

# 3. Machine specifications



## 3.1 Machine specifications

### 3.1.1 Specification table

#### 3.1.1 Standard Specification

Description	Unit	Specifications			
		PUMA 350A	PUMA 350B	PUMA 350LA	PUMA 350LB
Capacity :		700(27.56)			
Swing over bed	mm(in.)	480(18.90)			
Swing over saddle	mm(in.)	480(18.90)			
Recom. machining dia.	mm(in.)	305(12.01)	380(14.96)	305(12.01)	380(14.96)
Max. machining dia.	mm(in.)	550(21.65)			
Max. work length	mm(in.)	1,050(41.34)		2,100(82.68)	
Draw tube dia.	mm(in.)	91(3.58)	117.5(4.63)	91(3.58)	117.5(4.63)
Travels :					
X axis	mm(in.)	362(87+275){14.25(3.42+10.83)}			
Z axis	mm(in.)	1,105(43.50)		2,155(84.84)	
C axis	deg	-			
Spindle :					
Chuck dia.	mm(in.)	305(12.01)	381(15)	305(12.01)	381(15)
Speed range	rpm	30-3,000	20-2,000	30-3,000	20-2,000
Spindle nose	ASA#	A2-8	A2-11	A2-8	A2-11
Spindle bore dia.	mm(in.)	102(4.02)	132(5.20)	102(4.02)	132(5.20)
Bearing dia.(Front)	mm(in.)	160(6.30)	180(7.09)	160(6.30)	180(7.09)
Turret :					
No. of tool stations(Type)	st.	12(Base holder)	10(Base holder)	12(Base holder)	10(Base holder)
OD tool height	mm(in.)	25(1)			
Boring bar dia.	mm(in.)	50[63] (2 [2-1/2])			
Indexing time	sec	0.25(1st. swivel)			
Feedrates :					
Rapid traverse	mm/min	X : 16,000/Z : 20,000		X : 16,000/Z : 18,000	
Cutting feed	mm/rev	X, Z : 0.001~500.000			



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Description	Unit	Specifications			
		PUMA 350A	PUMA 350B	PUMA 350LA	PUMA 350LB
<b>Tail stock :</b>					
Quill dia.	mm(in.)		120(4.72)		
Quill bore taper	MT#		MT#6		
Quill travel	mm(in.)		120(4.72)		
<b>Motor :</b>					
Spindle(Cont./30min)	kW	18.5/22(22/26)	22/26(30/37)	18.5/22(22/26)	22/26(30/37)
Rotary tool(Cont./30min)	kW				
Feed drives	kW	X : 3.8 / Z : 5.0		X : 3.8 / Z : 5.9	
Coolant pump	kW	0.24			
<b>Power requirements :</b>	kVA	45(50)	50(60)	45(50)	50(60)
<b>Machine size :</b>					
Height	mm(in.)	2,305(90.74)		2,317(91.22)	
Floor space	mmxmm (inxin)	3,900x2,180 {153.54x85.83}		5,020x2,180 {197.64x85.83}	
Weight(W/CNC system)	kgf	8,200		9,800	
<b>CNC system :</b>		FS18T-C(M520L, FS16T-C)			

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## 3.1.2 DHAC Specification

Description	Unit	Specifications			
		PUMA 350A	PUMA 400	PUMA 350LA	PUMA 400L
<b>Capacity :</b>					
Swing over bed	mm(in.)	700(27.56)			
Swing over saddle	mm(in.)	480(18.90)			
Recom. machining dia.	mm(in.)	315(12.40)	380(14.96)	315(12.40)	380(14.96)
Max. machining dia.	mm(in.)	550(21.65)			
Max. work length	mm(in.)	1,050(41.34)		2,100(82.68)	
Draw tube dia.	mm(in.)	91(3.58)	117.5(4.63)	91(3.58)	117.5(4.63)
<b>Travels :</b>					
X axis	mm(in.)	362(87+275){14.25(3.42+10.83)}			
Z axis	mm(in.)	1,105(43.50)		2,155(84.84)	
C axis	deg	-			
<b>Spindle :</b>					
Chuck dia.	mm(in.)	305(12.01)	381(15)	305(12.01)	381(15)
Speed range	rpm	30-3,000	20-2,000	30-3,000	20-2,000
Spindle nose	ASA#	A2-8	A2-11	A2-8	A2-11
Spindle bore dia.	mm(in.)	102(4.02)	132(5.20)	102(4.02)	132(5.20)
Bearing dia.(Front)	mm(in.)	160(6.30)	180(7.09)	160(6.30)	180(7.09)
<b>Turret :</b>					
No. of tool stations(Type)	st.	12(Base holder)	10(Base holder)	12(Base holder)	10(Base holder)
OD tool height	mm(in.)	25(1)			
Boring bar dia.	mm(in.)	50[63] (2"[2-1/2"])			
Indexing time	sec	0.25(1st. swivel)			
<b>Feedrates :</b>					
Rapid traverse	mm/min	X : 16,000/Z : 20,000		X : 16,000/Z : 18,000	
Cutting feed	mm/rev	X, Z : 0.001-500.000			
<b>Tail stock :</b>					
Quill dia.	mm(in.)	120(4.72)			
Quill bore taper	MT#	MT#6			
Quill travel	mm(in.)	120(4.72)			

