



# ***DUGARD EAGLE 32 SERIES***

## ***Sliding Headstock CNC Lathes***

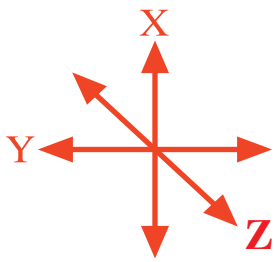
*Maximum Versatility with Advanced  
Technology to Increase Your Profit*



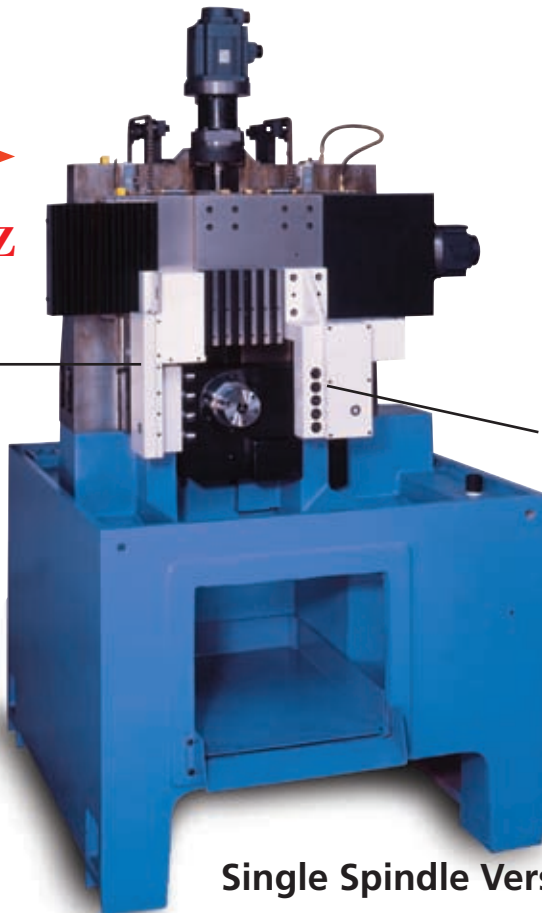
# EAGLE 32

## The Modern Versatility

- *Linear guide ways on X, Y, Z-axis providing high speed traverses and rigidity.*
- *All major castings are manufactured from high quality cast iron (FC-30), stress relieved for optimum structural rigidity and stability.*
- *Unique sliding headstock design assures highest precision and accuracy.*
- *The headstock is counter-balanced for stability and smoothness.*
- *The spindle features a C-axis function for contour capability.*
- *The spindle employs a TRB-32 collet chuck for maximum concentricity.*
- *The main tool slide combined with radial and axial milling attachments provides maximum versatility for machining*



Radial milling,  
drilling and tapping



Axial milling,  
drilling and tapping

Single Spindle Version of  
Eagle 32 with Y & C axes



Sample of intricate component  
machined on Eagle 32

# Way To Productivity, And Profit

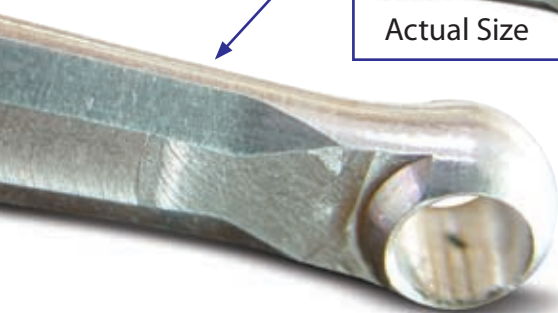
- *Very short bar ends*
- *Use normal bar, ground bar not necessary*
- *No guide bush needed*



## ***User-Friendly***

### **SYNTEC PC Based CNC Control 900TE**

- 10.4" LCD (TFT) screen.
- 3D simulation. Stepping simulation.
- Floppy disc drive 1.44Mb.
- Conversational graphic display.
- WIN CE operation system.
- 486 Intel 8 MRAM CPU.
- Standard hard disc memory 2.1GB



