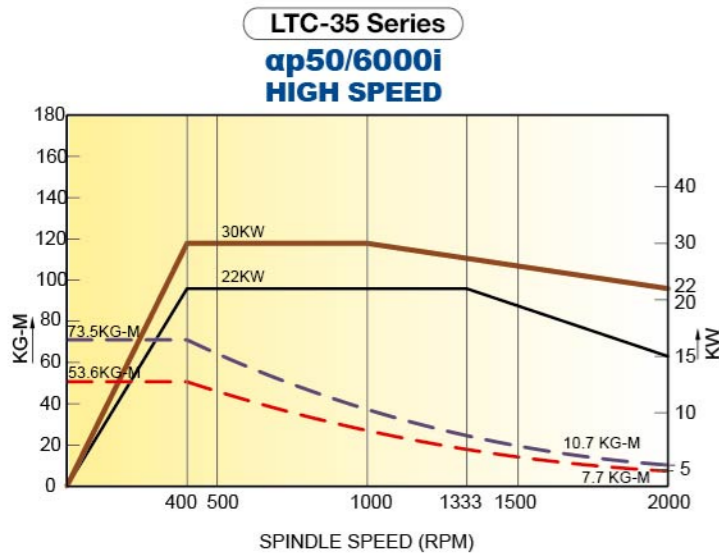
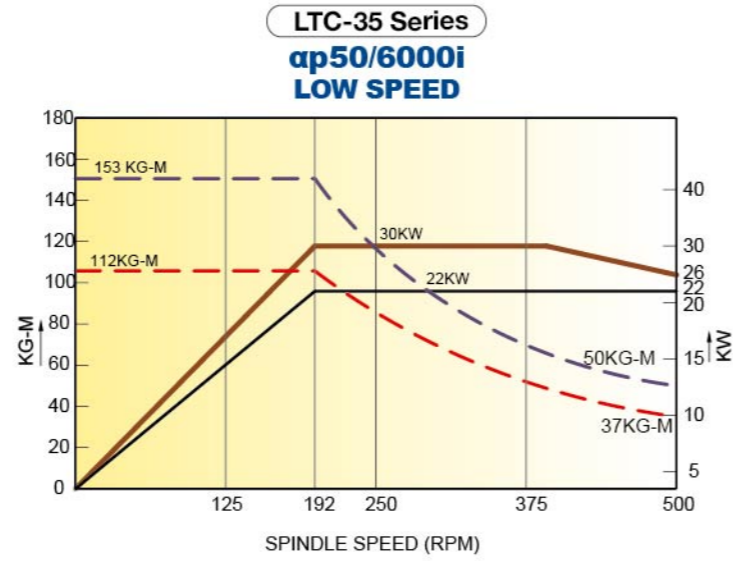
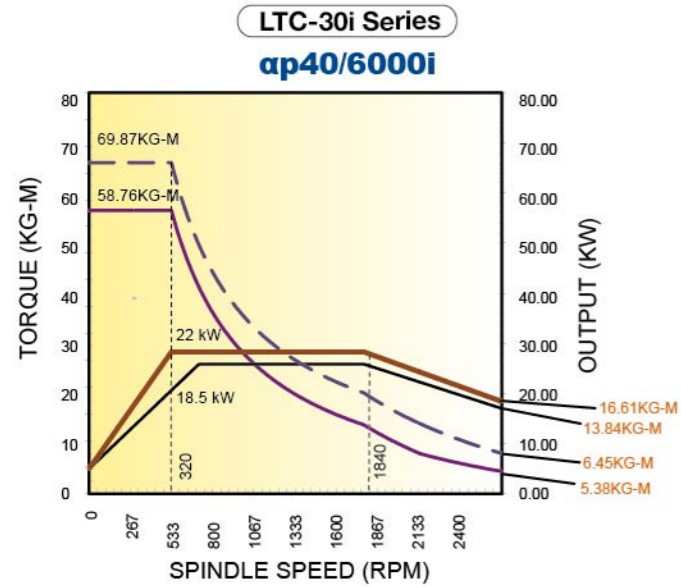
### CUTTING AND COOLANT TESTING

Each machine must complete rigorous cutting tests to ensure machine integrity. Coolant tests guarantee that all components are working properly and machines are 100% leak proof.