Specification table



# 3. Machine specifications

Description	Unit	Specifications			
		PUMA 350A	PUMA 400	PUMA 350LA	PUMA 400L
<b>Motor :</b>					
Spindle(Cont./30min)	kW	22/26	30/37	22/26	30/37
Rotary tool(Cont./30min)	kW	-			
Feed drives	kW	X : 3.8 / Z : 5.0		X : 3.8 / Z : 5.9	
Coolant pump	kW	0.24			
<b>Power requirements :</b>	kVA	50	60	50	60
<b>Machine size :</b>					
Height	mm(in.)	2,305(90.74)		2,317(91.22)	
Floor space	mmxmm (inxin)	3,900x2,180 {153.54x85.83}		5,020x2,180 {197.64x85.83}	
Weight(W/CNC system)	kgf	8,200		9,800	
<b>CNC system :</b>		FS18T-C(M520L, FS16T-C)			

Part List



# 3. Machine specifications

3.2 Dimensional drawings  
3.2.1 PUMA 350A/PUMA 350B/PUMA 400

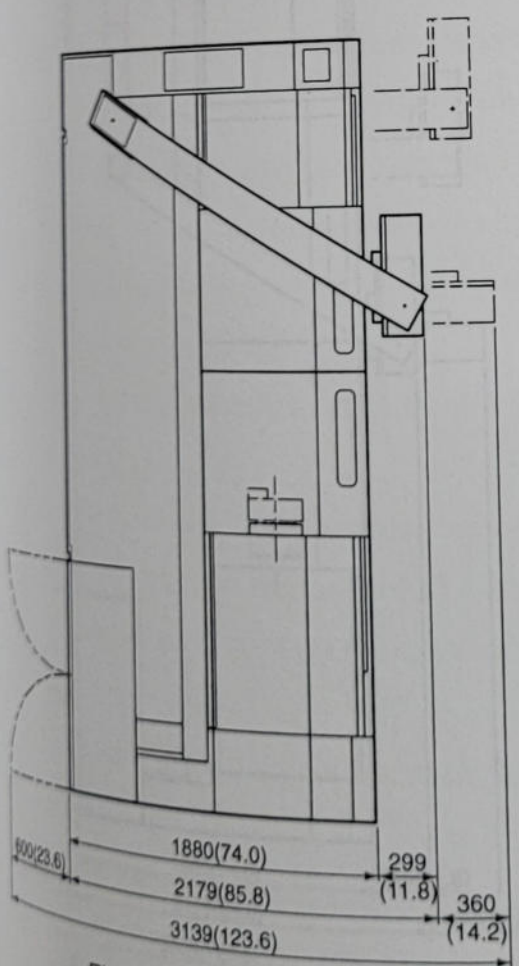
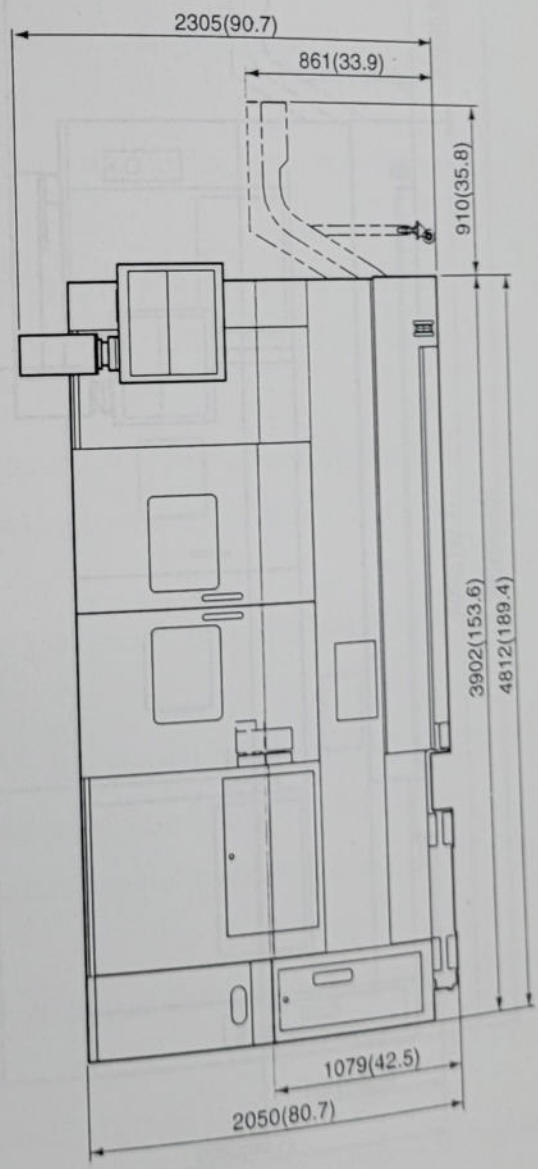
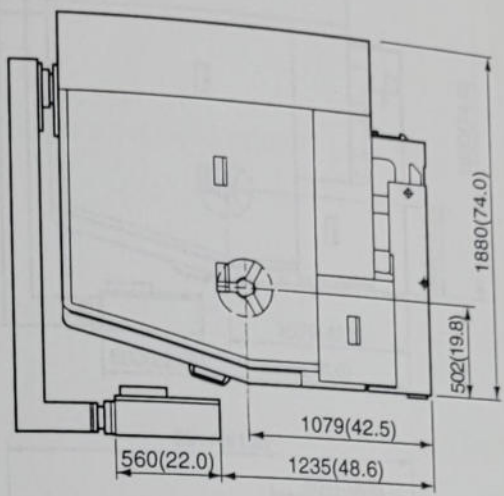


Fig. 3-1 Dimensional drawings(PUMA 350A/PUMA 350B/PUMA 400)

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3.2.2 PUMA 350LA/PUMA 350LB/PUMA 400L

