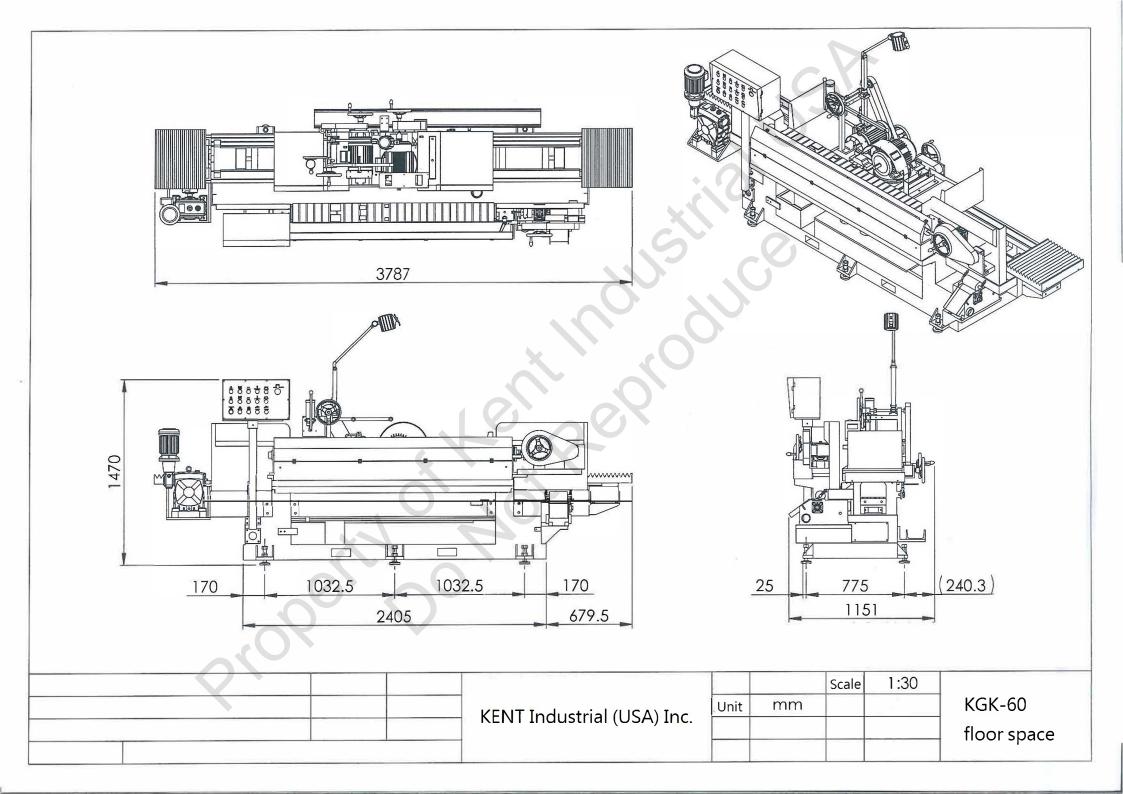
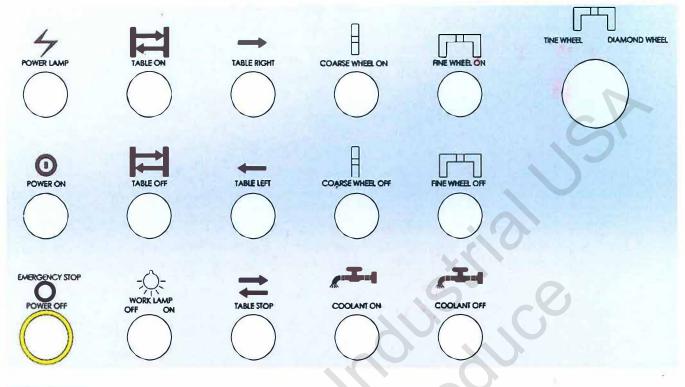


KENT USA KGK-60 Knife Grinders Manual





****Mechanical control panel**





[Power Lamp]

When press the button of "Power On", the power lamp will light.



[Power On]

The main power of machine - ON



[Power Off]

The main power of machine - OFF



[Table On]

Grinding wheel shaft set starts right-left moving.



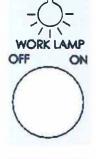
[Table Off]

Grinding wheel shaft set stops right-left moving.



[Work Lamp]

Switch ON/OFF the work lamp.

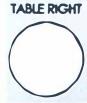


Work Lamp

[Table Right]



Grinding wheel shaft set starts rightward moving.



[Table Left]

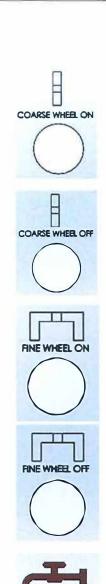
Grinding wheel shaft set starts leftward moving.



[Table Stop]

Grinding wheel shaft set stops right-left moving.





[Coarse Wheel On]

Coarse grinding wheel starts rotating.

[Coarse Wheel Off]

Coarse grinding wheel stops rotating.

[Fine Wheel On]

Fine grinding wheel starts rotating.

[Fine Wheel Off]

Fine grinding wheel stops rotating.

[Coolant On]

Water pump starts working.

