

# Chapter 2

## Specifications and Applications



## 2-2 Specifications

### Machine specification

		LH-800B
<b>Traverse</b>		
Traverse X/Y/Z	mm(inch)	1300/1200/1200(51.2/47.2/47.2)
Spindle center to pallet	mm(inch)	135-1335(5.3-52.6)
Spindle nose to pallet center	mm(inch)	200-1400(7.9-55.1)
<b>Pallet</b>		
Pallet size	mm(inch)	800x800(31.5x31.5)
Maximum pallet capacity	kg(lb)	2000(4409.25)
Maximum workpiece size	mm(inch)	∅ 1300(51.2)
Maximum workpiece height	mm(inch)	1300(51.2)
Pallet surface configuration	mm(inch)	24-M16 tapped holes, Pitch 160
Pallet indexing		1°
<b>Spindle</b>		
Spindle taper		7/24 Taper , No. 50
Spindle speed	RPM	6000
Spindle bearing inner dia.	mm(inch)	100(3.94)
<b>Drive</b>		
Rapid speed X/Y/Z	mm/min(fpm)	32000(105)
Cutting federate	mm/min(fpm)	10000(32)
Jog federate	mm/min(fpm)	1260(50)
<b>Automatic tool changer (ATC)</b>		
Magazine stations		60
Maximum tool dia. / No. adjacent tool	mm(inch)	125/250(4.9/9.8)
Maximum tool length	mm(inch)	600(23.6)
Maximum tool weight	kg (lb)	25(55.1)
Tool selection		Fixed address
<b>Automatic pallet changer (APC)</b>		
Pallet No.		2
Pallet exchange type		Rotary
Pallet change time	sec	18
<b>Controller</b>		
FANUC		18iMB

### Machine specification

		LH-800B
<b>Motor</b>		
Spindle motor	KW(HP)	22/26 (30/35)
Axes motor X/Y/Z/B	KW	7/6/7/3
Hydraulic motor	KW	3.7
Coolant motor	KW	1.6
<b>Power</b>		
Power requirement	KVA	42
<b>Tank capacity</b>		
Hydraulic system	L	60
Oil lubrication system	L	4
Coolant system	L	800
Air source	kg/cm <sup>2</sup>	6(85)
<b>Machine size</b>		
Height	mm(inch)	3950(155.5)
Floor space	mm(inch)	6990x4326(275.2x170.3)
Weight	kg (lb)	25000

#### Standard accessories

Chip conveyor & chips cart  
 Coolant through ballscrew system  
 Spindle oil cooling unit  
 Base bolt and pad  
 Chip augers (2 sets)

