

April 8, 2022

ATLANTIC MACHINE WORKS

#8 Point Road
Bristols Hope, Newfoundland + Labrador, A1Y 0A7

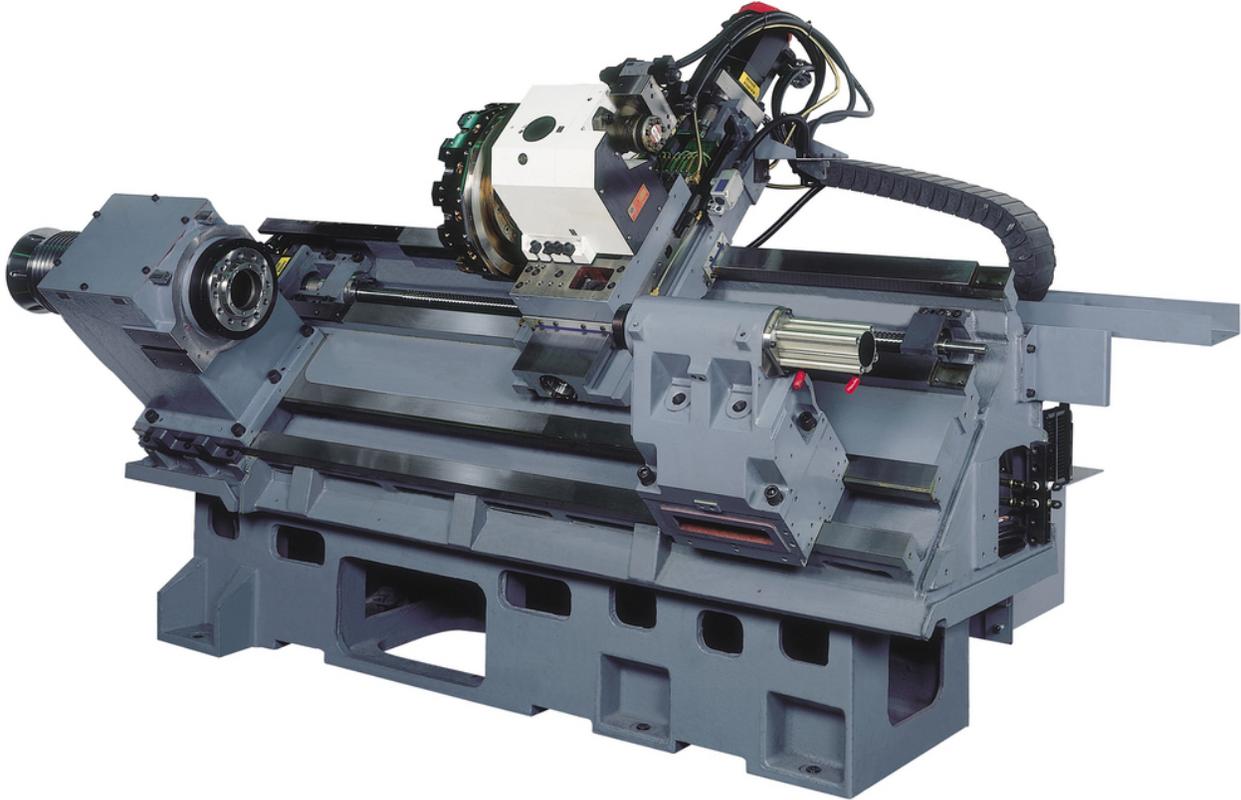
Attention: Mr. Mark Murray

LEADWELL LTC-25I TURNING CENTRE

Dear Mark,

Thank you for the opportunity to quote the **LEADWELL LTC-25I TURNING CENTRE** for your facilities in Bristols Hope, Newfoundland + Labrador.





STURDY AND DURABLE MACHINE BODY AND GUIDE WAYS

The machine frame with 45 degree slant bed design, manufactured with the best quality meehanite cast iron body, scientific rib reinforcement, high rigid and vibration tolerance base design and high precision ball screws offer efficient process performance.

SPINDLE

High rigidity and long service life with high precision NN-TYPE spindle bearings from Japan and Europe.

CHIP DISPOSAL

The slant bed design with large space offers the best chip disposal. With the standard chain-type lift-up chip conveyor it easily disposes chips for a clean working environment.

PRECISION BALL SCREWS

The precision ball screws offer high accuracy, low torque fluctuations and long term maintenance-free operation.

HIGH RIGIDITY BOX WAYS

The high rigidity box ways offer heavy-duty cutting stability with excellent vibration dampening.

TOOL SETTER

The included tool setter with Renishaw probe can measure tool lengths and detect wear and damage. With the standard tool life management system it can automatically replace worn and damaged tools with spare back-up tools mounted on the tool turret.

LEADWELL LTC-25I TURNING CENTRE SPECIFICATIONS

CAPACITY

maximum swing	670mm (26.38")
swing over cross slide	440mm (17.32")
maximum turret diameter	450mm (17.72")
maximum turning length	760mm (29.9")
bar capacity	77mm (3")
maximum weight capacity with tailstock	1200kg (2,645 lbs.)
maximum weight capacity without tailstock	39kg (86 lbs.)

