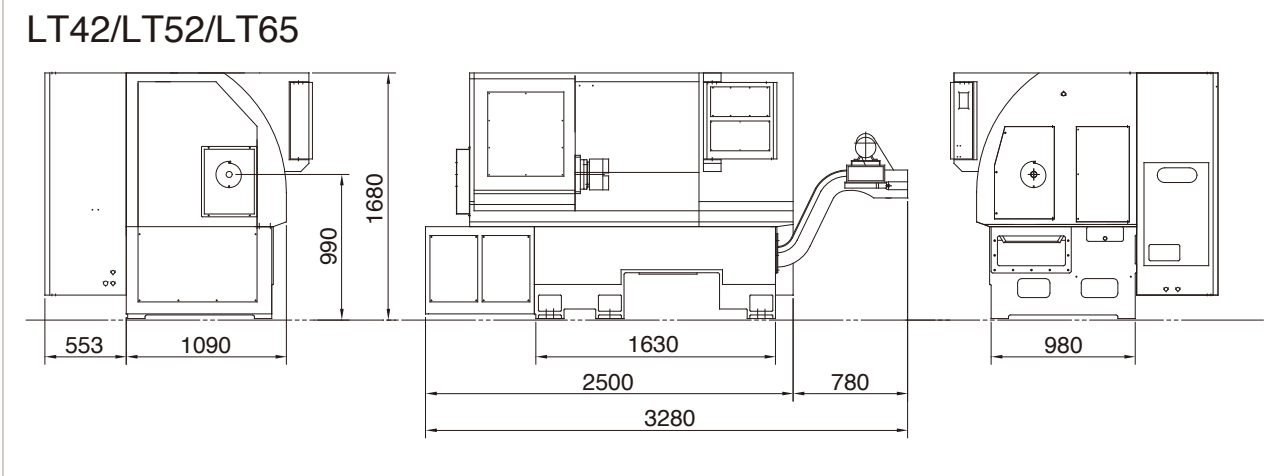


Layout Drawing



Specifications

Features	Description	Unit	LT-42	LT-52	LT-65
Capacity	Swing over bed	mm		500	
	Swing over cross slide	mm		220	
	Max. cutting diameter	mm		210	
	Max. cutting length	mm		460	
Travel	Slant bed degree	degree		30	
	X axis travel	mm		(215) 170+45	
Spindle	Z axis travel	mm		520	
	Spindle nose			A2-5 / A2-6	
	Through hole diameter	mm		42 / 52 / 65	
	Spindle speed	rpm		6000 (for LT-42) 5000 (for LT-52) 4000 (for LT-65)	
Turret	Spindle motor	Kw		11/15(Fanuc)/7.5/11(Fagor)/11/15(Fagor, Fanuc)	
	Hydraulic chuck size	mm		169 for LT-42 210 for LT-52 215 for LT-65	
	Hydraulic pressure-min/max.	kg/cm ²		5/30	
	Turret type			Hyd. vertical	
Live Tooling (opt.)	Tool no.			8_VDI30	
	Boring bar dia.	mm		32	
	Square tool holder	mm		25 x 25	
	Tool shank diameter	mm		VDI30/12 position or VDI40/8 position	
Axes	Power rating	Kw		3.75	
	Maximum speed	rpm		4500	
	X axis ballscrew	mm		ø32 x P10	
	X axis linear guide way	mm		30	
Motor	X axis rapid feed	M/min.		30	
	Z axis rapid feed	M/min.		30	
	X axis servo motor	Kw		1.8(Fanuc) / 2.92(Fagor)	
	Z axis servo motor	Kw		1.8(Fanuc) / 2.92(Fagor)	
Accuracy	Coolant pump motor	hp		3/4	
	Chip conveyor motor	hp		1/4	
	Hydraulic pump motor	w		75	
	Lubrication pump motor	w		30	
Tailstock	Positioning accuracy	mm		+/-0.005/300	
	Repeatability accuracy	mm		0.005	
	Tailstock quill dia.	mm		65	
	Tailstock travel	mm		425	
Coolant	Quill taper	mm		MT4	
	Quill travel	mm		50	
	Tank capacity	L		140	
	Max. coolant pressure	kg/cm ²		2.5	
Miscellaneous	Max. coolant flow	L/min		55	
	Tank capacity	L		2	
	Pump pressure	kg/cm ²		8	
	Pump flow rate	L/min		2.2	
Miscellaneous	Distributor type			pressure release	
	Length without Chip conveyor	mm		2390	
	Length with Chip conveyor	mm		3280	
	Width	mm		1650	
	Height	mm		1600	
	Machine weight	Kg		3200	
Miscellaneous	Floor space	mm		3280 x 2500	
	Total power consumption	KVA		35	

BUFFALO MACHINERY CO., LTD.