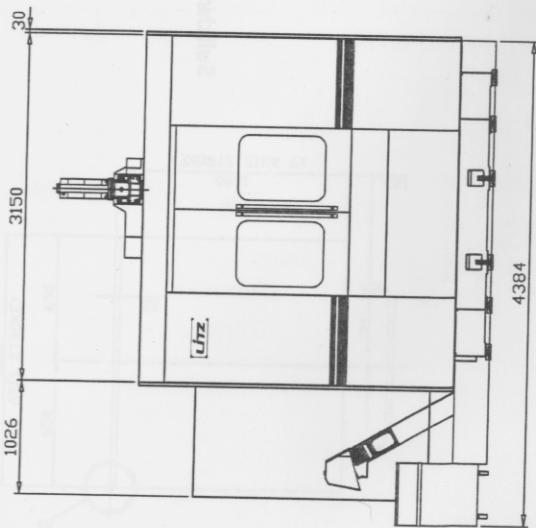
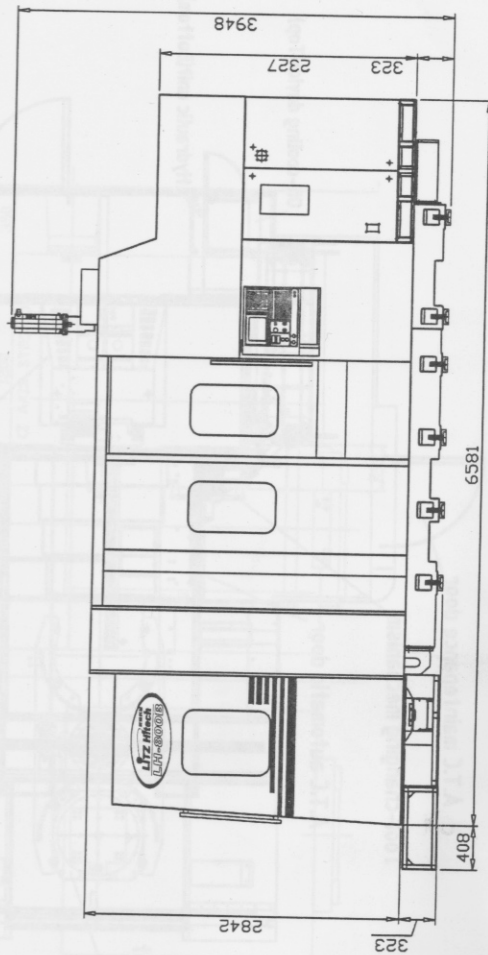
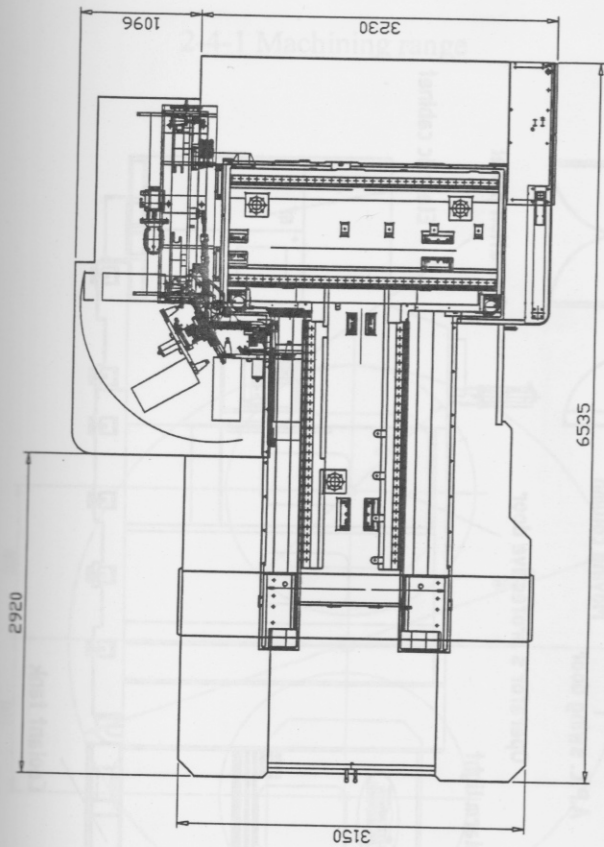
Coolant system  
 Tool box  
 In door coolant flash system  
 Y axis brake system  
 Oil/coolant separation system  
 Work light  
 Alarm light  
 Interlock door

