



Chapter 4. Mechanical system

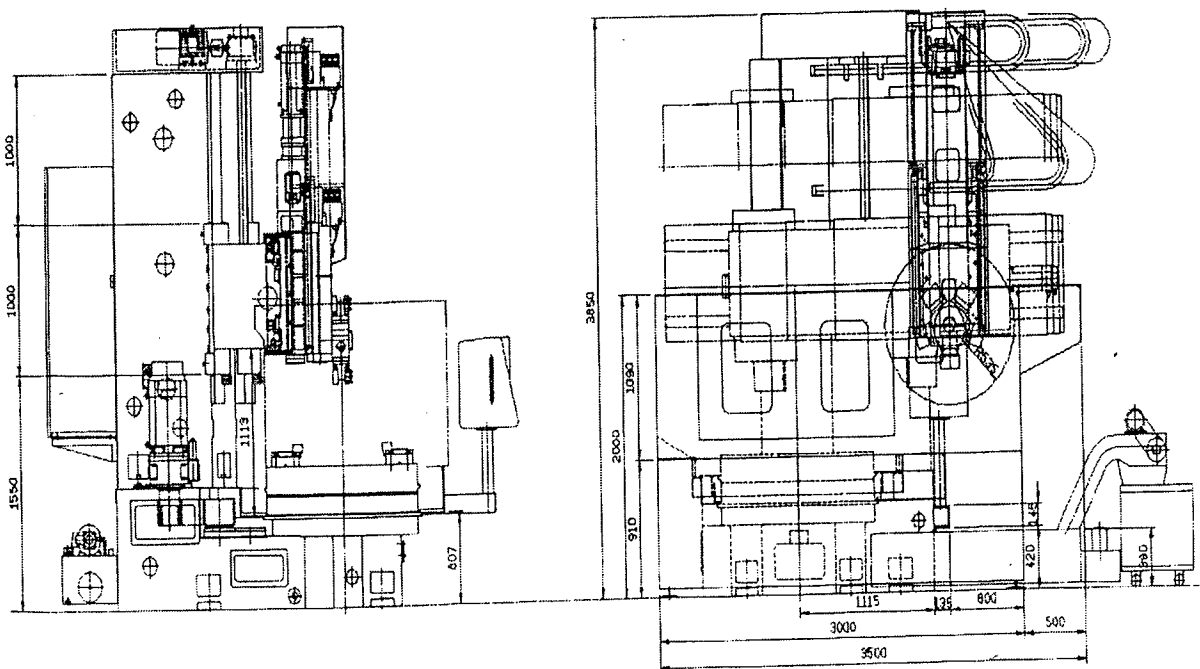
4.1 Specifications:

4.1.1 Machine Overview and Specification:

The below drawing briefly shows the machine layout and size. Please make sure it can be delivered into the installation site without interference and sufficient space around the machine has been preserved for doing maintenance.

YV-1200 Series

OUTLOOKING DIMENSIONS





Chapter 4. Mechanical System

VTL-1200ATC CNC Vertical Precise Lathe.

No	Item	Machine Specification.
1	Machining Capacity	
	1-1. Max.Sawing Diameter.	1,600 mm
	1-2. Table Diameter	1,250 mm
	1-3. Max.Cutting Height	1,200 mm
	1-4. Max.Cutting Diameter	1,350 mm
	1-5. Max Loadind on Table	5 Tons
	1-6. Mac Cutting Force	24,000 N
2	Electrical Control	
	Controller	FANUC 0 TC
3	Travel	
	3-1. X-axial Stroke	1375 mm
	3-2. Z-axial Stroke	900 mm
	3-3. Vertical Travel of Crossrail	800 mm
4	Spindle	
	4-1. Spindle Speed	2 ~ 350 RPM
	4-2. Step of Speed	2
5	Automatic Tooling Changing System	
	5-1. ATC Type	12 tools
	5-2. Tool Shank	BT50 (7/24Taper)
	5-3. Max Tools Size	350 L X 350 W X 150 H
	5-4. Max. Tool Weight	50 kg
	5-5. Tool Change Time	30 Sec
	5-6. Max. Loading of ATC	360 kg
6	Feed Rate	
	6-1. X-axial Rapid Traverse	12 m/min
	6-2. Z-axial Rapid Traverse	10 m/min
	6-3. Auto mode Feed Rate	0.001 ~ 500 mm/rev
	6-4. Manu mode Feed Rate	0 ~ 1260 mm/ min
7	Cutting Velocity Shifting	
	Gear Box	ZF Two-Speed Gearbox