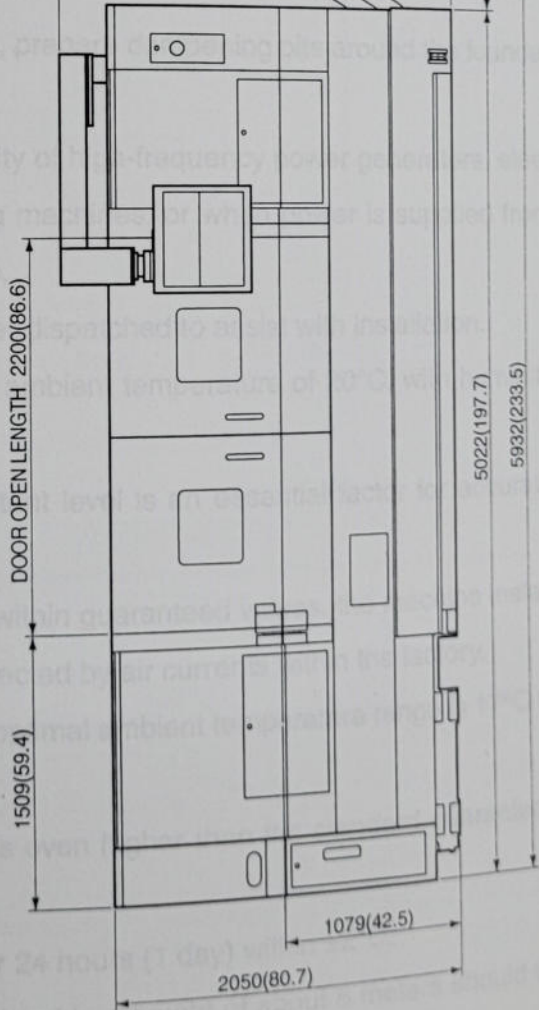
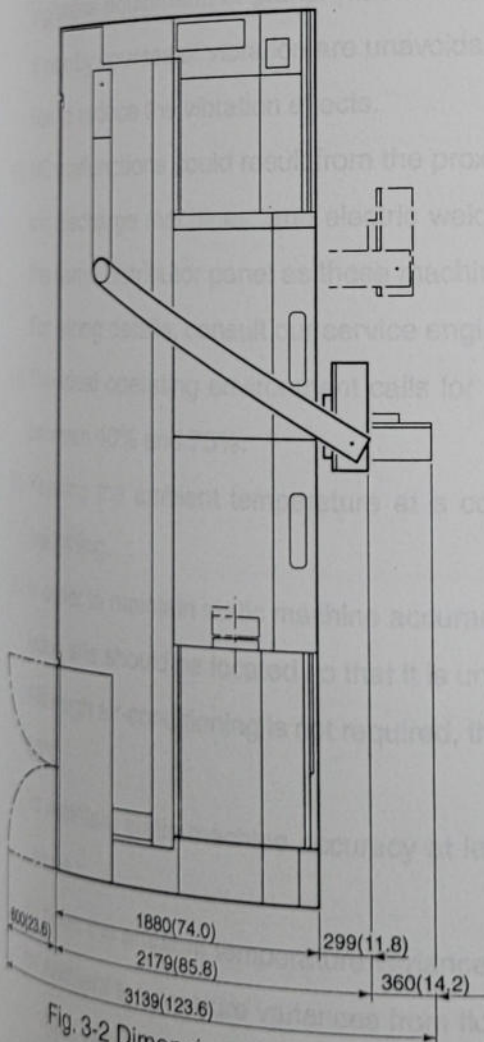
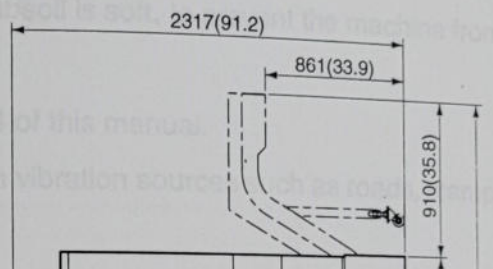
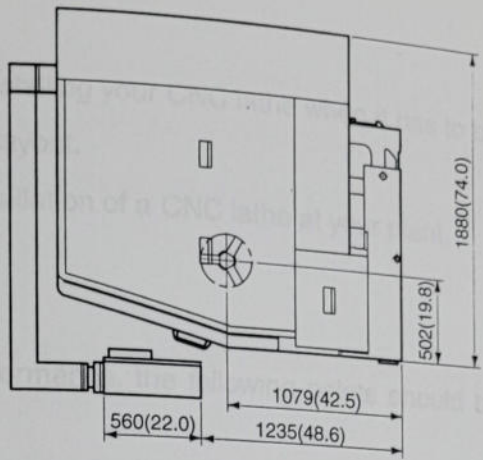


Fig. 3-2 Dimensional drawings(PUMA 350LA/PUMA 350LB/PUMA 400L)



VIETNAM L'ACCESSO PRIMA  
SIA STATA TOLTA TENSIONE.

KEIN ZUGANG FÜR UNBEFUGTE

ENTREE/INTERDITE AUX  
PERSONNES SANS AUTORISATION

SOLO PERSONAL AUTORIZADO

L31683164B



## CNC LATHE

MODEL : PUMA

SERIAL NO. :

POWER SOURCE : AC200/220V, 3 $\phi$ , PE, 50/60HZ

RATED CAPACITY :  KVA

FULL LOAD CURRENT :  A

INTERRUPTION CAPACITY :  A

ELECTRIC DRAWING EDITION :

MANUFACTURED :



# DAEWOO

DAEWOO HEAVY INDUSTRIES &  
MACHINERY LTD.

601-3, Namsan-dong, Changwon, Korea

L31681144C

MACHINE TOTAL WEIGHT : 8,200Kgf

Note) Machine total weight can be changed  
when special specifications or  
options are included.

L33881384\_PUMA200



F4.1.9

TRIP ON (I)