### 48 HRS NON-STOP RELIABILITY TEST

Each machines is cycled for 48 hrs to ensure the highest reliability

# SPINDLE POWER CURVE

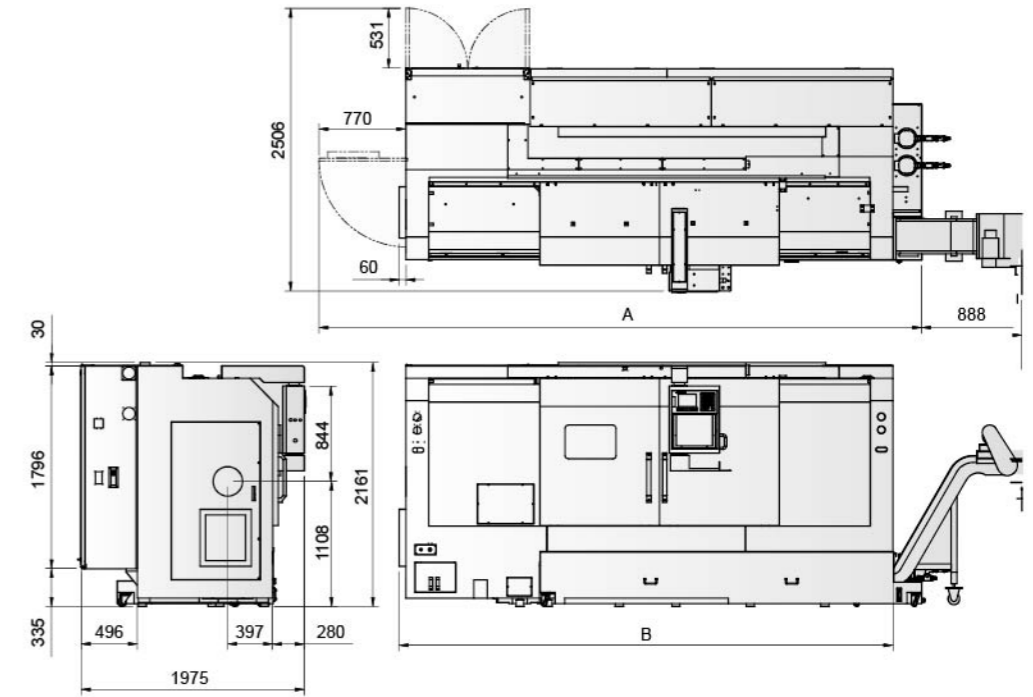


# OUTLINE DIMENSION

Unit : mm

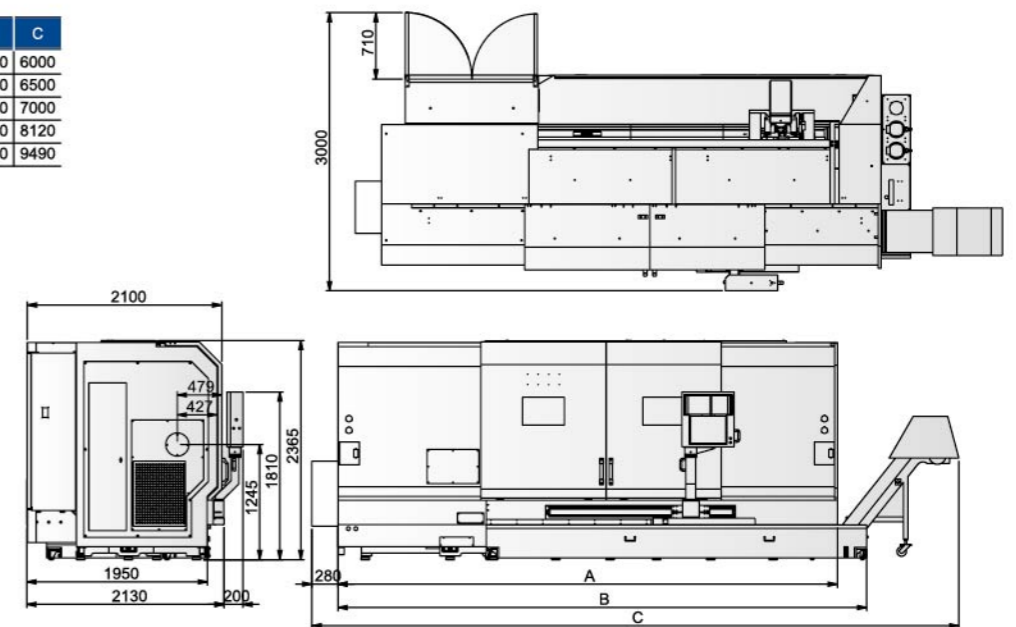
**LTC-30i Series**

MODEL	A	B
LTC-30I	4840	3871
LTC-30IL	5340	4371
LTC-30IXL	5840	4871



**LTC-35 Series**

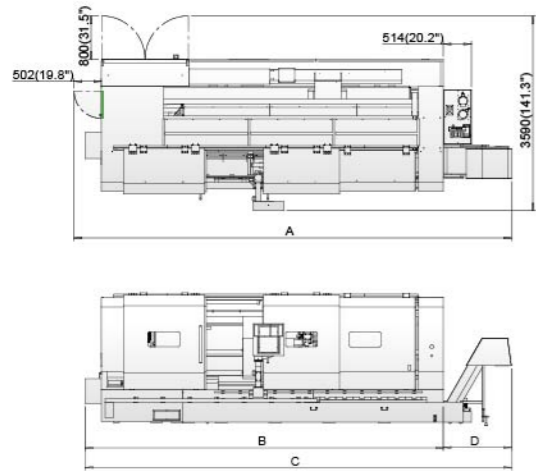
MODEL	A	B	C
LTC-35C/M/Y	4380	4700	6000
LTC-35CL/LM/LY	4880	5200	6500
LTC-35CXL/XLM/XLY	5380	5700	7000
LTC-35CXXL/XXLM/XXLY	6500	6820	8120
LTC-35CLV/LVM/LVY	7870	8190	9490



# OUTLINE DIMENSION

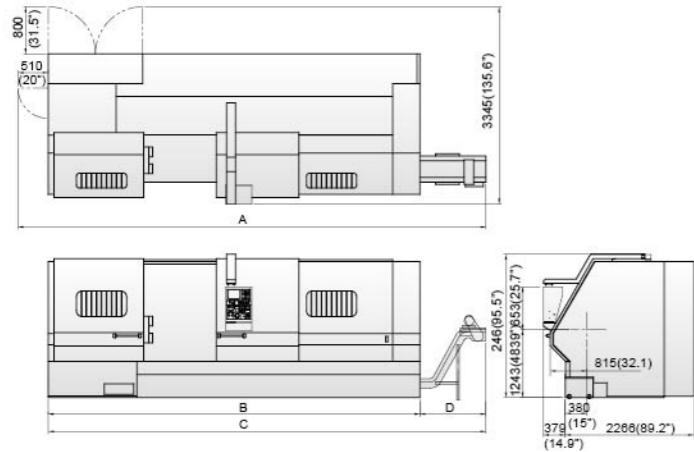
Unit:mm

## LTC-50 Series

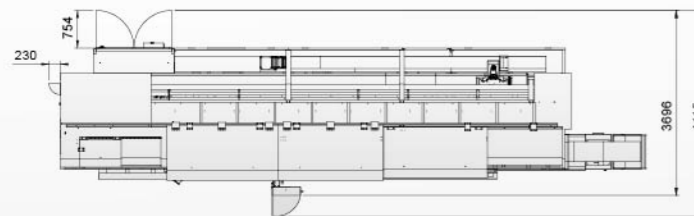


MODEL	A	B	C	D
LTC-50C/M/Y	6077 (239.3")	4616 (181.7")	5867 (231")	1251 (49.3")
LTC-50CL/LM/LY	7067 (278.2")	5606 (220.7")	6857 (270")	1251 (49.3")
LTC-50CXL/XLM/XLY	8049 (316.9")	6596 (259.7")	7847 (309")	1251 (49.3")
LTC-50CXXL/XXLM/XXLY	10060 (396.1")	7950 (313.0")	9550 (376")	1600 (63.0")

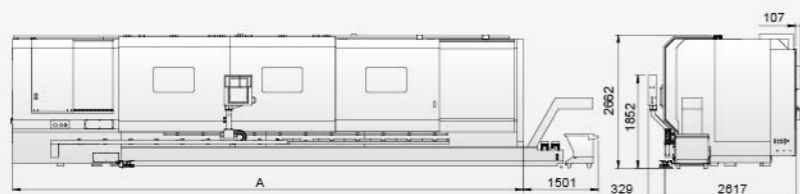
## LTC-60 Series



MODEL	A	B	C	D
LTC-60 CXL	11010 (433.5")	9090 (357.9")	10500 (413.4")	1410 (55.5")
LTC-60 CXXL	12100 (476.4")	10250 (401.7")	11590 (456.3")	1410 (55.5")