#### Optional accessories

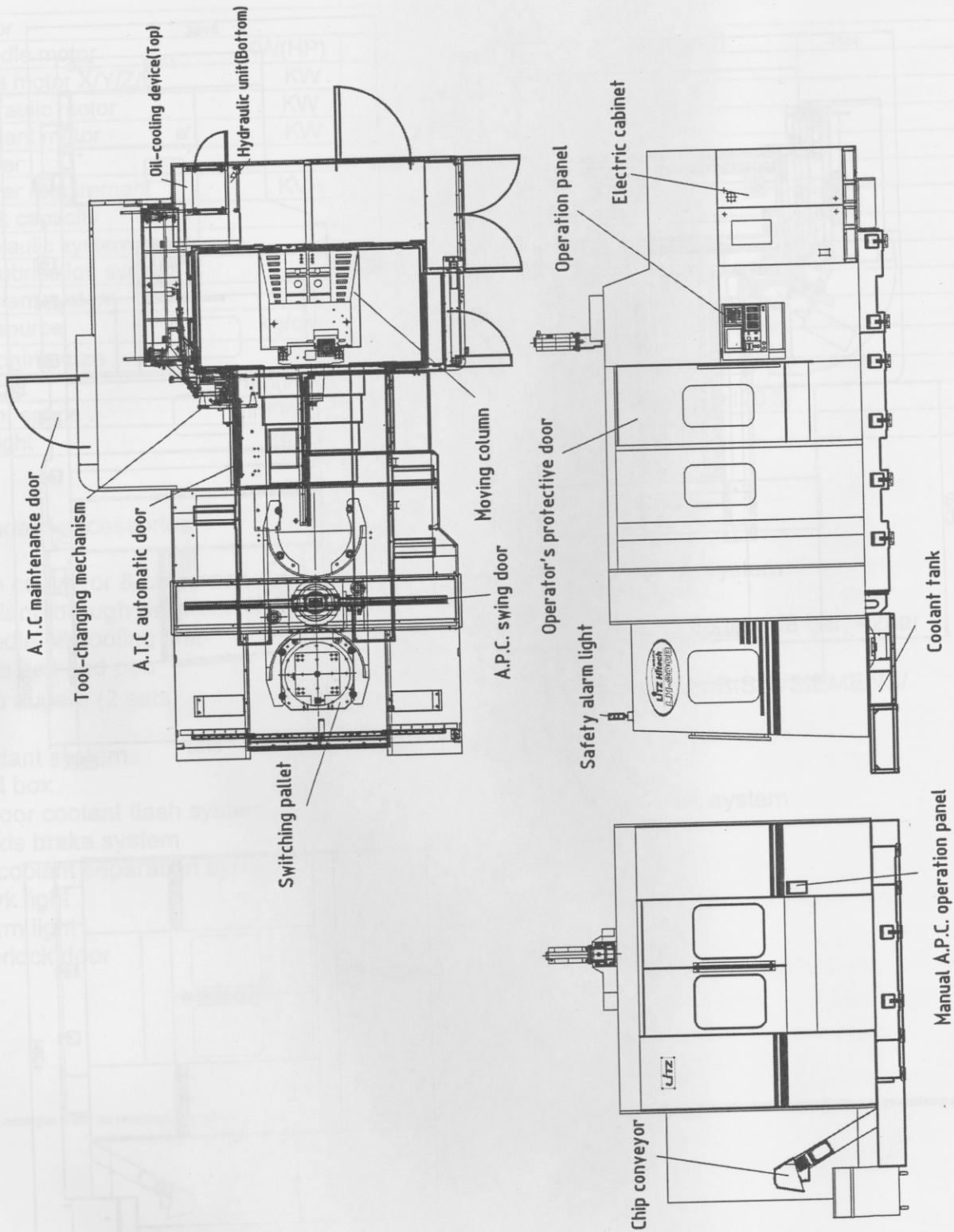
Tool length measurement system  
 Linear scale  
 Coolant through spindle system 18 bar, 42bar  
 Pallet indexing 0.001°  
 Controller : FANUC/MITSUBISHI/SIEMENS/  
 HEDENHAIN  
 High torque spindle motor  
 60/100 tools magazine  
 Work piece measurement system  
 Coolant cooling system  
 Spindle speed 8000 rpm

■ This catalogue is only for reference. The machine may differ to this specification. ■ The company reserves the rights to modify or to stop adopting the specification of this catalogue.