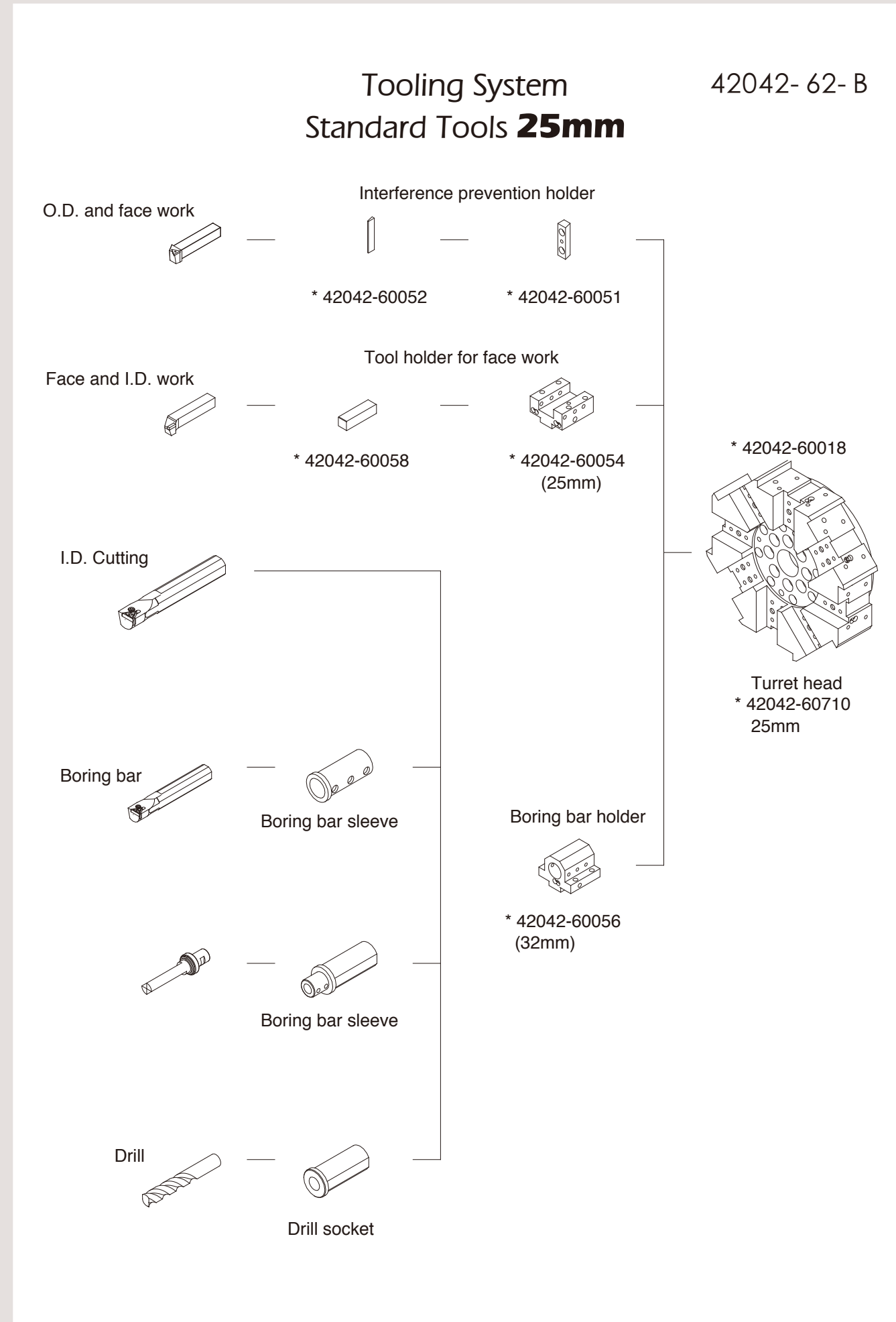
56, Lane 318, Der Sheng Road, Ta Ya District, Taichung City, Taiwan R.O.C.
 P.O. Box 320, Ta Ya District, Taichung City, Taiwan R.O.C.
 Tel: 886-4-25 60 37 59 Fax: 886-4-25 60 37 69
 E-mail: info@mail.buffalo.com.tw
www.buffalo.com.tw