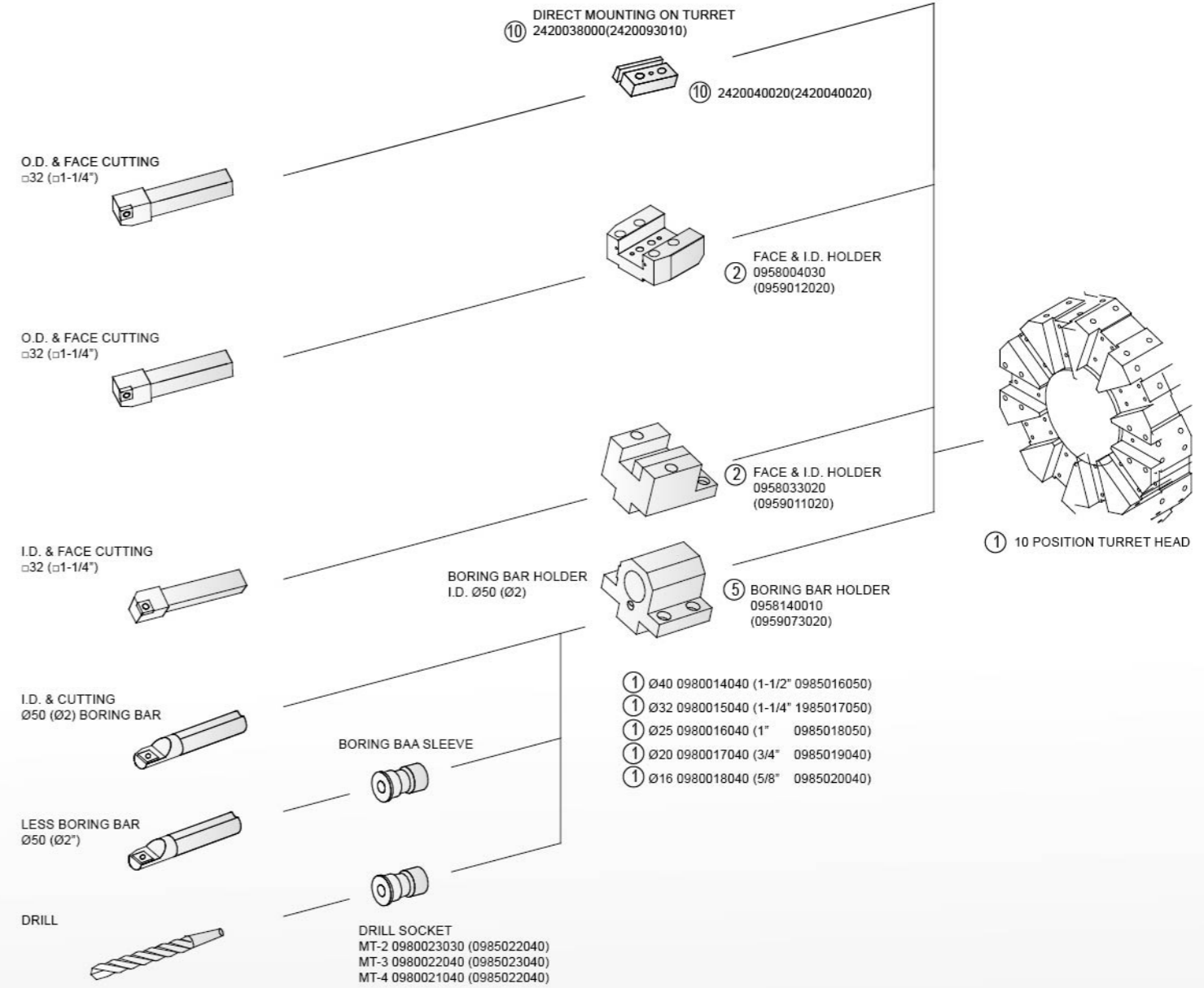


MODEL	A
LTC-60XLY	9113
LTC-60XXLY	10203



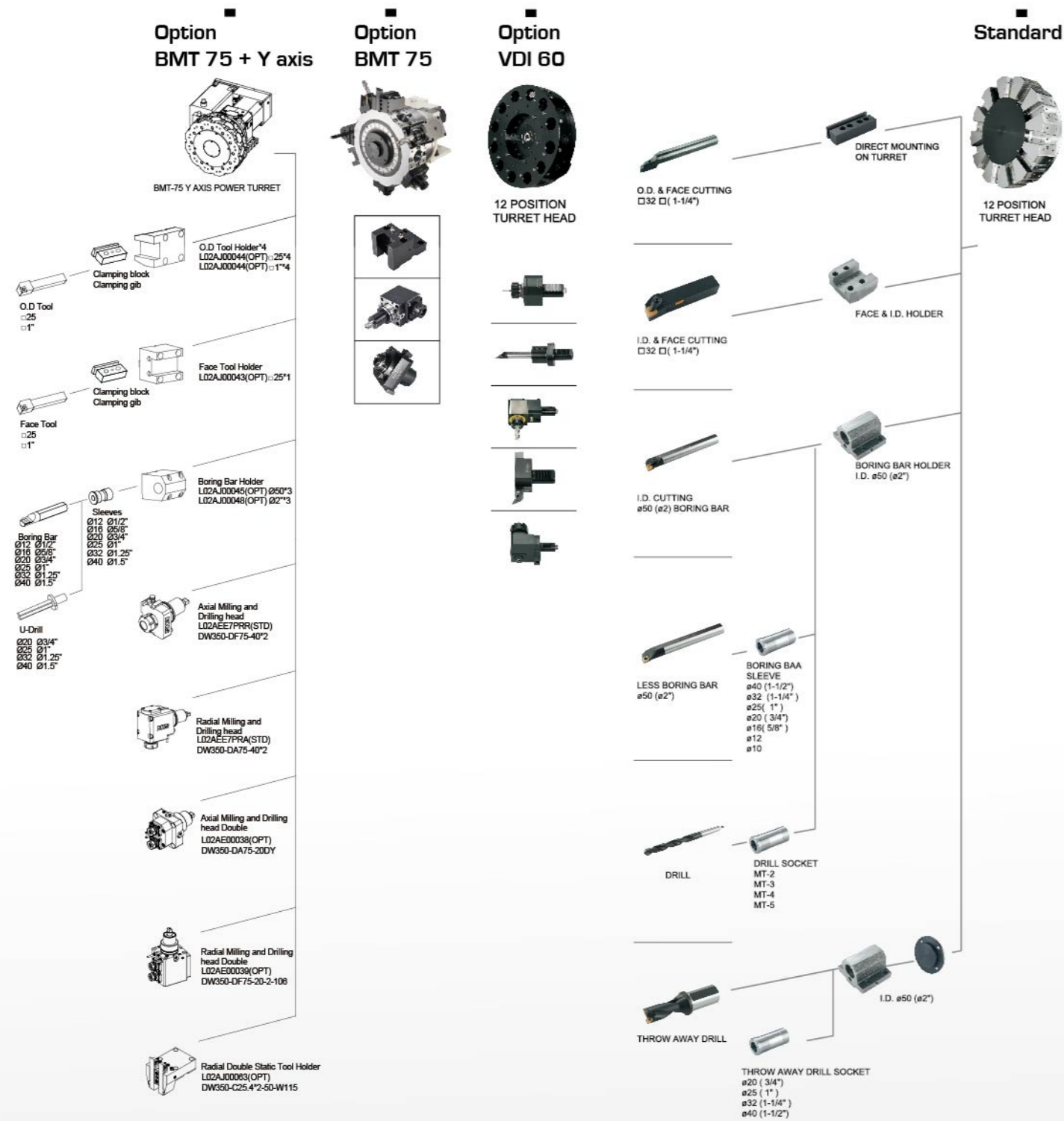
# TOOLING SYSTEM

## LTC-30i Series



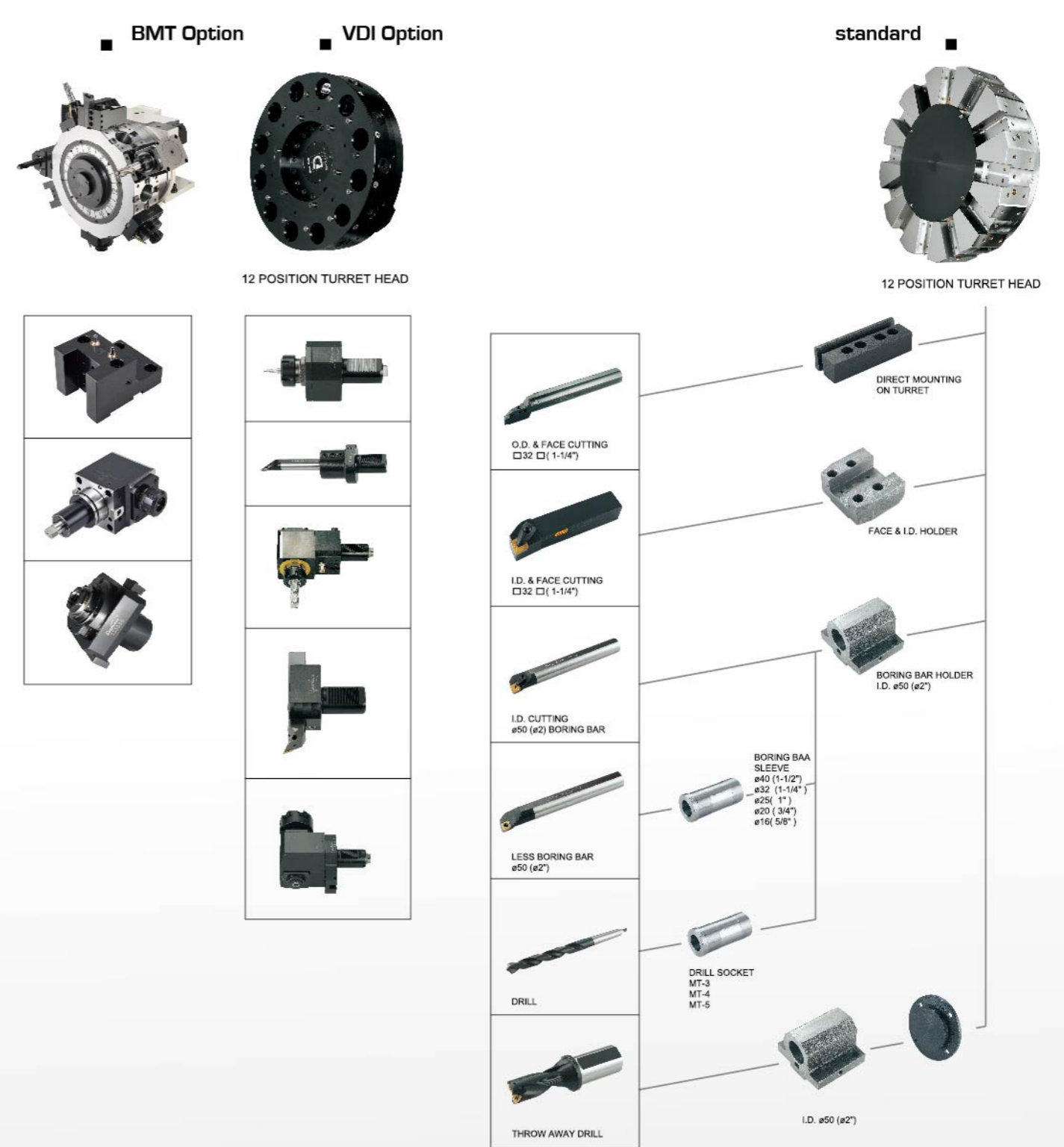
# TOOLING SYSTEM

## LTC-35 Series