# EAGLE 32

## With New Features



**Radial Milling Attachment**  
Consisting of 4 driven tool holders for milling, drilling and tapping operations.

### Spindle

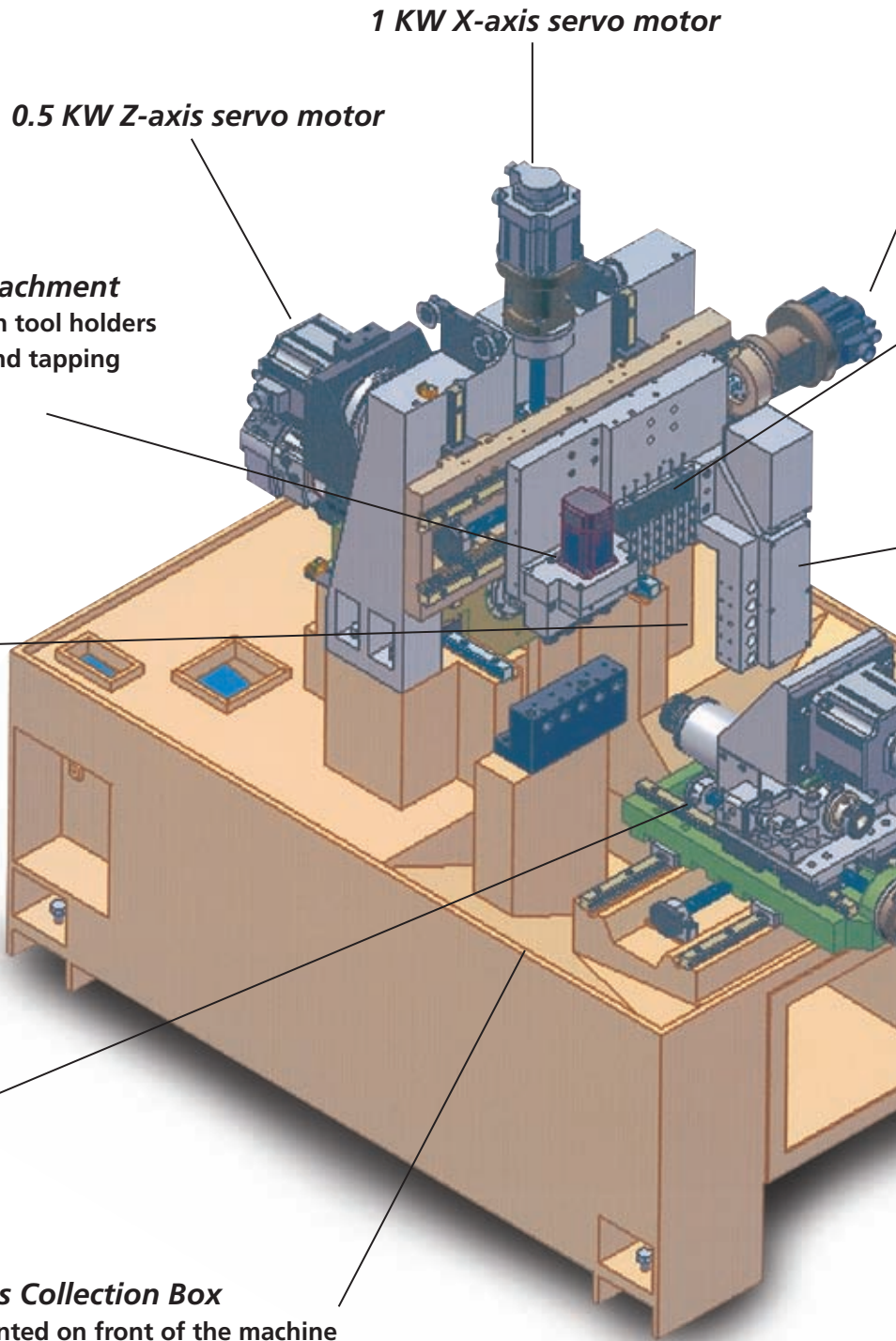
The spindle is equipped with a TRB-25 collet chuck for fitting with I.D. turning tool. The spindle features C-axis contour capability.

### Sub-Spindle Option

To enable second operation machining while the main spindle is working for finishing parts quicker in one setting.

### Parts Collection Box

Mounted on front of the machine for added convenience for parts collection.



*Illustration shows Twin Spindle Machine with Y and C axes*

# to Give You the Winning Edge !

*0.5 KW Y-axis servo motor*

## **Tool Slide**

Consisting of six 12mm or five 16mm O.D. tool shanks.

## **Axial Milling Attachment**

Consisting of 5 stationary and 3 driven tool holders for milling, drilling and tapping operations.