CNC Lathe



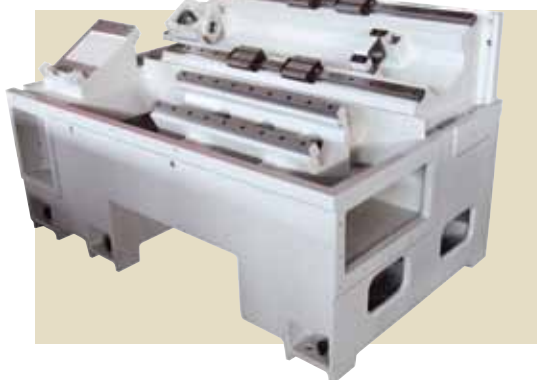
April 2012



BENEFIT TO GET A Microcut LT LATHE....



Microcut/Challenger lathes are notable CNC Machines which combined by significant features: **Speed, Power, Precision, Durability and After sales service---at an affordable price.**



Benefit 1. Rigidity and Trustworthy

Designed and built for mass volume production and long life

- One-piece, Meehanite steel base with strategically ribbed.
- Heavy duty X- and Z- axes Linear guideways with double nut ballscrews
- 4 angular bearings support spindle
- Large bar capacity in compact design machine

Benefit 2. Rapidity and Precision

- 0.79 seconds turret indexing time (unclamp/clamp to adjacent)
- 30M/min X- and Z- axis rapid feed
- Precision ground class C3 ballscrews



Benefit 3. Additional Built-In Features as Standard

- Hydraulic 3-jaw chuck with hard jaw & softjaws
- Through tool holder coolant
- Regular type or VDI type turret plate
- Wide selections of bar capacity, 42/52/65mm bar capacity available.
- Bar feeder interface

Benefit 4. Wide Range Options to support your mass production

- Parts catcher
- C-axis & Power Turret
- Tool touch Probe
- Chip conveyor
- Bar feed system
- Collet chuck & collets

Benefit 5. Value-added Control Features

- Manual Guide programming on Fanuc control
- ISO code or conversational programming with a teach in function on Fagor control.

RIGIDITY AND TRUSTWORTHY FOR PRODUCTION AND LONG LIFE BASE

- One-piece Meehanite steel and strategically-ribbed base providing superior rigidity and durability for heavy duty.
- 30-degree, 1650kg base offers extra cutting diameter.
- Designed for easier chip flow into the chip tray.



TRANSMISSION SYSTEM

- Rigid Linear-guideways provides maximum static and dynamic stiffness for long life and overall machining consistency
- Double-nut, hardened & ground ballscrew for added stiffness and rigidity
- Fanuc or Fagor servo motors for spindle and X- / Z- axes
- Encoder is built into each motor for precision accuracy
- Direct driving on each axis

SPINDLE

- Supported by 4 angular bearing
- Powerful spindle drive 11Kw (30 min. rate/Fanuc control) for LT-42/52/65
7.5Kw (30 min. rate/Fagor control) for LT-42/52
11Kw (30 min. rate/Fagor control) for LT-65

RAPIDITY AND PRECISION FOR EFFICIENT PRODUCTION

8 Station Turret

- Regular type or VDI (VDI30) top plate available
- Fast indexing time for reduce cycle time
- Bidirectional shortest path indexing
- Hydraulic turret standard(Electric-Servo turret on request)

Fast X- and Z- axis Rapid Feed

- 30M/min for reduce cycle time

Fast spindle Speed

- 6000rpm on LT-42
- 5000rpm on LT-52
- 4000rpm on LT-65

Precision Ballscrew

- C3 class hardened and ground ballscrew on X- and Z-axes

Laser Calibration on X- and Z- axes Accuracy:

Positioning accuracy +/-0.005mm
Repeatability accuracy 0.005mm

ADDITIONAL BUILT-IN FEATURES AS STANDARD



Hydraulic 3-jaw chuck (includes hard & soft jaws)
6"/169mm on LT-42
8"/210mm on LT-52
8"/215mm on LT-65

Regular turret top plate with tool holders supplied. O.D. tooling holder 25x25mm, I.D. tooling holder Ø32mm. Through turret coolant capacity provides direct follow of coolant through Turret Port to the active cutting position.