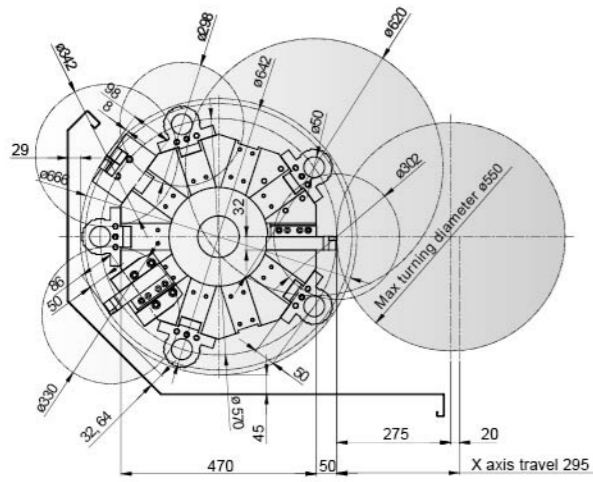
# TOOLING SYSTEM

## LTC-50/60 Series



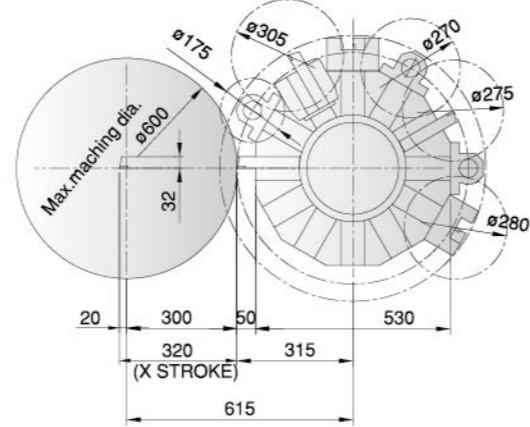
# TOOLING INTERFERENCE

## LTC-30i Series

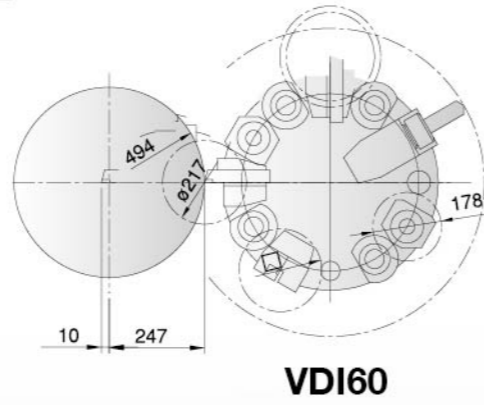
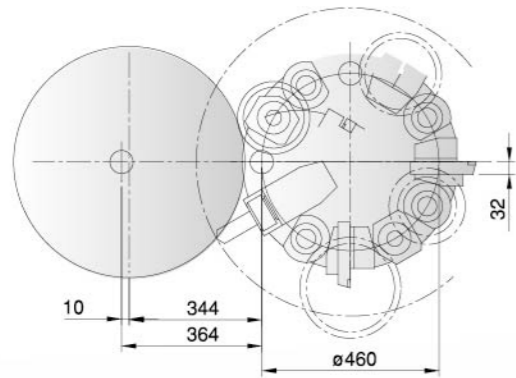