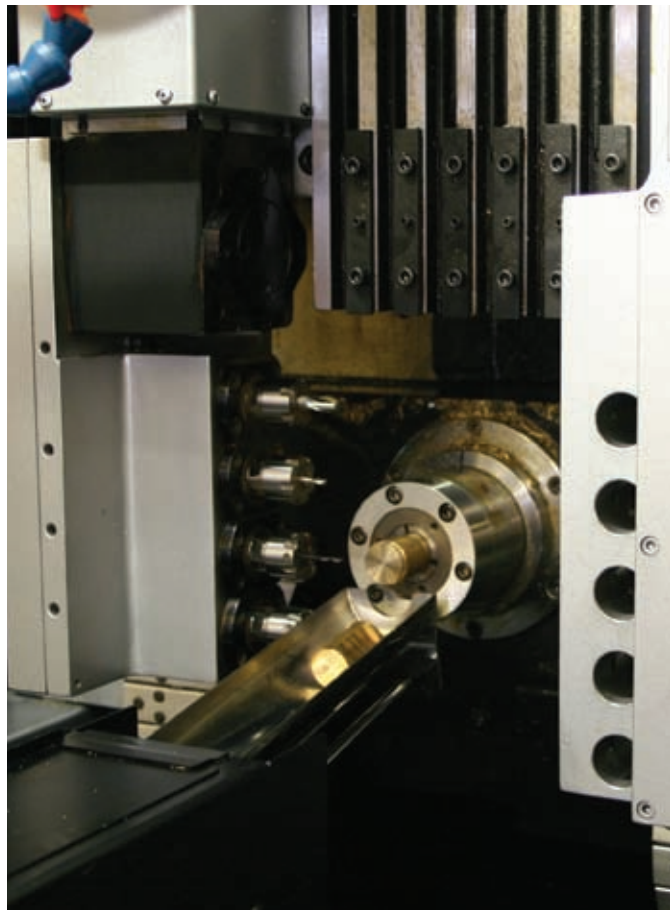


## **Massive Base**

The base is manufactured from high quality cast iron (FC-30), stress relieved for strength and stability. Rugged construction to minimise vibration



**Simultaneous Machining of First and Second Operation**



## **Sliding Head-Stock**

- The head stock is specially designed for extra rigidity, to eliminate vibration.
- The headstock movement is driven by a servo motor combined with high rigidity linear guideways for fast, accurate positioning.

Picture shows non sub spindle parts catcher for Non Sub Spindle.

## **Precision Spindle**

- The spindle runs on class p4 high precision angular contact ball bearings, ensuring high cutting accuracy at all times.
- High spindle speed up to 6,000 RPM produces fine surface finish.

# EAGLE 32 T

32mm bar machine  
fixed front tool post

## Bar feeder (Option on Eagle 32T)

This bar feeder allows the fully automatic loading of bar stock for unmanned operation.



**HYDRAFEED 532**



**Eagle 32 with Sub Spindle**

**Eagle 32 T MiniTurn**



## Machine Interior Layout

The Mini Turn 32T is equipped with solid front tool post and indexing 8 position turret.

Picture shows parts catcher.



## Parts catcher

The parts catcher is located under the second operation tools for efficient collection of finished work pieces and unmanned operation when the machine is equipped with a bar feeder.