2-3 Outline dimensions and equipment configuration  
 2-3-1 Outline dimensions

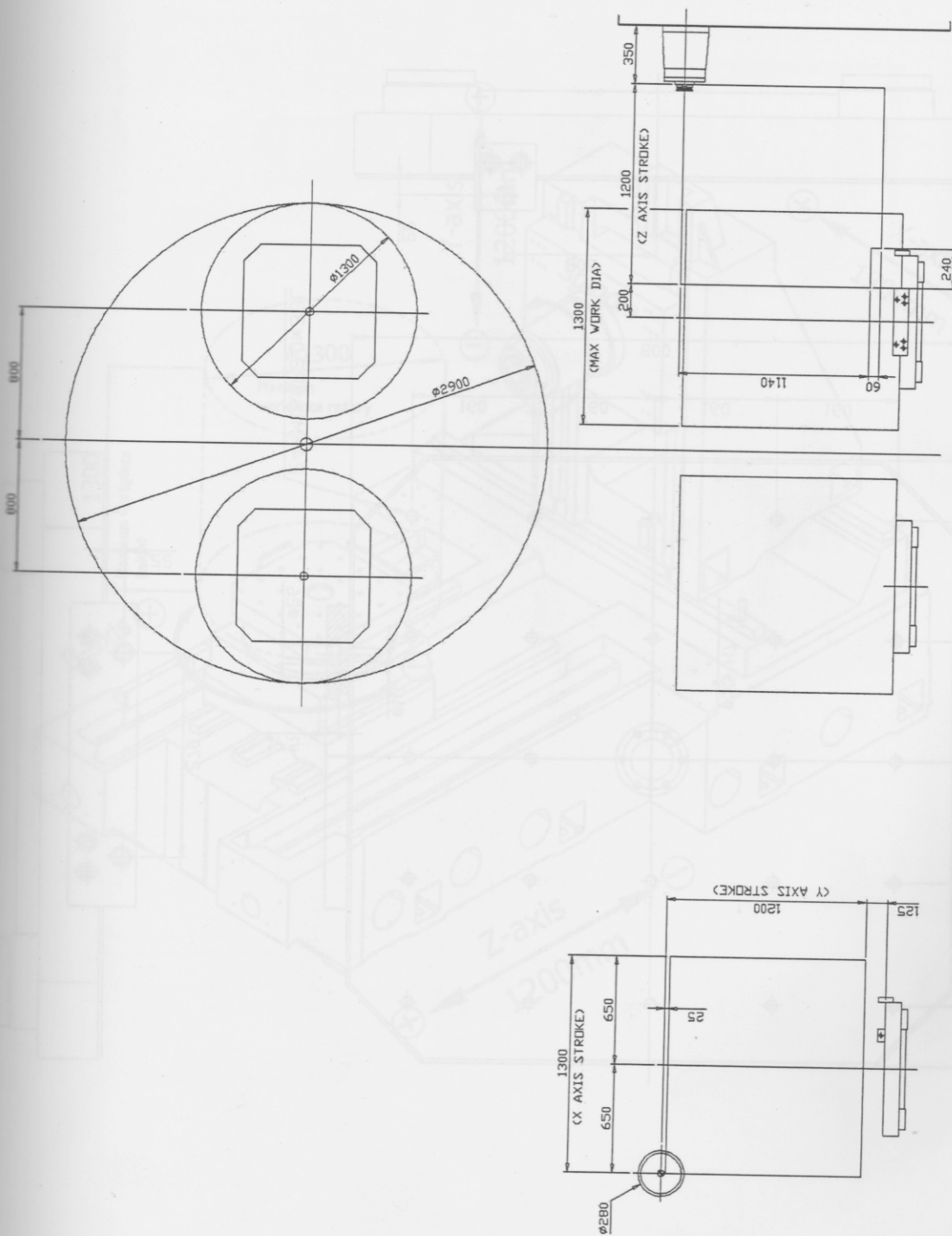