## LTC-35 Series

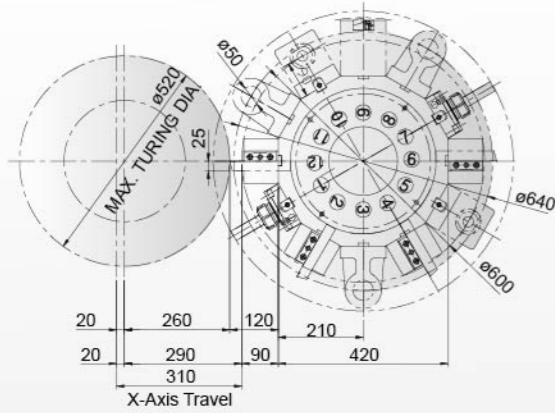
Unit:mm



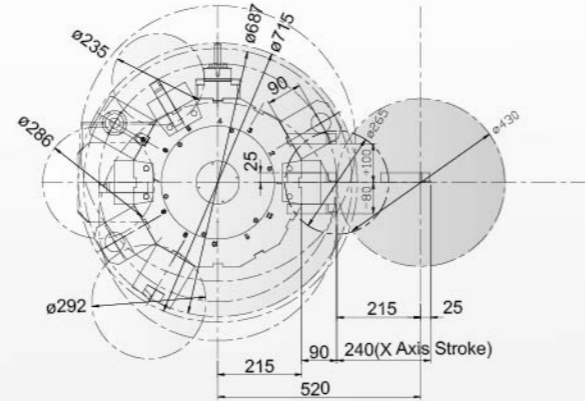
## LTC-35 Series



VDI60



BMT 75

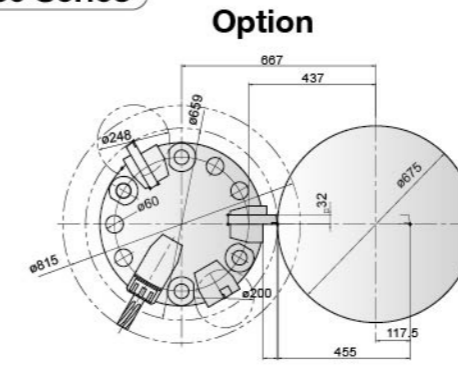


BMT 75+Y axis

# TOOLING INTERFERENCE

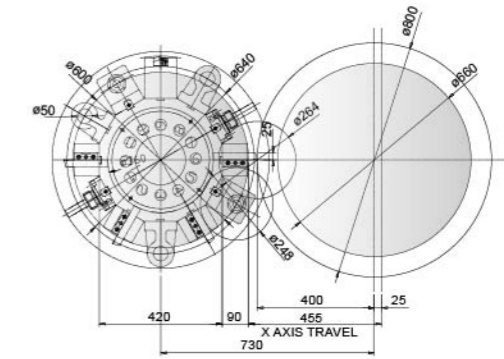
## LTC-50 Series

Unit:mm

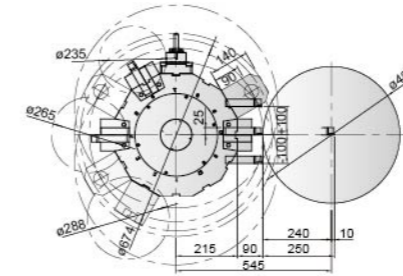


### Option

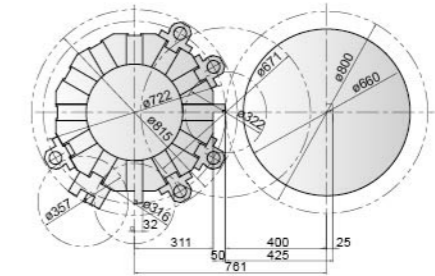
VDI 60



BMT 75



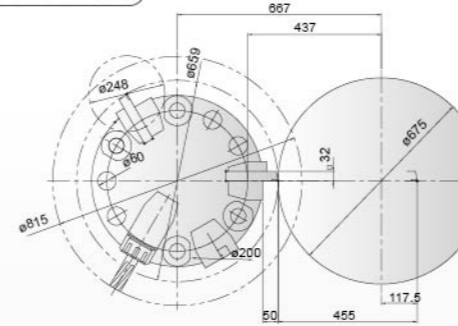
BMT 75+ Y axis



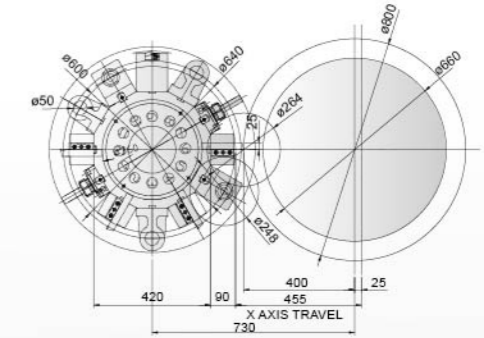
STANDARD

## LTC-60 Series

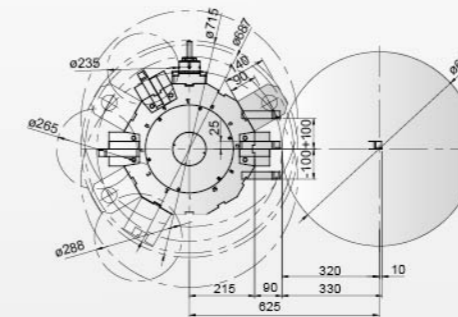
### Option



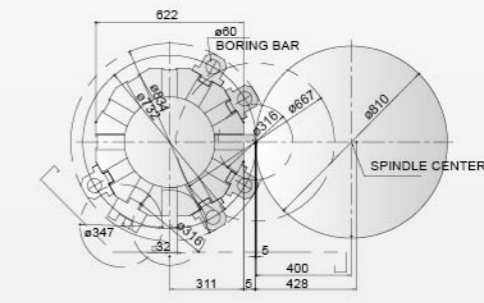
VDI 60



BMT 75



BMT 75+Y axis

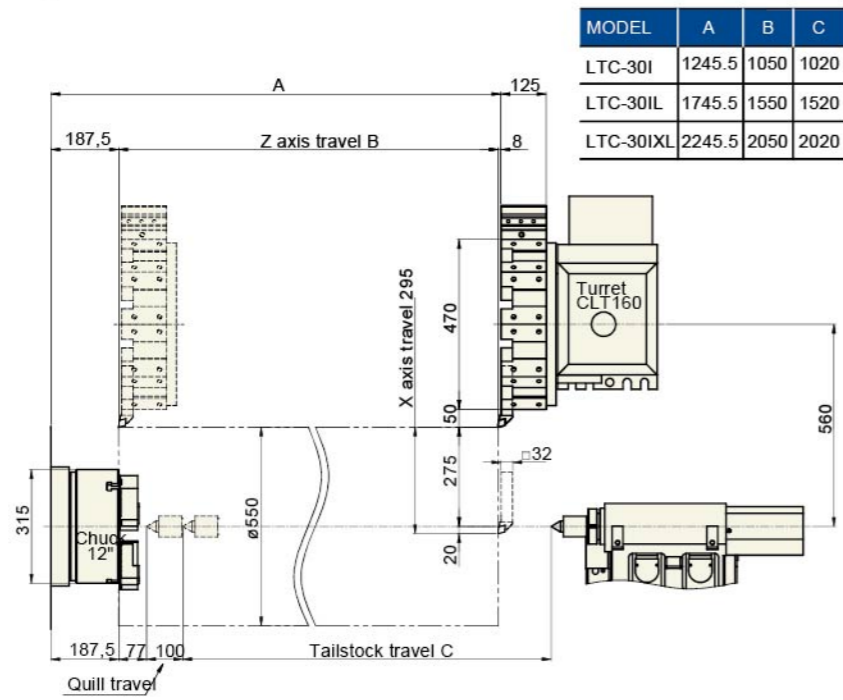


STANDARD

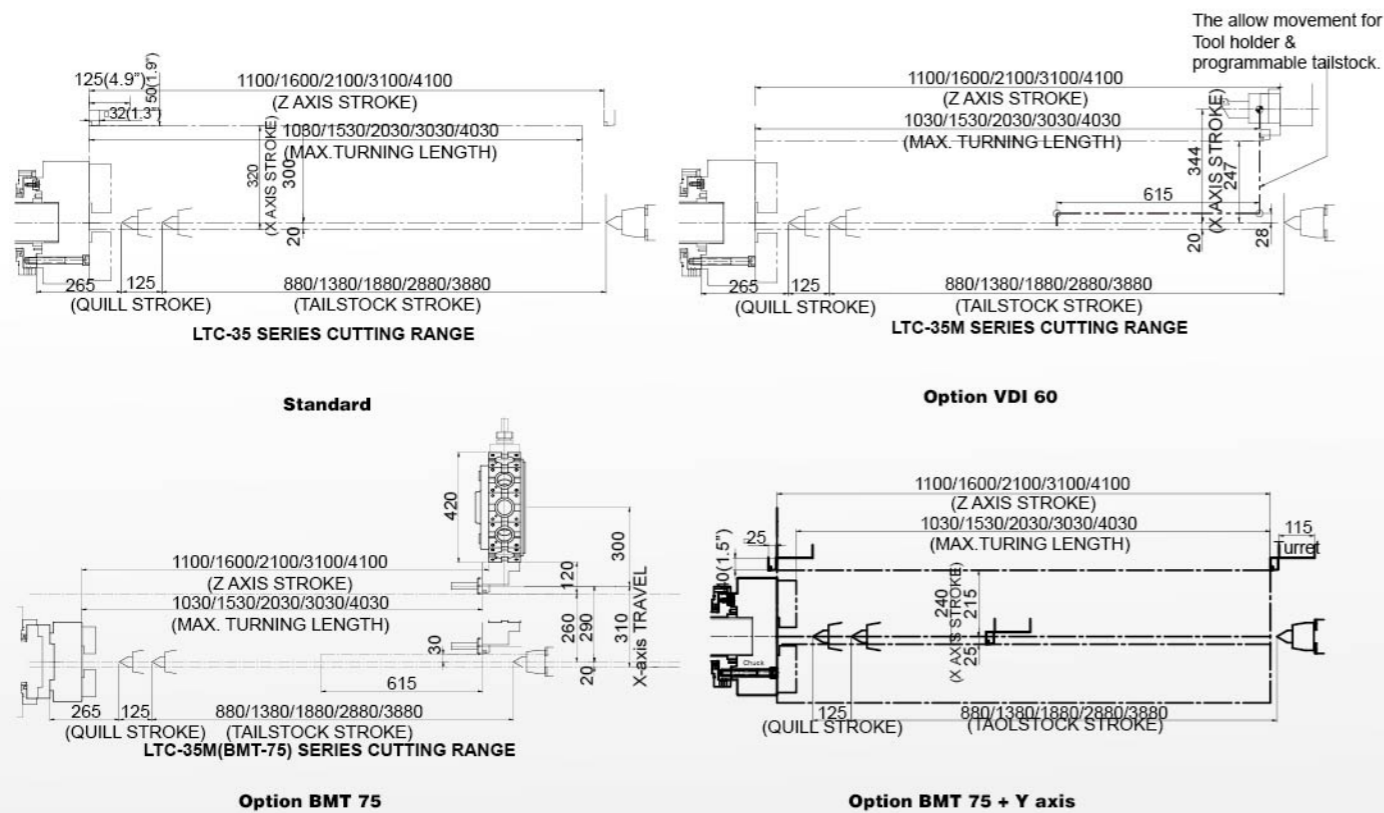


# WORKING CAPACITY

## LTC-30i Series

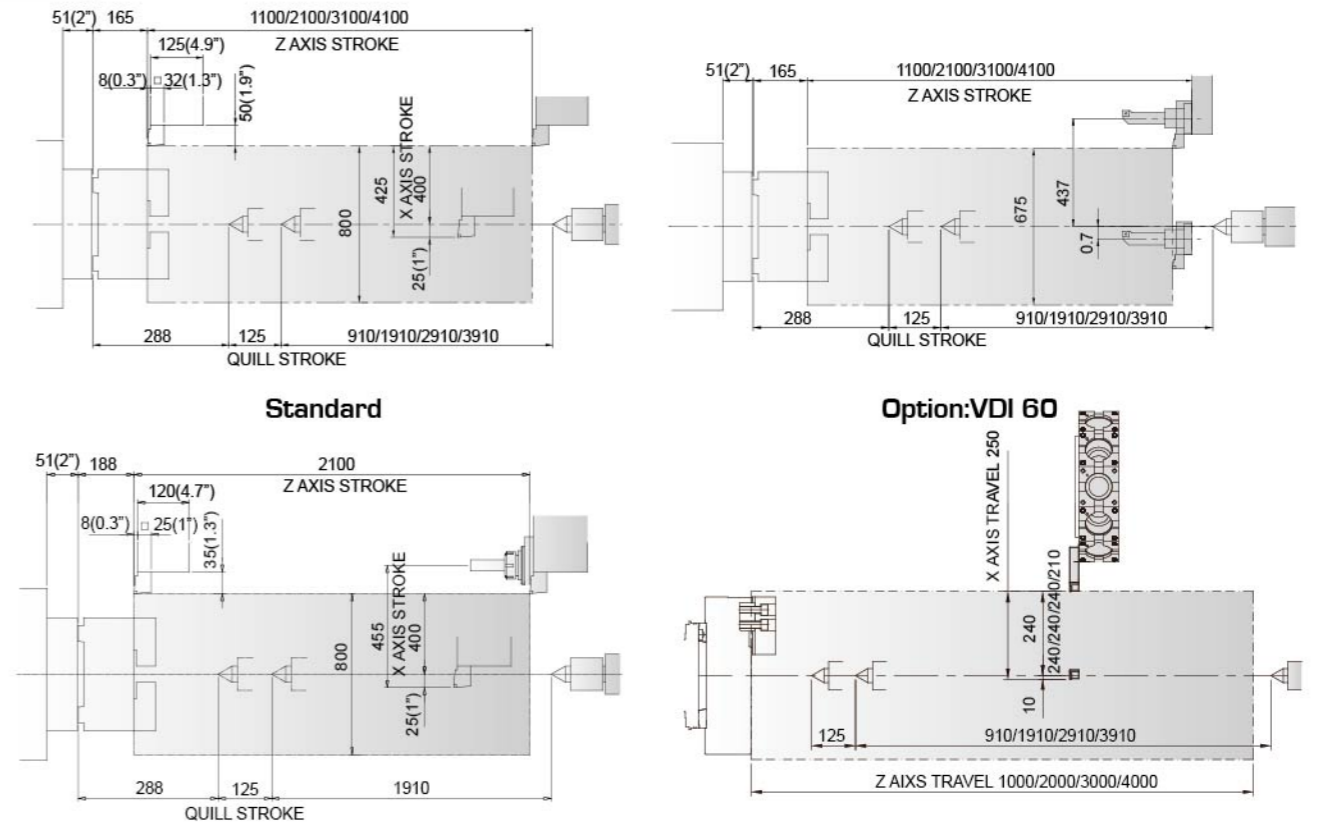


## LTC-35 Series

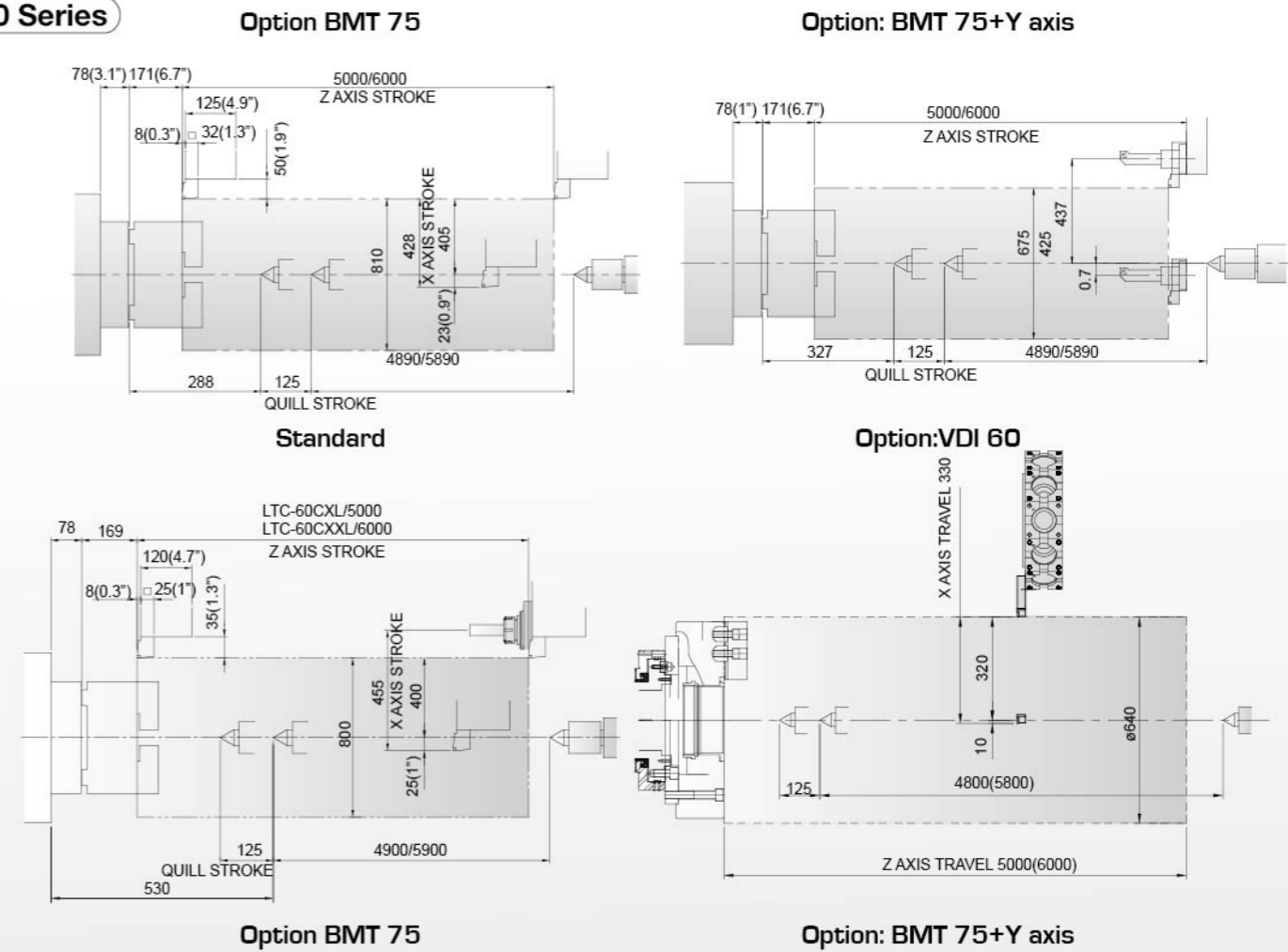


# WORKING CAPACITY

## LTC-50 Series



## LTC-60 Series



# MACHINE SPECIFICATIONS

ITEM	MODEL	LTC-30i	LTC-30iL	LTC-30iXL
<b>CAPACITY</b>		Unit		
Max. swing	mm (in)	750(29.5)		
Max. turning diameter	mm (in)	550(21.6)		
Max. turning length	mm (in)	1000(39.3)	1500(59)	2000(78.7)
Bar capacity	mm (in)	103(4)		
<b>TRAVEL</b>				
X axis travel	mm (in)	275+20(10.8+0.78)		
Z axis travel	mm (in)	1050(41.3)	1550(61)	2050(80.7)
<b>SPINDLE</b>				
Spindle speed	rpm	35-2500		
Chuck size	in	12		
Type of spindle nose		A2-11		
Spindle motor power	kw(hp)	22(29.5)		
<b>TURRET</b>				
Number of tool stations	pcs	10		
Shank height for square tool	mm (in)	□32(1.25)		
Shank diameter for boring bar	mm (in)	ø50(2)		
<b>FEED RATE</b>				
X/Z axis rapid traverse	m(in)/min	15/20(590.5/787.4)		
<b>FEED MOTORS</b>				
X/Z axis motor	kw(hp)	3/4(4/5.4)		
<b>TAILSTOCK</b>				
Quill diameter	mm (in)	100(3.9)		
Quill inside taper	M.T	5		
<b>MACHINE SIZE</b>				
Height of machine (H)	mm (in)	2165(85.2)		
Floor space (LXW)	mm (in)	4130X1980(162.9X77.9)	4630X1980(182.3X77.9)	5130X1980(202X77.9)
Total machine weight	kg	7200	8200	9200
Power requirement	KVA	40		
Controller	FANUC	Oi-T		

## Control Panel OPTION



FANUC



SIEMENS



