



Ezi-turn

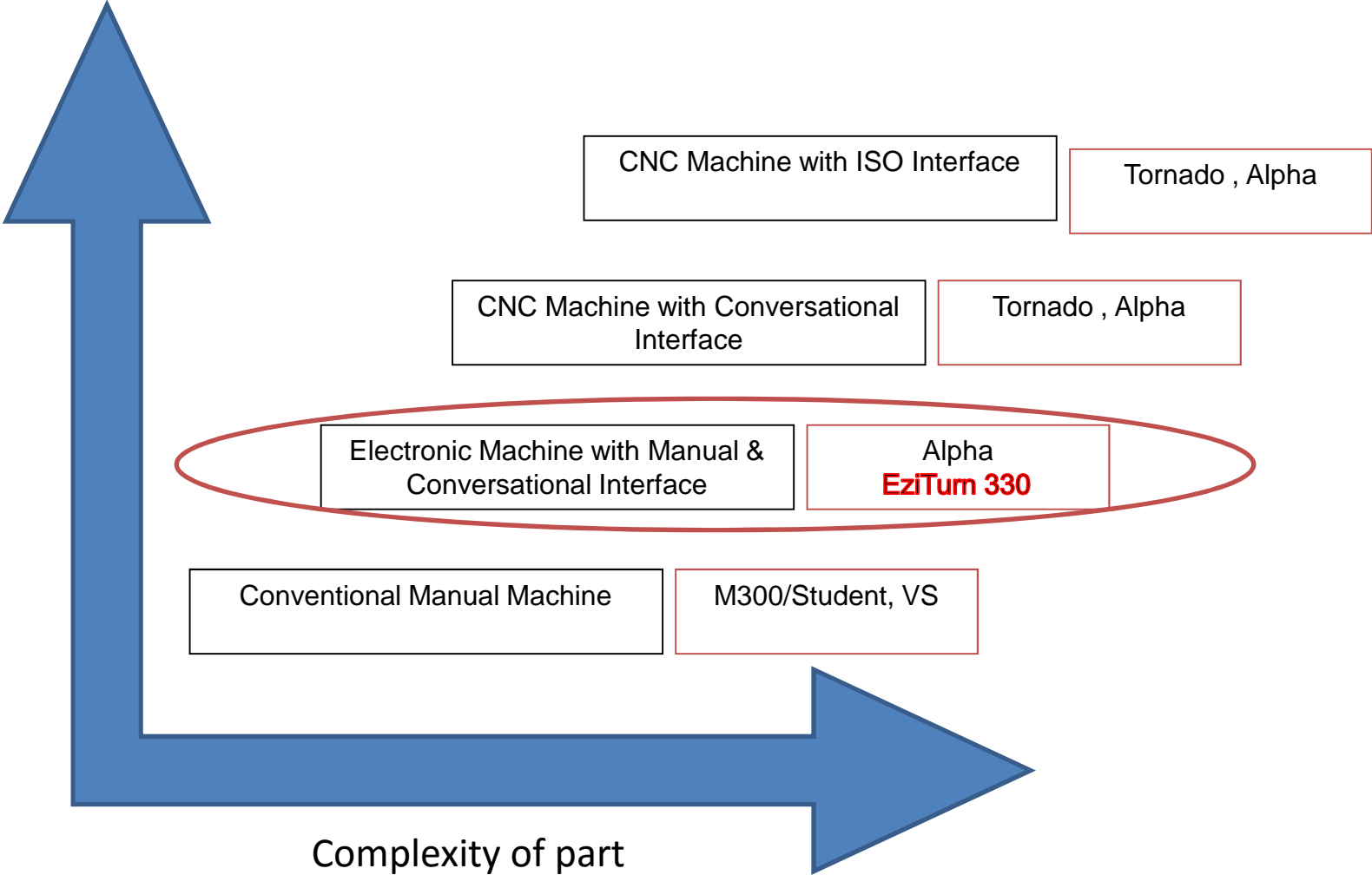


Ezi-Turn



1. Rear Splash Guard
2. Interlocked Chuck Guard
3. Interlocked Front Guard
4. Interlocked Spindle End Guard

Ezi-Turn



Ezi-Turn - ISO23125:2010 Definition

- ISO23125:2010 “Machine tools – Safety – Turning machines”
 - Group 2 machine – “Manually controlled turning machine with limited numerically controlled capability”
 - A turning machine that can be operated as a Group 1 machine (Manually controlled, horizontal spindle turning machine) by the use of electronic hand wheels or as a machine with limited NC control by operating controls on an NC panel.
 - Limited Numerical Control system providing:
 - Constant Surface Speed (CSS)
 - Axis Interpolation (Profiling)
 - Thread Cutting Cycles
 - However, features not allowed:
 - Automatic program start
 - Automatic tool change
 - Unlimited rapid axis movements
 - Automatic work piece change

Ezi-Turn - Specification

Machine:

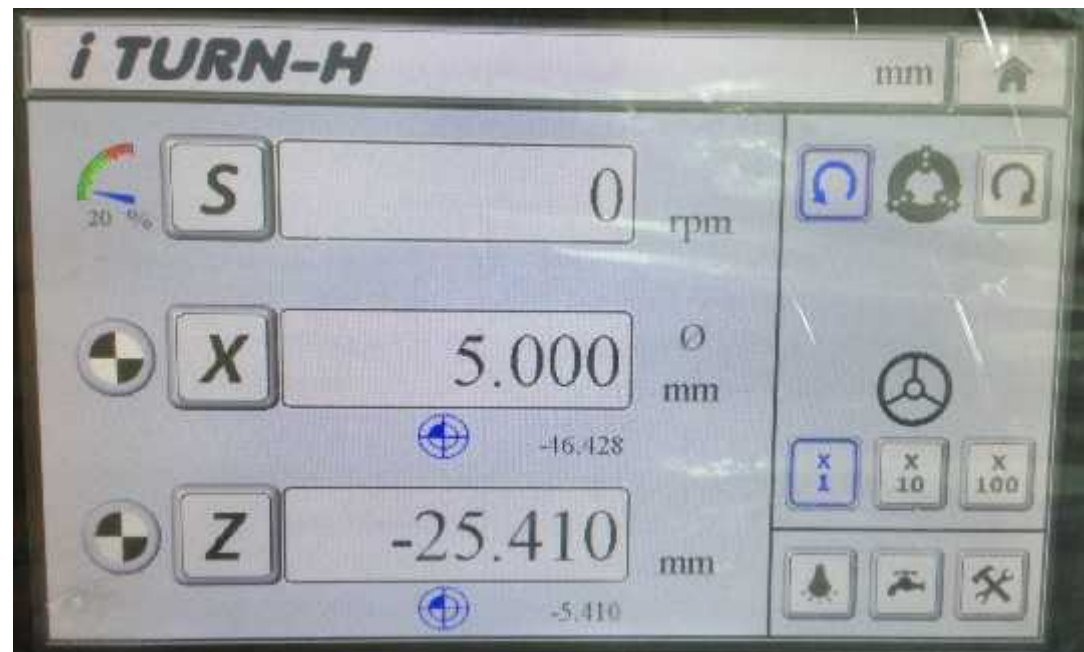
Distance Between Centre	1,000mm
Swing Over Bed	330mm
Swing Over Cross Slide	210mm
Bed Configuration	Straight
Width Over Bed ways	206mm

Spindle:

Spindle Bore	42mm
Spindle Nose	D1-4
Spindle Nose Taper	No.3 MT
Spindle Speed Range	0 - 2500rpm (One Infinitely Variable Range)
Spindle Motor	4-Pole 50Hz Induction Motor
Spindle Motor Rating (S1 Continuous)	3.7kW

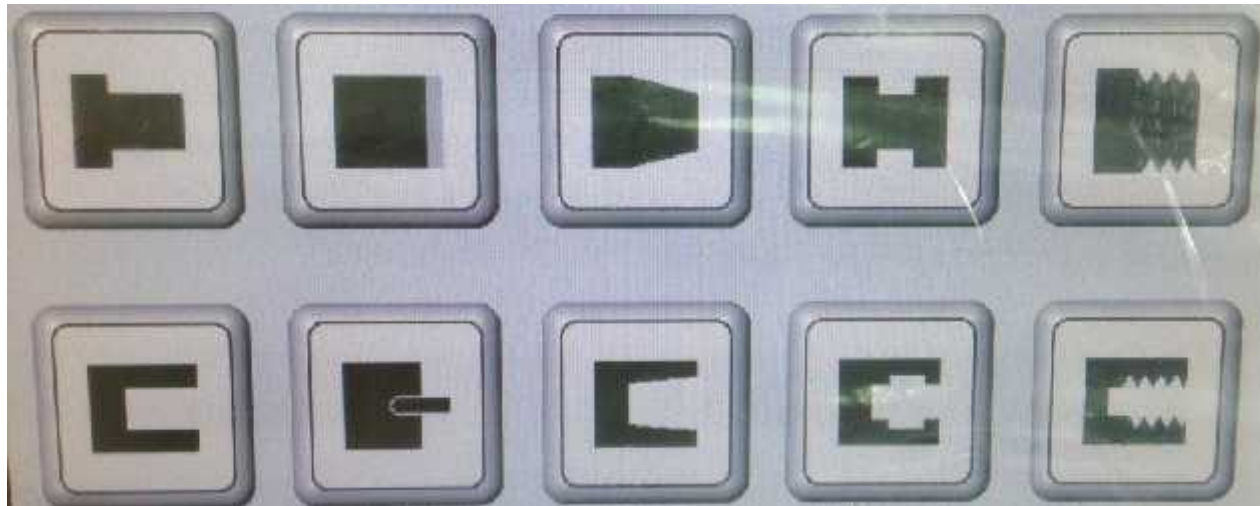
Ezi-Turn - Conversational Programming Interface

- Manual Mode Interface:
 - Spindle speed input
 - Spindle direction control
 - Axes display (absolute & incremental)
 - Hand wheel multiplier control
 - Coolant control
 - Machine light control



Ezi-Turn - Conversational Programming Interface

- Machining Cycles:
 - External Stops & box cycle
 - Facing & box cycle
 - External Tapers
 - External Grooving
 - Threading
 - Internal Stops & box cycle
 - Drilling
 - Internal Tapers
 - Internal Grooving
 - Tapping



Ezi-Turn - Conversational Programming Interface

- External / Internal Stops & box cycles
- Single pass or area clearance
- Roughing and finishing passes
- Automatic chamfering / radii
- Process data input
- CSS Control



Ezi-Turn - Conversational Programming Interface

Process data input

- Roughing data – Axis Feed (mm/min) & Spindle Speed (rpm)
- Finishing data – Axis Feed (mm/min) & Spindle Speed (rpm)
- Depth of cut (mm)
- Finishing allowance (mm)

