								A CONTRACTOR OF
Ì	Drivebeltcover	A1A 000 010		UO	4			
ł	machine bed, long	A1A 020 000 SW				U1		
	Countershaft	A1M 035 000	the same					
ı	Cross slide CNC	164 060 CNC		10				
	Motor	162 420 MH S						
ı	Machine bed, short	A1A 010 00 SW			U7			
ı	Longitudinal slide CNC	164 480 CNC						
t	Intermediate piece	A1M 000 100		112111				
ı	Collet 1/8"	164 460 1/8"	_/	U2ML				3
ı	Screw driver #2	ZWZ 980 010				The same of the sa		
ı	Screw driver allen key	ZWZ 980 075			0 110	35		
Ī	Screw M4x10	ZSR M40 410			0	TI	•	
1	Screw M4x8	ZSR M40 408		0		W. C	U10ML	
1	Screw M4x6	ZSR M40 406					4	
1	Slot nut '	A1A 060 040		U3CNC	U15A		Philips	
1	Clamping plate	A1A 010 020	100		_			
1	Collet holder	A1A 000 072	1			U1	5B	
4	Clamping jaw	A1A 000 090			The same of the sa	The state of the s		
1	Screw M4x70	ZSR M40 470			24		U4ML	
1	Allen key 2mm	ZWZ 110 200	Care	30	J.			
1	Rod	ZST 110 345			K	4		
1	Milling head 1.6 mm	F2470 1.60				U80		
1	Drive belt (87)	ZRM 730 087		7		13.		4
1	Allen key 2,5mm	ZWZ 110 250			U9CNC		- 0	
5	- Connection piece	A1A 000 ZIN SK			1		•	
3	Screw M4x12	ZSR M40 412		A F. S.		k		
1	7 mm straddle wrench	ZWZ 100 700					164 0	90
1	14 mm straddle wrench	ZWZ 101 400						
1	Plain washer	ZSB 250 430	1		A diese			
1	Stabilizing plate small	A1Z 470 000		U79		4	G 200	
-	Stabilizing angle Locking nut M4	A1Z 480 000 ZMU 340 120	* no picture		4 5		AL SHAPE	
	Wood mounting plate *			Ura .	U65			
ŀ	Rubber buffer *	101 100		U51 .		U48ML		
	12 V adapter *	161 310		18				U46
-	optional						4 5	9
Ī	Steel vise	164 090	U72				3	
t		101				ues		
1			U71			U52	U66	U56CNC
3				\ \			the second	413
1	U57					Carr.		E.
1			~	•			The state of the s	XY
1		-				ZMU 340 120		83
L	74	- 1		V	-		•	
		1000			, (
1	U37	J31 🕟	U50		- \		U49	
	The state of the s	STATE OF THE PARTY	S. Salar	The same of the sa	•			} [
				U12	ML (1/8")	U47		W
						12-7		

Assembly/General

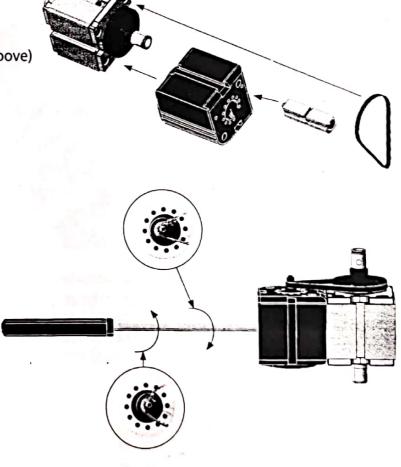
When setting up the UNIMAT CNC please consider the following

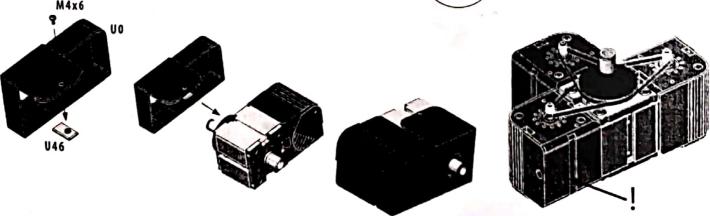
- 1. A screw connecting two metal parts e.g. machine beds, stabilizing plates etc. can be tightened firmly.
- 2. If the metal nut clamps two synthetic parts, (e.g. adjust the sledge movement, adjusting motor speed,...) then screw it down very gently.
- 3. By connecting plastic parts with a metal screw/nut, then screw down very gently e.g. Allen screw into the tailstock housing. The same if the metal screw will be screwed into a plastic part e.g. jig-saw housing.