MITSUBISHI



FAGOR

# MACHINE SPECIFICATIONS

ITEM	MODEL	LTC-35C/CL/CXL/CXXL/CLV	LTC-35M/LM/XLM/XXLM/LVM	LTC-35Y/LY/XLY/XXLY/LVY
<b>CAPACITY</b>		Unit		
Max. swing	mm(in)	800(31.5)		
Max. turning diameter	mm(in)	600(23.6)	494(19.4)/520(20.5) BMT 75	430(16.9)
Max. turning length	mm(in)	1030/1530/2030/3006/4006(40.6/60.2/79.9/118.3/157.7)		
Bar capacity	mm(in)	115(4.5)		
<b>TRAVEL</b>				
X axis travel	mm(in)	300+20(11.8+0.78)	344+10(13.5+0.39)/290+20(11.4+0.8)	215+25(8.5+1)
Z axis travel	mm(in)	1100/1600/2100/3100/4100(43/63/83/122/161)		
Y axis travel	mm(in)	---		+100/-80(3.8/-3.15)
<b>SPINDLE</b>				
Spindle speed	rpm	2000	10~2000	
Chuck size	in	15		
Type of spindle nose		A2-11		
Spindle motor power	kw(hp)	30(40)		
<b>TURRET</b>				
Number of tool stations	pcs	12		
Shank height for square tool	mm(in)	32(1.25)	32(1.25) VDI 60 / 25(1) BMT 75 OPT	25(1) BMT 75
Shank diameter for boring bar	mm(in)	50(2) /63(2.5) OPT	50(2) VDI 60/ BMT 75 OPT	50(2) BMT 75 / 63(2.5) BMT 75 OPT
Rotary tool spindle speed range: axis units	rpm	---	3000	4000
Rotary tool spindle speed range: radial units	rpm	---	3000	4000
Rotary tool motor power	kw(hp)	---	15(20)	10(13.4)
<b>FEED MOTORS</b>				
X/Z axis motor	kw(hp)	4/7(5.4/9.4)		
Y axis motor	kw(hp)	---	---	4(5.4)
<b>FEED RATE</b>				
X axis rapid traverse	m(in)/min	15(591)		
Z axis rapid traverse	m(in)/min	20/20/20/12/10 (787.4/787.4/787.4/472/393.7)		
Y axis rapid traverse	m(in)/min	---		7.5(295.3)
<b>TAILSTOCK</b>				
Quill diameter	mm(in)	110(4.3)		
Quill inside taper	M.T	5		
<b>MACHINE SIZE</b>				
Height of machine (H)	mm(in)	2310(91)	2365(93.1)	
Floor space (L)	mm(in)	4380/4880/5380/6500/7880 (172.4/192/211.8/255.9/310.2)		
Floor space (W)	mm(in)	2120(83.5)		
Total machine weight	kg	10500/11500/12500/17500/20000		13200/13800/14500/21300/23800
Power requirement	KVA	55	70	
Controller	FANUC	Oi -T		

# MACHINE SPECIFICATIONS

ITEM	MODEL	LTC-50C/CL/CXL	LTC-50CXXL	LTC-50M/LM/XLM/XXLM	LTC-50Y/LY/XLY/XXLY
<b>CAPACITY</b>		Unit		VDI 60 / BMT 75	BMT 75
Max. swing	mm(in)	900/900/850 (35.4/35.4/33.5)	850(33.4)	900/900/850/850 (35.43/35.43/33.46/33.46)	900/900/850/850 (35.43/35.43/33.46/33.46)