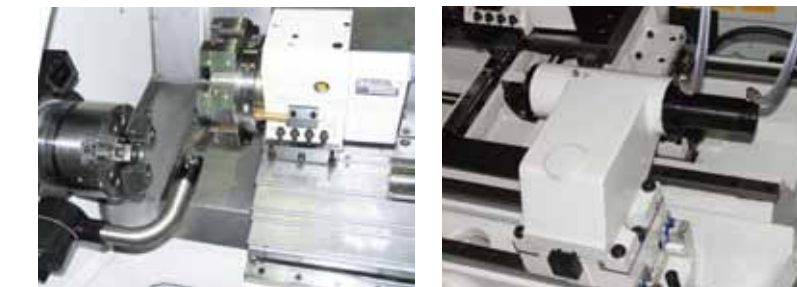
Big capacity hydraulic oil tank with a safety check valve ensures stable oil pressure. Easy-view pressure gauge at convenient position for easy operation.



High-Tech electric cabinet meets the latest CE regulation .

Eye-level control panel provides friendly operation. Manual Guide Programming on Fanuc control. Fagor control can be used either ISO Code or conversational Programming with a teaching function.

PRODUCTIVITY OPTIONS



• Manual Tool Touch Probe or Automatic Tool Touch Probe provides quick setup and easy use.



• Tailstock quill hydraulically driven. Tailstock moves on box guide ways



• Chip conveyor
• Provides continuous removal of chips produced by the cutting

Live Tooling/C-axis

For secondary milling machine operation, reducing additional part handling and setup cost.

For cross or end-milling/drilling operation. VDI, 4500rpm, with 3.75Kw Rating, separate servo motors for Turret index and live tooling.

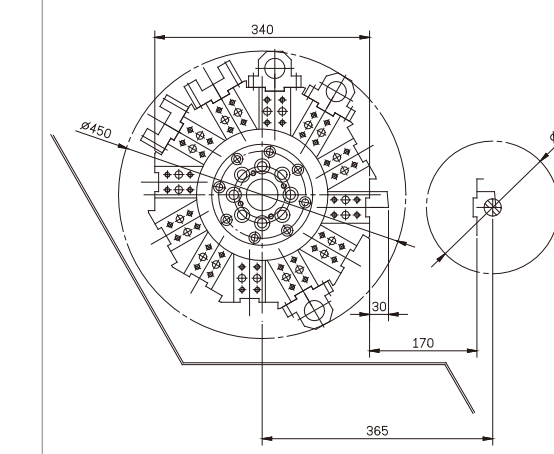
Additional Options

- ✓ Bar feeder system
- ✓ Safety module
- ✓ Parts catcher
- ✓ EMC
- ✓ Collect Chuck
- ✓ Patrol Light 3 colors

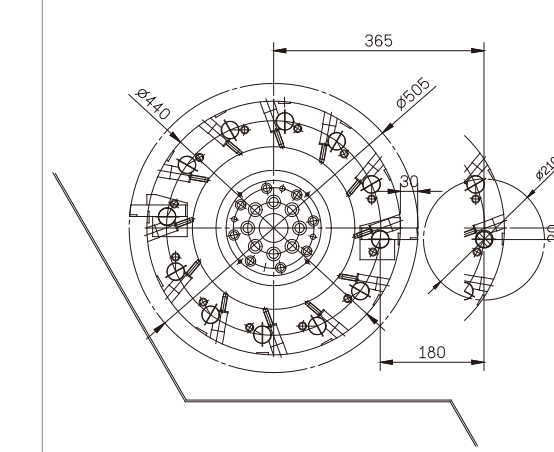
Interference Drawing

LS-200 Hyd. Turret

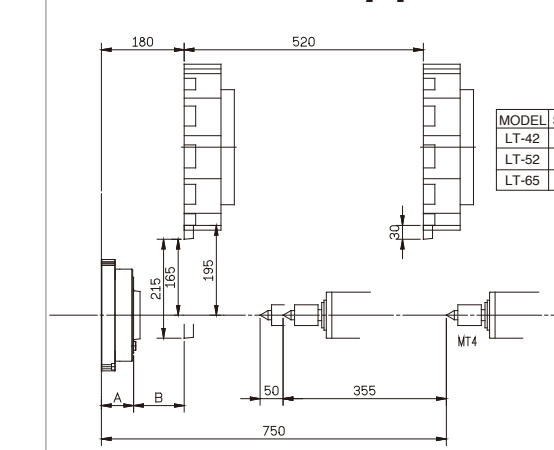
with Standard top plate



with VDI top plate



With standard top plate



Torque & Horsepower Chart 11/15K (Drawing shown Fanuc)