COOLANT ON

[Coolant Off]

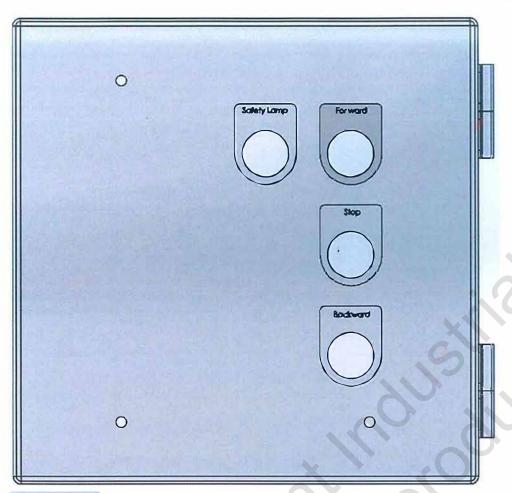
Water pump stops working.

COOLANT OFF

TINE WHEEL DIAMOND WHEEL

Low Fast The rotation fast/low speed of fine/coarse

Switch turns left is low speed and turns right is fast speed.





[Forward]

Electromagnetic chuck rotates forward.



[Backward]

Electromagnetic chuck rotates backward.



[Stop]

Electromagnetic chuck stops rotating.



[Safety Lamp]

When the indicator of the electromagnetic chuck lights up, it means the electromagnetic chuck can be moved forward or backward.

Preface:

Your smart decision to buy Automatic Knife Grinder is highly appreciated. A machine is satisfied that not only depends on the manufacture's quality guarantee but also depends on the suitable maintenance of operators. However, good maintenance is especially important.

In this pamphlet of "Operation and Maintenance Instruction Manual", a right operation and maintenance procedure are explained briefly. To understand the afore-mentioned procedure will not only obtain long use from this machine but also promote the working efficiency.

A. Features:

- 1. With coarse and fine fined wheels independently mounted, the knives can be sharpened accurately in a short time and no more handwork is required.
- 2. It is not necessary to adjust the knives angle from rough to fine grinding. The grinding process is clearly visible so that the operator can easily run the machine.
- 3. The table can be steadily moving back and forth controlled by an electro magnetic control devise.
- 4. The sliding parts are well lubricated by "One shot Lubrication System".

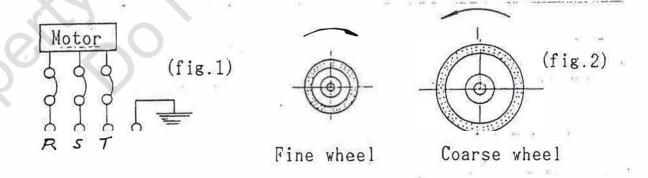
B. Specification:

Grinding capacity (LxWxT)		1600 x 153 x 19mm (63"x 6"x 3/4")			
Sped of grinding wheel		1700 R.P.M.			
Coarse wheel	Ø255 x 133 x Ø31.75mm				
Fine wheel	Ø150 x 65 x Ø50.8mm				
		(9)			
		70, 110			
Coarse wheel	7.5HP (4	P)			
Fine wheel	1HP (4Px2P)				
Automatic table	Knife holder turning made 40W				
Cooling system	1/8HP				
ibrication	YES				
ze (LxWxH)	3800x1100x1550mm (150"x43"x61")				
Packing size (LxWxH)		3880x1280x1750mm (153"x51"x69")			
	2300kgs (5060 lbs)				
cht	2700kgs (5940 lbs)				
	Coarse wheel Fine wheel Fine wheel Fine wheel Automatic table Cooling system brication ze (LxWxH)	Coarse wheel Coarse wheel Fine wheel Coarse wheel Coarse wheel Toarse wheel Coarse wheel Toarse wheel The wheel Automatic table Cooling system The wheel The wheel Cooling system The wheel The wh			

C. Installation:

- 1.Please put this machine over flat and rigid concrete basement. In order to assure working precision, please make working table horizontal by adjusting base screws.
- 2. Power Connecting: There is electrical wire on the left hand side of the machine base. Connect the wires to power source correctly and let earth wire grounded. (fig. 1) coarse wheel: rotate counterclockwise.

fine wheel: rotate clockwise. (fig. 2)



D. Lubrication:

- 1. Pump grease into grease nipples in a proper period.
- 2. Put lubricant into oil cup and manual pump when oil is near empty.

E. Care must be taken before operation

Please be sure to clean antirust grease and the dirt all over the machine. Also check following items respecitively before operation.

- 1. Check grinding wheel by hand to see if the must fixed or not.
- 2. Check the slide way smoothly moving or not.
- 3. Make sure coolant is filled with tank.
 - (Proporation should be 1 to 30).
- 4. Check the power connection properly or not.

F. Control panel:

1. Coarse wheel. ON - OFF

Fine wheel. ON - OFF

: Table power feed. ON - OFF

: Push then push this button

to move table right direction.

-- Push then push this button

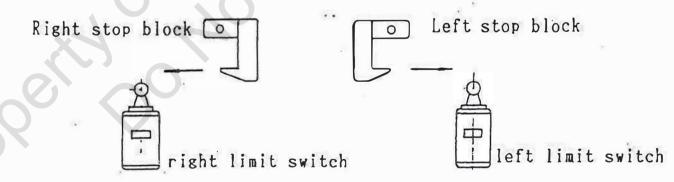
to move table left direction.

STOP : Purse stop the movement on table.