Max. turning diameter	mm(in)	800(31.5)	800(31.5)	675(26.6) VDI 60 800(31.5) BMT 75	480(18.89)
Max. turning length	mm(in)	1006/2006/3006 (39.6/78.9/118.3)	4006(157.7)	1006/2006/3006/4006 (39.6/78.9/118.3/157.7)	910/1910/2910/3910 (35.8/75.2/114.6/153.9)
Bar capacity	mm(in)	117(4.6)	117(4.6)	117(4.6)	117(4.6)
<b>TRAVEL</b>					
X axis travel	mm(in)	400+25(15.7+1)	400+25(15.7+1)	437+18(17.2+0.71) VDI 60 430+25(16.9+0.98) BMT 75	240+10(9.44+0.39)
Z axis travel	mm(in)	1100/2100/3100 (43.3/82.6/122)	4100(161.4)	1100/2100/3100/4100 (43.3/82.6/122/161.4)	1010/2010/3010/4010 (39.7/79.1/118.5/157.8)
Y axis travel	mm(in)	-	-	-	±100(±3.9)
<b>SPINDLE</b>					
Spindle speed	rpm	15-1500	15-1500	15-1500	15-1500
Chuck size	in	15/18		18	
Type of spindle nose		A2-11	A2-11	A2-11	A2-11
Spindle motor power	Kw(hp)	37(49.6)	37(49.6)	37(49.6)	37(49.6)
<b>TURRET</b>					
Number of tool stations	PCS	12	12	12	12
Shank height for square tool	mm(in)	32(1.26)	32(1.26)	32(1.26) VDI 60 25(1) BMT 75	25(1) BMT 75
Shank diameter for boring bar	mm(in)	50(1.9)	50(1.9)	50(1.9) VDI 60 / BMT 75	50(1.9) BMT 75
Rotary tool spindle speed range: axis units	rpm	-	-	3000	3000
Rotary tool spindle speed range: radial units	rpm	-	-	3000	3000
Rotary tool motor power	Kw(hp)	-	-	15(20) VDI 60 11(14.7) BMT 75	7.5(10)
<b>FEED RATE</b>					
X axis rapid traverse	m(in)/min	10(393.7)	10(393.7)	10(393.7)	10(393.7)
Z axis rapid traverse	m(in)/min	12(472.4)	8(314.9)	12/12/12/8 (472/472/472/314.9)	12/12/12/8 (472/472/472/314.9)
Y axis rapid traverse	m(in)/min	-	-	-	7.5(295.28)
<b>FEED MOTORS</b>					
X/Z axis motor	Kw(hp)	4/7(5.4/9.4)	4/7(5.4/9.4)	4/7 (5.4/9.4)	4/7 (5.4/9.4)
Y axis motor	Kw(hp)	-	-	-	4(5.4)
<b>TAILSTOCK</b>					
Quill diameter	mm(in)	155(6.1)	155(6.1)	155(6.1)	155(6.1)
Quill inside taper	M.T	6	6	6	6
<b>MACHINE SIZE</b>					
Height of machine (H)	mm(in)	5867/6857/7847 (230/270/308)		2442(96)	
Floor space (L)	mm(in)	9550(375)		5867/6857/7847/9550(230/270/308/375)	
Floor space (W)	mm(in)	2575(101.4)	2575(101.38)	2793(109)	
Total machine weight	Kg	15500/17500/20500		22500	
Power requirement	KVA	70	70	70	70
Controller	FANUC	0i-T			