Chapter 4. Mechanical System

8	Motors	
	8-1. Spindle Motor	30/37 kw
	8-2. X-axis Servo Motor	4.5 kw
	8-3. Z-axis Servo Motor	4.5 kw
	8-4. Crossrail Lift Motor	2 HP X 4P
	8-5. Gearbox Lubrication Motor	0.18 + 0.18 kw
	8-6. Slide Lubrication Motor	25 kw
	8-7. Coolant Motor	0.18 kw
9	Tank Capacity	
	9-1. Hydraulic Tank	65 liters
	9-2. Coolant Tank	200 liters
	9-3. Gearbox Lubrication Tank	50 liters
	9-4. Slides Lubrication Tank	4 liters
10	Power Supply	
	Total power	80 kva
11	Foundation Size & Weight	
	11-1. Foundation Size	4360 x 3285 mm
	11-2 Machine Weight	19,000 kg

Standard Accessories for YV-1200ATC

1	4 Jaw manual chuck 49"
2	Halogen Lamp
3	Guard Cover
4	Chip Conveyor and Chip Trolley
5	Coolant Unit
6	Hydraulic Unit
7	Heat Exchanger for Electrical Cabinet
8	Auto Lubrication System
9	Tool Kit
10	ZF Two-Speed Gearbox
11	FANUC 0T-C Controller
12	Automatic Tool Changer

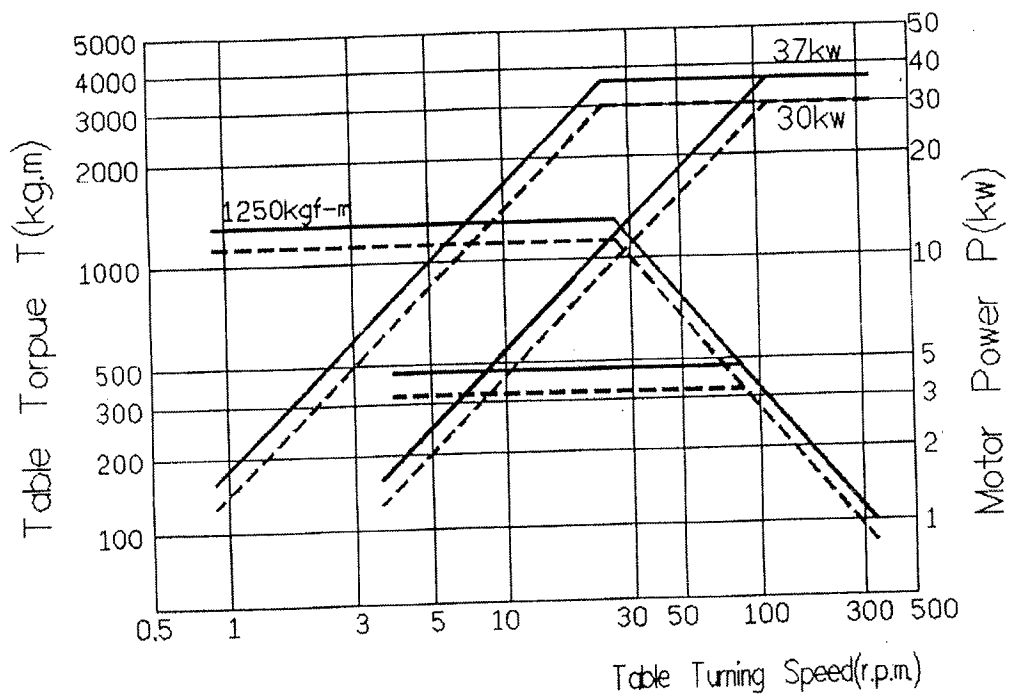
Optional Accessories for YV-1200ATC

1	Ventilation System for Electrical Cabinet
2	Tool Setter
3	CE EMC Mark
4	Transformer
5	Tool Holder





4.1.7 Spindle Speed VS Output Power



—————

30 Min operation zone

Continuous operation zone

* Note : Above data ignore efficiency loss.