: Coolant pump. ON - OFF.

EMERGENCY STOP : Emergency stop button.

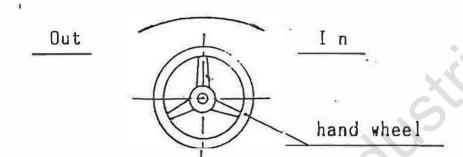
2. Controlling for the working table on longitudinal stroke:



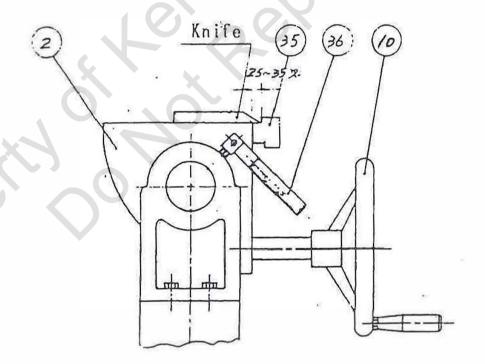
Left stop block : Control working table for left.

Right stop block : Control working table for right.

3.Grinding motor In - Out.



- 5. How to fix the knife on the cutter rest:
- 1) Put the knife on the cutter rest (2), and set the desired extension shap-edge with two measuring magnetism (35).
- (2) Fix the knife with pinch plate
- 3 Lossen the lock handle (36).
- 4 Turn the hand wheel (10), to abtain the desire angle of the knife then fix the lock handle (36).

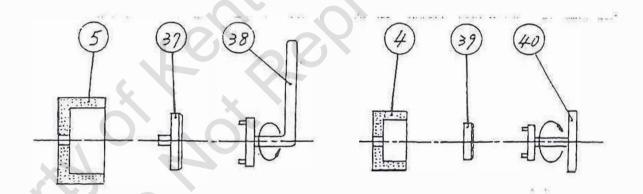


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- 1 Infeed the grinding wheel about 2 m/m. before touching the knife.
- 2 Push the button.
- 3) Push the button. _____ or _____, and lubricate the working table by pulling the one-shot lubrication pump.
- (4) Preset the stroke of the working table.
- ⑤ Push the button. [on, and test for 3 minutes.
- 6 Turn on the cooling pump, and turn on the right coolant valve.
- (7) In feed the right handwheel till the knife is sharpened.
- 8 Push the button. on, and infeed the left handwheel till it is finished 0.5 1 m/m, width on the sharp edge, then turn off the left hand coolant valve.
- 9 Outfeed the left & right grinding wheel, then take off the knife.
- 10 Rotation Left-handed Hand wheel (6), about (15) handle wheel (10), before rotation.

7. How to replace the grinding wheel:

You may loosen the lock nut (37), by nut handle (38) rotate counter clockwise, then replace the new corase wheel (5). And loosen the fine wheel lock nut (39) by nut handle (40) .rotate clockwise, then replace the new fine wheel.

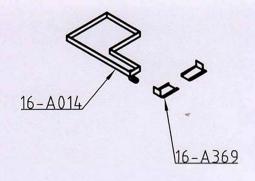


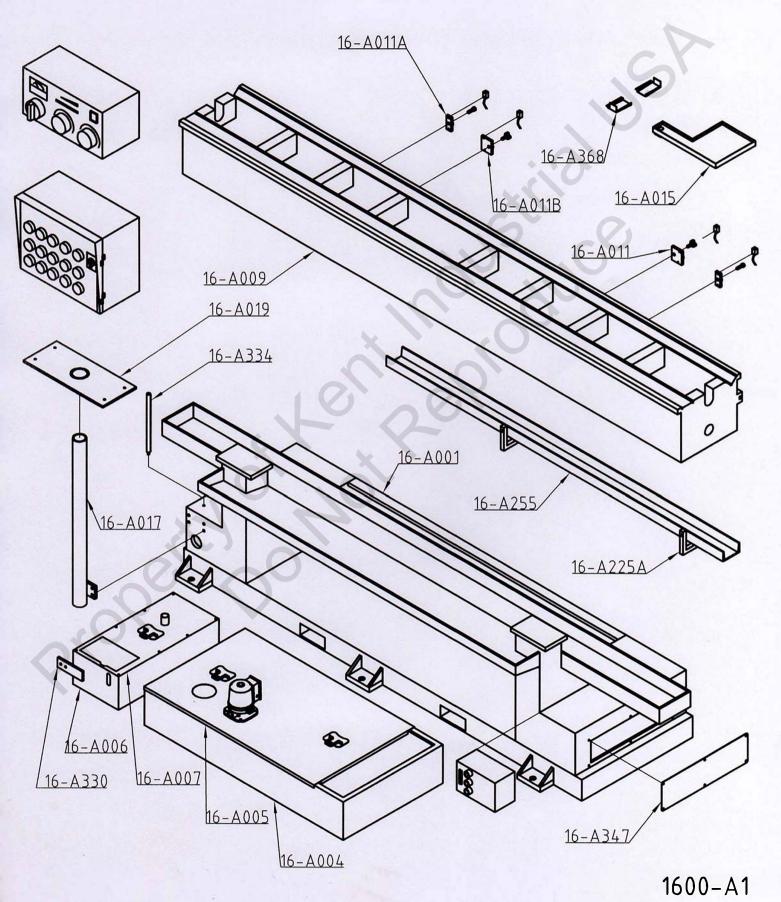
How to order replacement parts:

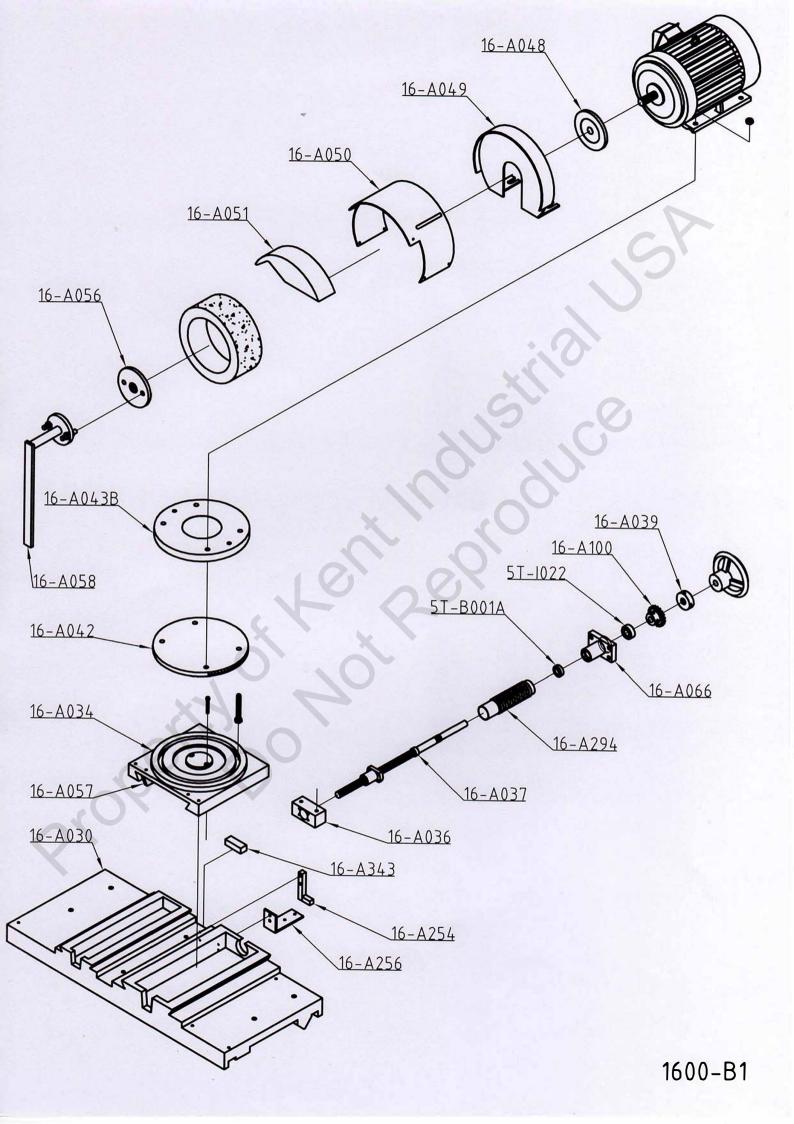
- 1.Please locate serial number (S/N) by checking parts drawing then you are able to get the parts number (P/N) and nomenclature.
- 2.Please advise parts mumber (P/N) and nomenclature whenever you reguire. We will mail replaced parts to you for maintaining our machine in good condition as soon as possible.