# MACHINE SPECIFICATIONS

ITEM	MODEL	LTC-60CXL/CXXL	LTC-60XLM/XXLM	LTC-60XLY/XXLY
<b>CAPACITY</b>		Unit	VDI 60 / BMT 75	BMT 75
Max. swing	mm(in)	1020(40.16)	1020(40.16)	1020(40.16)
Max. turning diameter	mm(in)	810(31.89)	675(26.57) VDI 60 800(31.5) BMT 75	640(25.19)
Max. turning length	mm(in)	5000(196.85)/6000(236.22)	5000(196.85)/6000(236.22)	5000(196.85)/6000(236.22)
Bar capacity	mm(in)	117(4.6)	117(4.6)	117(4.6)
<b>TRAVEL</b>				
X axis travel	mm(in)	400+28(15.75+1.1)	437+18(17.2+0.71) VDI 60 430+25(16.9+0.98) BMT 75	320+10(12.59+0.39)
Z axis travel	mm(in)	5000(196.85)/6000(236.22)	5000(196.85)/6000(236.22)	5000(196.85)/6000(236.22)
Y axis travel	mm(in)	-	-	±100(±3.9)
<b>SPINDLE</b>				
Spindle speed	rpm	1500	1500	1500
Chuck size	in	21		
Type of spindle nose		A2-15	A2-15	A2-15
Spindle motor power	Kw(hp)	37(49.6)	37(49.6)	37(49.6)
<b>TURRET</b>				
Number of tool stations	PCS	12	12	12
Shank height for square tool	mm(in)	32(1.25)	32(1.25) VDI 60/ BMT 75	25(1)
Shank diameter for boring bar	mm(in)	60(2.36)	50(2) VDI 60 / BMT 75	50(2)
Rotary tool spindle speed range: axis units	rpm	-	3000	4000
Rotary tool spindle speed range: radial units	rpm	-	3000	4000
Rotary tool motor power	Kw(hp)	-	15(20)	7.5(10)
<b>FEED RATE</b>				
X axis rapid traverse	m(in)/min	10(393.7)	10(393.7)	10(393.7)
Z axis rapid traverse	m(in)/min	12(472.44)	12(472.44)	12(472.44)
Y axis rapid traverse	m(in)/min	-	-	7.5(295.2)
<b>FEED MOTORS</b>				
X/Z axis motor	Kw(hp)	4/7(5.4/9.4)	4/7(5.4/9.4)	4/7(5.4/9.4)
Y axis motor	Kw(hp)	-	-	1.6(2.1)
<b>TAILSTOCK</b>				
Quill diameter	mm(in)	165(6.5)	165(6.5)	165(6.5)
Quill inside taper	M.T	6	6	6
<b>MACHINE SIZE</b>				
Height of machine (H)	mm(in)	2426(95.51)	2426(95.51)	2426(95.51)
Floor space (L)	mm(in)	9090/10205(357.78/401.77)	9090/10205(357.78/401.77)	9090/10205(357.78/401.77)
Floor space (W)	mm(in)	2700(106.3)	2700(106.3)	2700(106.3)
Total machine weight	Kg	27500/32500		
Power requirement	KVA	70		
Controller	FANUC	0i-T		

## MACHINE ACCESSORIES

ITEM	MODEL	LTC-30I/L/DXL	LTC-35C/CL/CXL/CXXL/CLV	LTC-35M/LM/XLM/XXLM/LVM	LTC-35Y/LY/XLY/XXLY/LVY
Alarm lamp		■	■	■	●
Auto door		▲	■	■	■
Air conditioner		▲	■	■	●
Automatic workpiece measurement		▲	▲	▲	▲
Buzzer		●	●	●	●
Bar feeder		▲	X	X	X
C axis and driven		X	X	●	●
Chip conveyer		■	■	■	■
Chip bucket		■	■	■	■
Electric high/low gear control		X	●	●	●
Full enclosed splash guard		●	●	●	●
Foot switch		●	●	●	●
High pressure pump		■	■	■	■
H.T.D belt		●	■	■	■
Heat exchanger		●	●	●	■
Inch disc		▲	■	X	X
Linear scale		X	■	■	■
Manual steady rest		X	■	■	■
Mist separator		X	■	■	■
Metric disc		●	●	●	●
Oil skimmer		■	■	■	■
Programmable tailstock		X	●	●	●
Parts catcher		▲	▲	▲	▲
Rotating tailstock		X	■	■	■
Robot		▲	▲	▲	▲
Spindle air outer blow		■	■	■	■
Spindle air inner blow		▲	X	X	X
Transformer		■	■	■	■
Two speed gearbox		X	■	■	■
Tool setter		X	■	■	■
VDI disc		▲	■	●	▲
V-belt		X	●	●	●
3 jaw close center chuck		▲	■	■	■
3 jaw open center chuck		●	●	●	●

●: STD / ■: OPT(DESIGNED) / ▲: OPT(TO BE ADVISED) / X: N/A(NOT AVAILABLE)

## MACHINE ACCESSORIES

ITEM	MODEL	LTC-50C/CL/CXL/CXXL	LTC-50M/LM/XLM/XXLM	LTC-50Y/LY/XLY/XXLY	LTC-60CXL/CXXL	LTC-60XLM/XXLM	LTC-60XLY/XXLY
Alarm lamp		●	●	■	■	■	■
Auto door		▲	▲	▲	▲	▲	X
Air conditioner		●	●	●	●	●	●
Automatic workpiece measurement		▲	▲	▲	▲	▲	▲
Buzzer		●	●	●	●	●	●
Bar feeder		X	X	X	X	X	X
Chip conveyer		●	■	■	●	●	●
Chip bucket		●	■	■	■	■	■
Full enclosed splash guard		●	●	●	●	●	●
Foot switch		●	●	●	●	●	●
High pressure pump		■	■	■	■	■	■
H.T.D belt		●	●	●	●	●	●
Heat exchanger		▲	▲	▲	▲	▲	▲
Linear scale		■	■	■	■	■	■
Manual steady rest		■	■	■	■	■	■
Mist separator		■	■	■	■	■	■
Oil skimmer		■	■	■	■	■	■
Programmable tailstock		●	●	●	●	●	●
Parts catcher		X	X	X	X	X	X
Robot		▲	▲	▲	▲	▲	▲
Spindle air outer blow		■	■	■	■	■	■
Spindle air inner blow		X	X	X	X	X	X
Transformer		■	■	■	■	■	■
Two speed gearbox		●	●	●	●	●	●
Tool setter		■	■	■	■	■	■
3 jaw close center chuck		▲	▲	▲	▲	▲	▲
3 jaw open center chuck		●	●	●	●	●	●

●: STD / ■: OPT(DESIGNED) / ▲: OPT(TO BE ADVISED) / X: N/A(NOT AVAILABLE)