TRAVEL

X-axis travel with heavy duty box guide ways	225 + 25mm (8.86" + 0.98")
Z-axis travel with heavy duty box guide ways	790mm (31.1")

SPINDLE

chuck size	254mm (10")
spindle nose	A2-8
spindle speed range	from 35 to 3500 rpm
spindle motor	15/18.5kW (20/24.8 hp)
maximum spindle torque	526.9Nm (388.6 ft-lbs.)

TOOL SERVO TURRET

number of tool stations	12
shank height for square tool	25mm (1")
shank diameter for boring bar	40mm (1.5")
turret indexing time to adjacent tool	0.72 seconds
turret indexing time 180°	1.32 seconds

RAPID FEED RATE

X-axis	15m per minute (590" per minute)
Z-axis	20m per minute (787" per minute)
feed per revolution	from 0.01 to 500mm/rev (from 0.000394" to 19.68"/rev)
jog feed rate per revolution	1260mm/rev (49.61"/rev)

ACCURACY

positioning X/Z-axis (VDI 3441)	±0.015mm (±0.000591")
repeatability X/Z-axis (VDI 3441)	0.01mm (0.000394")

BED & SLIDE

overall bed guide width	460mm (18.1")
cross slide guide width	257mm (10.1")
single piece bed angle	45°

FEED MOTORS

X-axis motor	3kW (4 hp)
X-axis motor rated torque at stall	12Nm
X-axis thrust force	765Kg-f
Z-axis motor	4kW (5.4 hp)
Z-axis motor rated torque at stall	22Nm
Z-axis thrust force	939Kg-f

BALL SCREWS

X-axis diameter / length / pitch	38mm / 805mm / 8mm
Z-axis diameter / length / pitch	40mm / 1457mm / 12mm

TAILSTOCK

tailstock movement	programmable drag 'n drop type
tailstock travel	720mm (28.3")
tailstock quill diameter	100mm (3.94")
quill movement	hydraulic
quill inside taper	MT#5
quill travel	100mm (3.94")
quill maximum thrust	600Kg-f

HYDRAULIC UNIT

pump motor	1.5kW (2 hp)
pump capacity	30L/minute
pump pressure	35kg/cm ²
tank capacity	50L

COOLANT SYSTEM

pump motor	1.17kW (1.5 hp)
pump capacity	83L/minute
pump pressure	3.2kg/cm ²
tank capacity	150L

CENTRAL LUBRICATION

pump motor	20W
pump capacity	180cc/minute
pump pressure	12-15kg/cm ²
tank capacity	3L

MACHINE DIMENSION + WEIGHT

machine length without chip conveyor	3905mm (153.7")
machine length with chip conveyor	4461mm (175.63")
machine width x height	1930 x 1980mm (76" x 78")
machine weight	6200kg (13,669 lbs.)
power requirement	230V/40kVa

Note: The above machine specifications and descriptions are subject to change without notice.



STANDARD & INCLUDED EQUIPMENT

Fanuc Oi-TF Plus control
10" hydraulic 3-jaw chuck with a set of soft and hard jaws + high - low chuck pressure
Renishaw tool setter
programmable tailstock
chain type chip conveyor + bucket
300 psi high pressure coolant system
auto lubrication system
buzzer
work light
heat exchanger for electrical cabinet
fully enclosed splash/chip guarding
chuck open/close foot switch
tool holder package

PACKAGE PRICE: \$139,900 US

TERMS AND CONDITIONS

The pricing

Pricing shown is in US funds.

The above pricing is F.O.B. Masteel in Oakville, Ontario.

Applicable taxes are extra.

CSA approval is included in the pricing.

The payment terms

30% with order, 60% before pick-up, 10% 30 days after delivery.

Warranty

Twelve (12) months.

Delivery

Two months, **subject to prior sale.**

***CUSTOMER'S RESPONSIBILITY**

- Pick-up the machine at Masteel in Oakville, Ontario.
- Off load the machine from the truck at the customer's site.
- Provide all lifting equipment to move the machine into place for assembly.
- Provide a single concrete slab level foundation per the machine foundation requirements.
- Provide power to the machine by a certified electrician.
- Provide hydraulic + way lube oil plus coolant fluid for the machine.

***MASTEEL'S RESPONSIBILITY**

- Assemble / level the machine on the customer's shop floor and anchor the machine to the customer supplied foundation.
- Complete the machine installation and accuracy test.
- One day of basic machine operator training.

Pre-Start Health and Safety Review (PHSR) is the responsibility of the customer and is not included in the above pricing.

This proposal is valid for thirty (30) days.

We look forward to working with you on this project.

Sincerely,

MASTEEL AMERICA CORPORATION

Ron Nater
Manager, Eastern Canada
phone: 647.270.4434
email: ron@masteels.com
blogs: www.ronnater.ca