Assembly of the CNC Vertical milling machine MOTOR-HEADSTOCK Unit M1

- 1. Slide connection piece (U66) into the T-slots (groove) between motor (U4ML) and headstock (U2ML).
- 2. Push headstock (U2ML) across and fix the screw of the connection piece (U66)
- Adjusting the drive belt (U57):
 Tighten U57 with screwdriver. Loosen U57, then start motor. Tighten U57 until motor revolutions slightly reduce and the belt U57 is properly tightened.
- 4. Fixing the drive belt cover (U0).

 Make sure that the belt will not grind inside the cover. Note: fix U0 first when Unimat is completely assembled! Note: fix U0 only after Unimat is completely assembled!



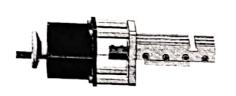


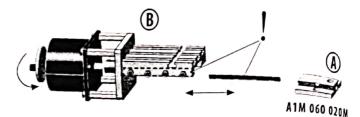
'art list and setup of 3 axes CNC vertical mill

www.youtube.com/thecooltoolog

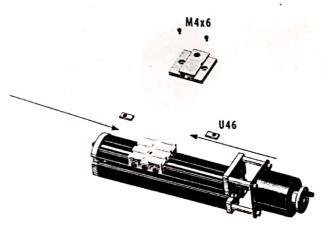
arge slide module M2D

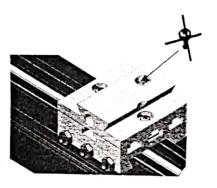
. Cross-slide module with intermediate piece (for Z-axis) M2B: take off cross-slide guide (A1M 060 020M) from the cross-slide body (U3CNC) by turning the hand wheel until it is released



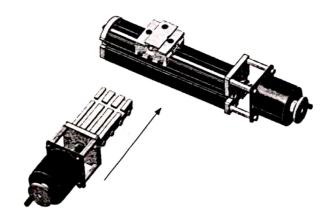


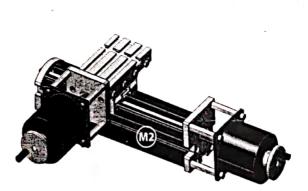
2. Fix the cross-slide guide (A1M 060 020M) to the sattle of the longitudinal slide (U9CNC) with, 3 screws (U38) and 3 clamping plates (U46).





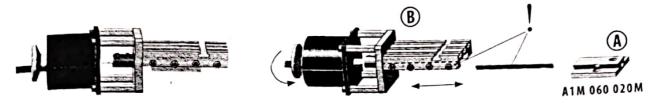
3. Slide modul (M2A) assembly: Slide cross-slide body (U3CNC) over cross-slide guide (A1M 060 020M). Watch the proper position of the gibs between the two parts.



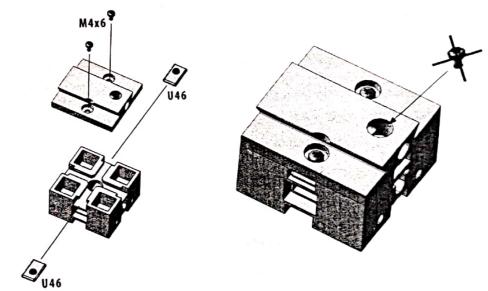


Small slide module M2C

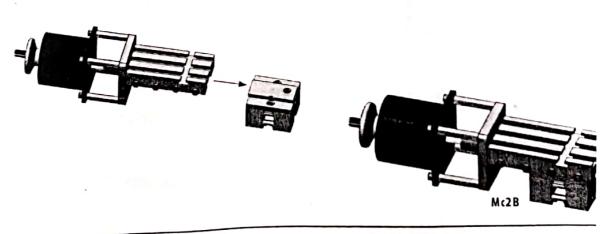
1. Cross-slide module with intermediate piece (for Z-axis) M2B: take off Cross-slide guide (A1M 060 020M) from the cross-slide body (U3 CNC) by turning the hand wheel until it is released.