### 2-3-2 Equipments configuration

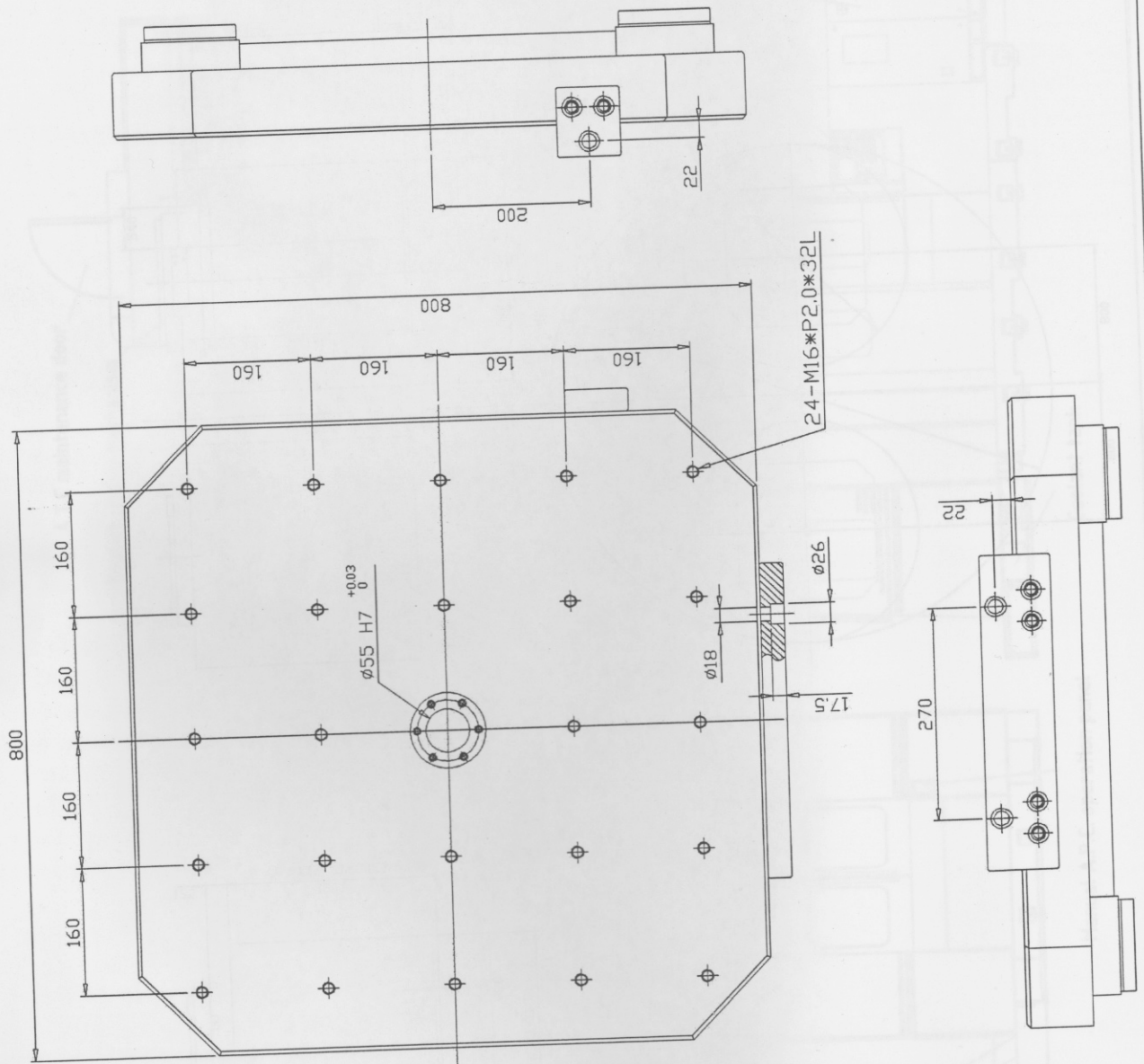


## 2-4 Machine dimension diagrams

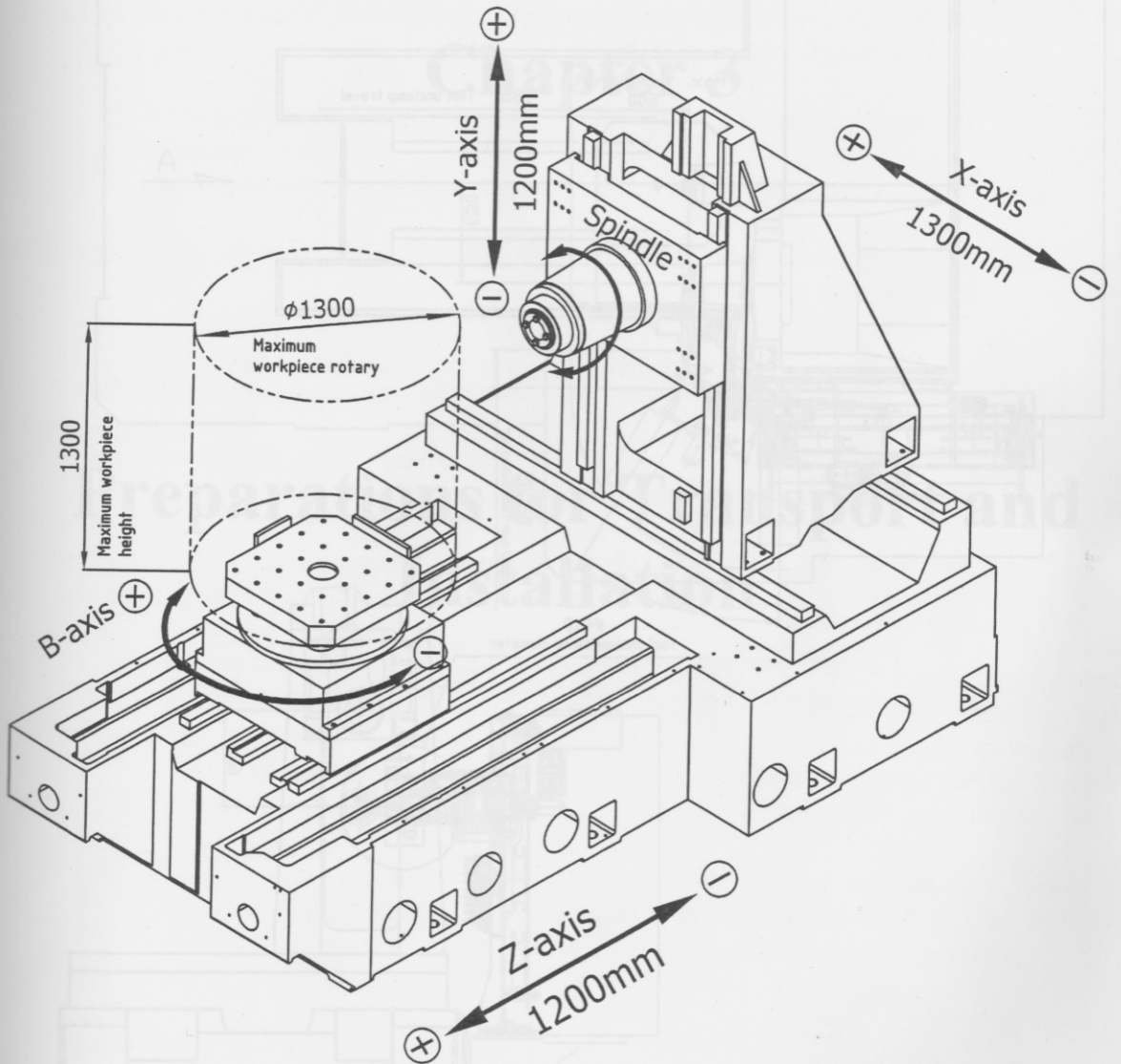
### 2-4-1 Machining range



### 2-4-2 Dimensions of pallet



### 2-4-3 Travel diagrams





2-4-4 Maximum tool changing relationship