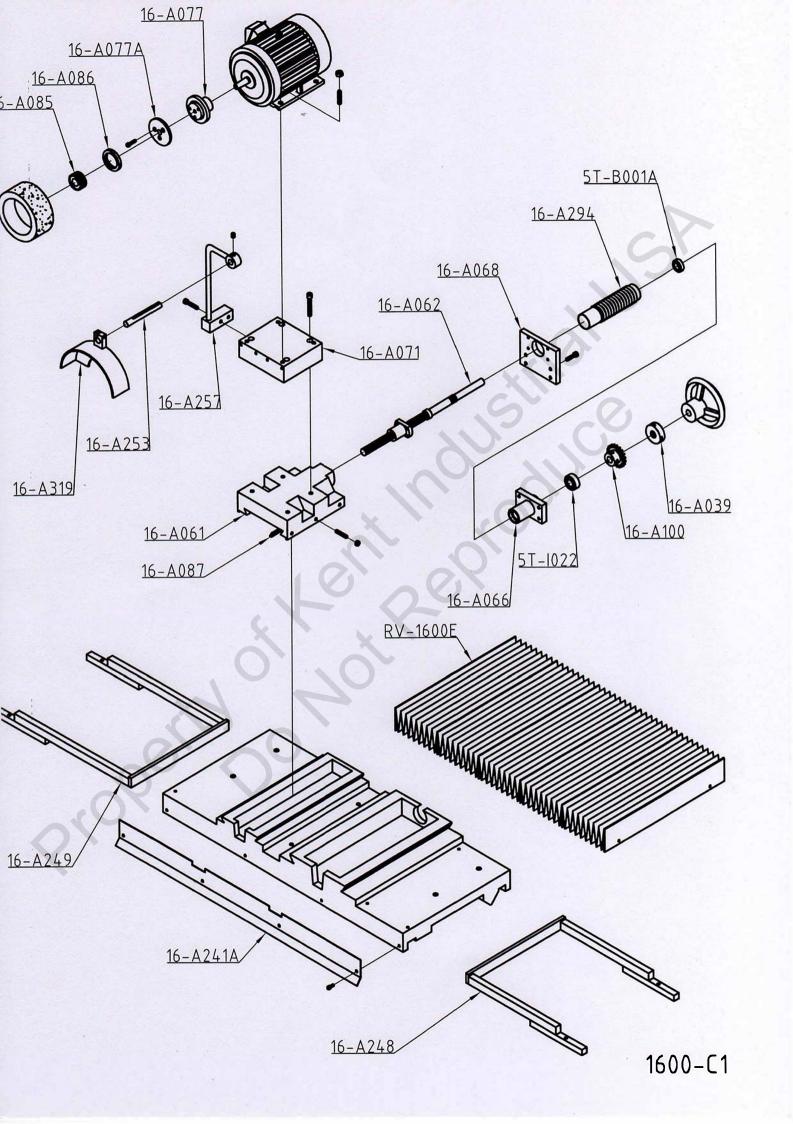
Example

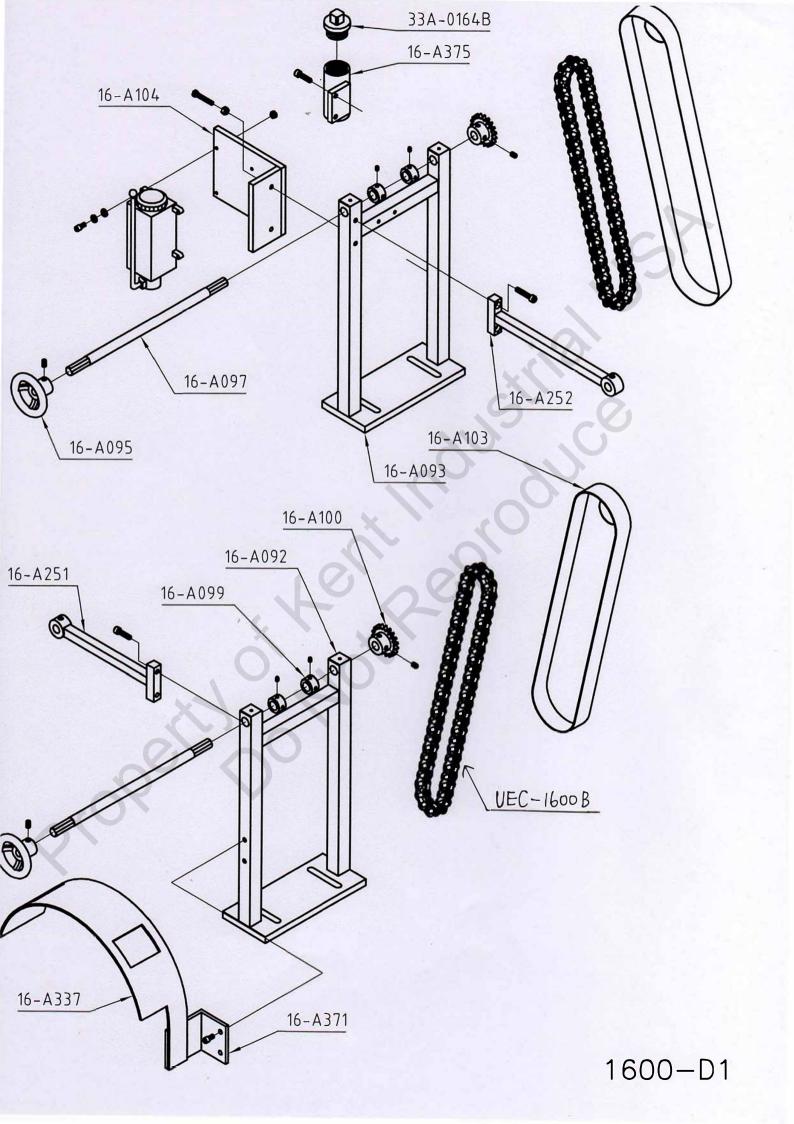
- 1. Parts drawing ----- (5)
- 2. Parts number (P/N) ----- 95 0412.
- 3. Nomenclature ----- coarse grinding wheel.