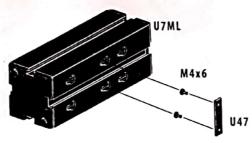
2. Fix the cross-slide guide (A1M 060 020M) to the intermediate piece (U10ML) with 3 screws (U38) and 3 T-slot nut (U46).



3. Slide cross-slide body (U3ML) over cross-slide guide (A1M 060 020M). Watch the proper position of the gibs between the two parts.

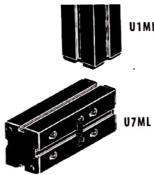


nachine bed (U7) NOTE: do not tighten the screws.

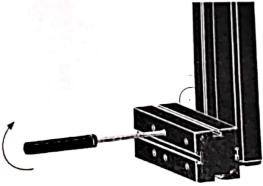




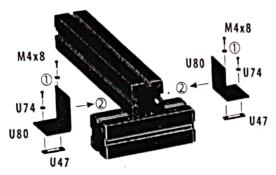
Slide the T-slot of the long macnine peq(UI) over the clamping plate (U47).

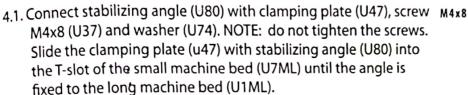


Tighten the screws properly and measure a 90 degree position between the two machine beds.

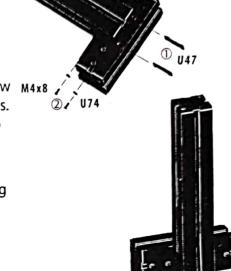


4. Right angle reinforcement by means of stabilizing angle



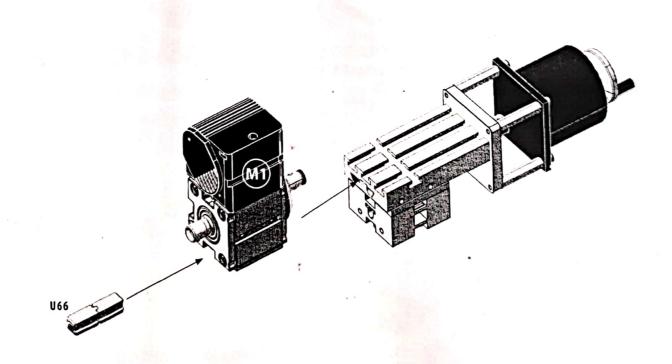


4.2. Slide the second clamping plate (U47) into the T-slot of the long machine bed (U1ML) and fix it with the screws M4x8 (U37) through the stabilizing angle (U80). Now tighten all screws properly.

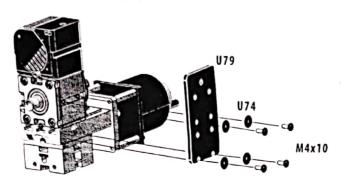


Z-axis motor-headstock unit (Mc4):

1. Fix cross-slide module with intermediate piece (for Z-axis) M2B to motor-headstock unit (U66) with connection piece (U66).



Fix motor-headstock unit (M1A) by means of stabilizing plate (U79). Use screws U31 and plain washer U74.





the Z-axis motor-headstock unit (Mc4) on the vertical machine bed combination.

Slide the connection piece (U66) into the T-slot of the intermediate piece (U10ML). Then slide it into the T-slot of the long machine bed U1ML). Find the right position (depending of the work piece size). Now tighten the screws properly.