# Line for I.D. and O.D. turning, with front and rear 8 station turret.

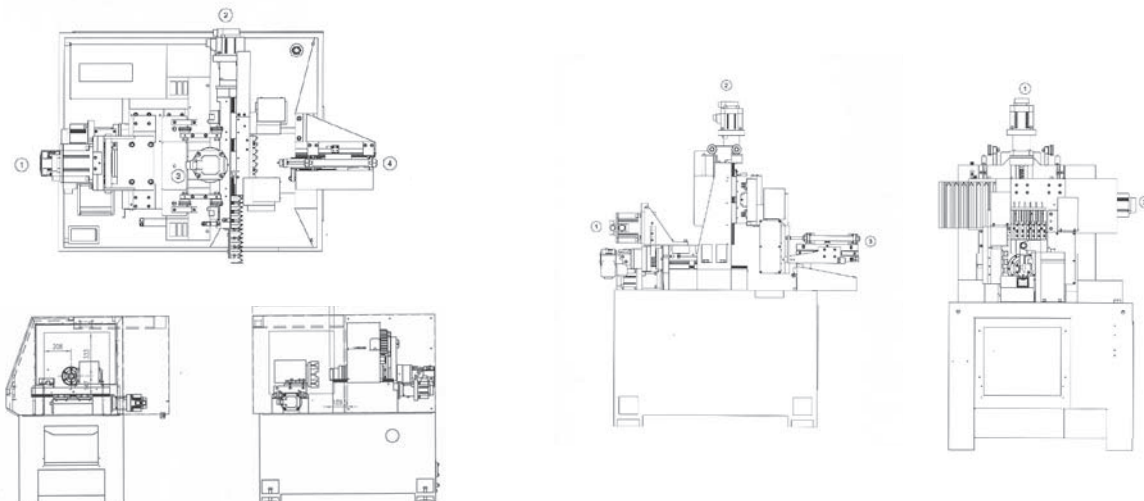
## Specification

	MODEL	EAGLE 32	MINITURN 32T
<b>CAPACITY</b>	Max. turning diameter	Ø 32mm	Ø 120mm
	Spindle speed range	100-6000rpm	4000 (6000)
	Max. bar feeding dia.	Ø 32mm	Ø 32mm
	Spindle collet	TRB-32	TRB-32
	Min. input unit	0.001mm	0.001mm
<b>TRAVELS</b>	X axis travel (vertical)	190mm	280mm
	Y axis travel (cross)	290mm	
	Z axis travel (longitudinal)	165mm	165mm
	Rapid trav. speed (X, Y, Z axis)	30m/min	18m/min
<b>I.D. &amp; O.D. TURNING</b>	No. of external turning tools	6	8
	O.D. turning tool size	12x12x120mm	20
	No. of internal turning tools	5	4
	I.D. turning tool size	ER20	Ø 25
<b>SLIDE ATTACHMENT</b>	No. of radial driven tools	4	
	No. of axial driven tools	3	
	Driven tool collets	ER20	
	Speed of driven tools	0-6000rpm Variable speed	
<b>GENERAL MOTOR</b>	Spindle motor	7kw	3.7kw
	X, Y, Z axis servo motor	1kw (X axis) 0.5kw (Y, Z axis)	X, Z axis 0.75kw
	Coolant pump motor	1/4 HP	1/4 HP
	Auto lubricator capacity	3-6cc / 15 min	3-6cc / 15 min
	Turning tool servo motor	0.75kw	
	Controller		Mitsubishi E60 FANUC Di-Mate TC
<b>GENERAL SPECIFICATION</b>	Total power consumption	6kw	
	Height of spindle center	965mm	965mm
	Machine size	2100 x 1320 x 1900	1950 x 1450 x 1600
	Net weight	3800kgs	1800kg

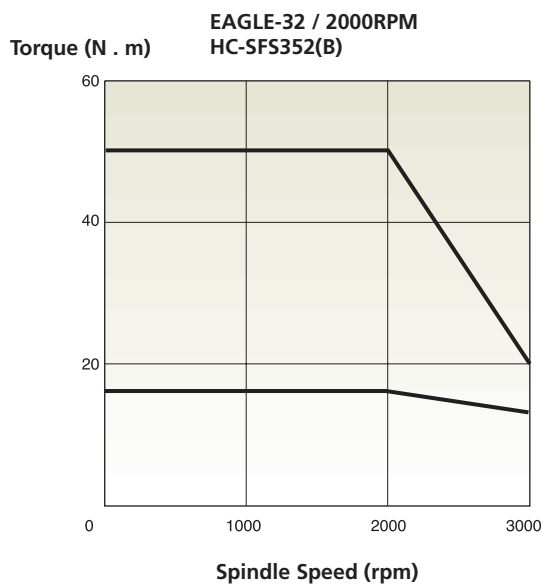
\* The above specifications are subject to change without prior notice.

## Machine Layouts

unit : mm



## Spindle Speed / Torque Diagram



## Eagle 32:

### Standard Accessories

1. Tool kit.
2. TRB32 Spindle collet x 5 series
3. Collet Chuck
4. Auto bar feeder interface
5. Parts catcher
6. Coolant tank and pumps
7. Auto power breaker
8. Hydraulic cylinders stroke inspection device
9. Cutting fluid inspection device
10. Radial milling attachment
11. Axial milling attachment
12. Air blast chip blower
13. Chip conveyor and bin

### Options

1. Sub-spindle

**Typical complex parts produced from 32mm Dia.**



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