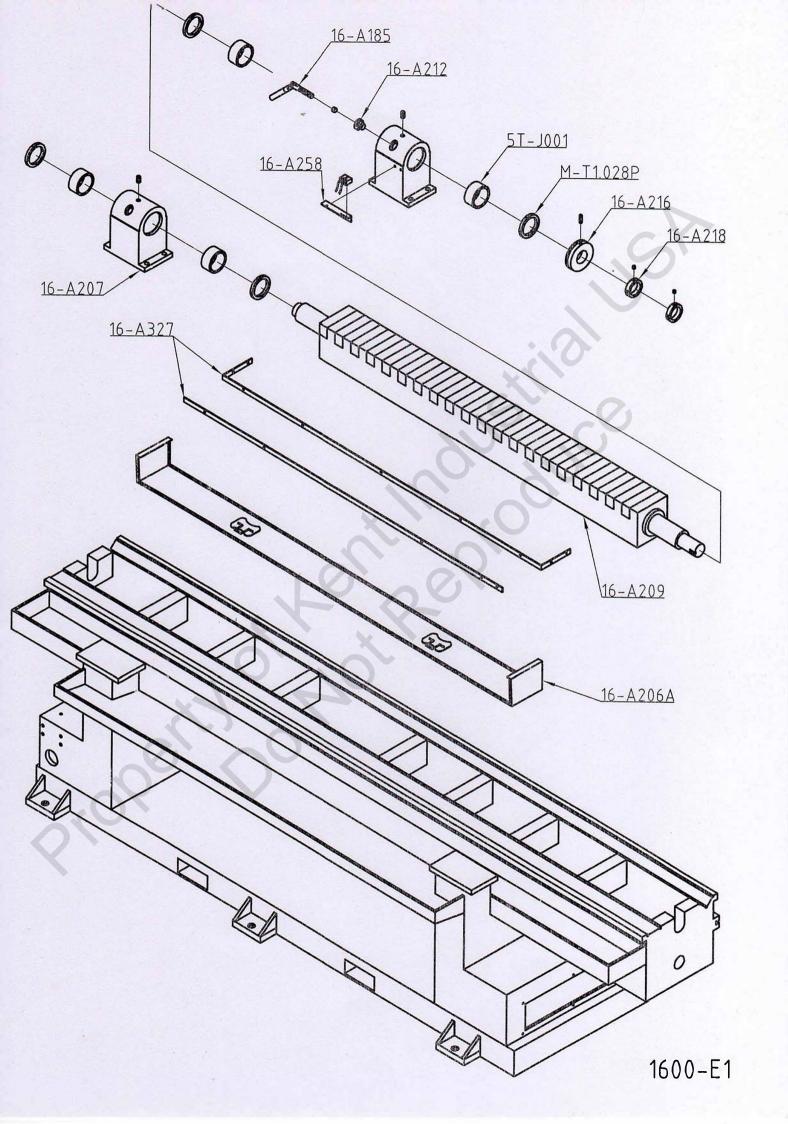


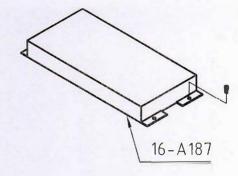


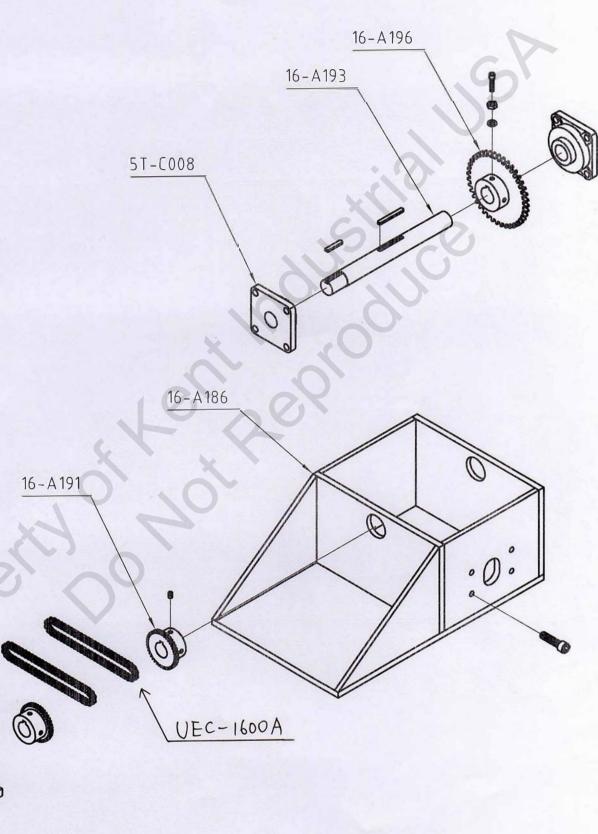




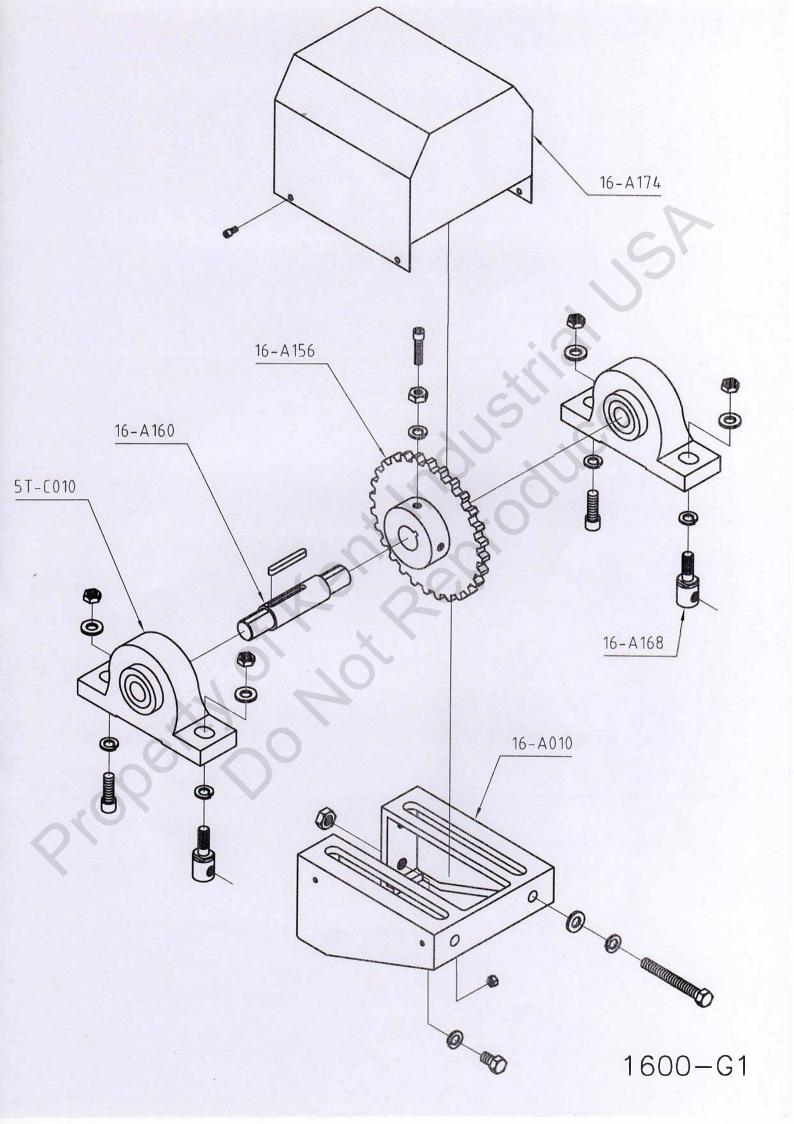


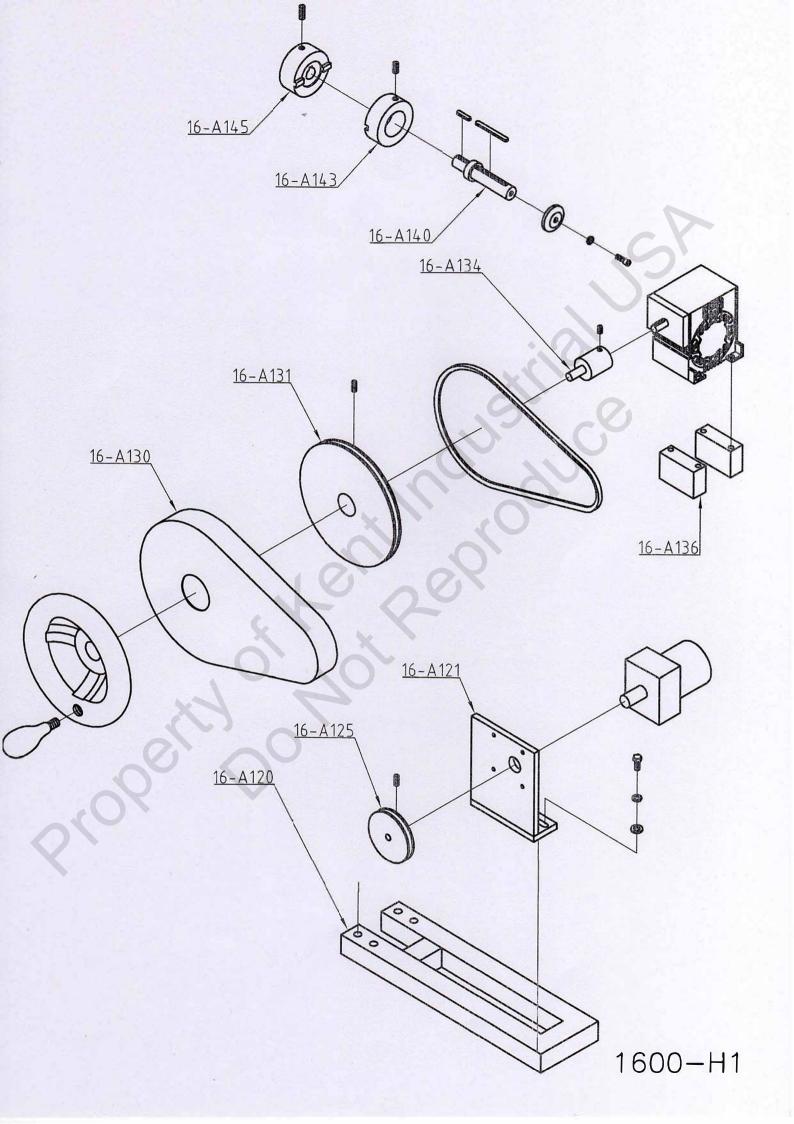


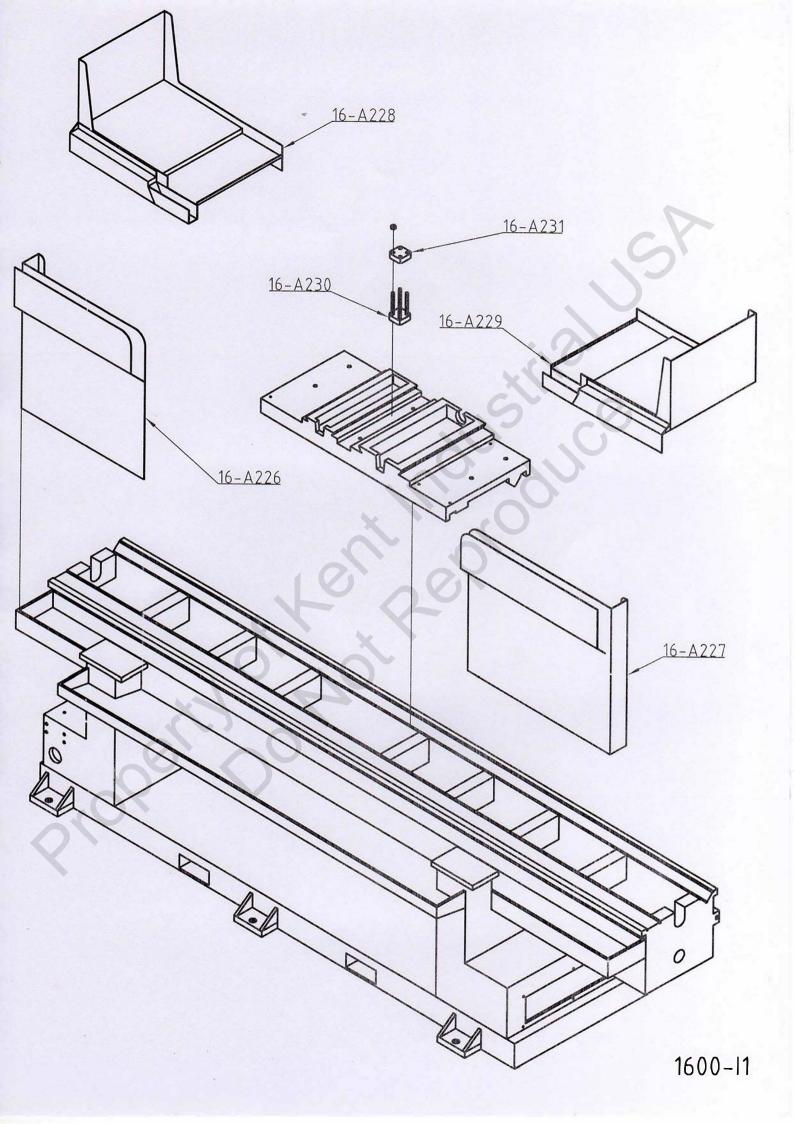




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1600-A1			
PART NO	PART NAME	QTY	REMARKS
16-A001	Machine base	1	
16-A255	Fixing tank	1	
16-A225A	Fixing tank	2	
16-A347	Base door plate	1	(3)
16-A004	Water tank	1	
16-A005	Water tank cover	(1)	
16-A006	Oil tank (A)	1	
16-A007	Oil tank cover	1_(2
16-A330	Oil tank fixing plate	1	
16-A017	Control box fixing seat A	1	
16-A019	Control box fixing seat B	1	
16-A334	Electric cord fixing lever	1	
16-A009	Saddle seat	1	
16-A014	Left recycle tank	1	
16-A369	Guard cover	2	
16-A011A	Horizontal limit switch plate	2	
16-A011B	Horizontal limit switch plate	1	
16-A011	Horizontal limit switch plate	1	
16-A368	Guard cover	2	
16-A015	Right recycle tank	1	

1600-B1			
PART NO	PART NAME	QTY	REMARKS
16-A030	Work table	1	
16-A057	Longitudinal slide seat wedge	1	
16-A034	Longitudinal slide seat	1	
16-A042	Motor rotary seat	1	
16-A043B	Coarse wheel height block	1	
16-A048	Wheel fixing ring	1	
16-A049	Coarse wheel cover support seat	1	
16-A050	Wheel guard cover	10	
16-A051	Coarse wheel front cover A	1	
16-A056	Wheel nut	1	
16-A058	Wheel nut handle	1	
16-A256	Transmission fixing block	1	
16-A254	Horizontal stop block	1	
16-A036	Coarse wheel longitudinal fixing nut	1	Haar T
16-A037	Shaft	1	
16-A294	Micro adjust screw dust cover	1	
5T-B001A	Thrust bearing	1	51104
16-A066	Longitudinal rod screw seat	1	
5T-I022	Roller bearing	1	32004J
16-A100	Hand chain wheel	1	
16-A039	Fixing nut	1	
16-A343	Fence	1	
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1600-C1			
PART NO	PART NAME	QTY	REMARKS
16-A241A	Work table inner fence	1	
16-A249	Left dust cover fixing seat	1	
16-A248	Right dust cover fixing seat	1	C
RV-1600E	Dust cover	2	
16-A087	Left slide seat wedge	1	
16-A061	Fine motor seat A	1	
16-A071	Fine wheel height block	1	
16-A257	Fine wheel cover fixing seat	1.	3
16-A253	Fine wheel cover adjust lever	1	
16-A319	Fine wheel guard cover	1	
16-A077	Fine wheel fixing seat	1	
16-A077A	Fine wheel washer	1	
16-A086	Motor nut pipe (A)	1	
16-A085	Motor nut (A)	1	
16-A062	Shaft (A)	1	
16-A068	Fine wheel front fixing plate	1	
16-A294	Micro adjust screw dust cover	1	
5T-B001A	Thrust bearing	1.	51104
16-A066	Longitudinal rod screw seat	1	
5T-I022	Roller bearing	1	32004J
16-A100	Hand chain wheel	1	
16-A039	Fixing nut	1	

1600-D1			
PART NO	PART NAME	QTY	REMARKS
16-A092	Hand wheel shaft seat (right)	1	
16-A100	Hand chain wheel	2	
16-A099	Hand wheel shaft sleeve	4	
16-A251	Fine wheel water pipe fixing seat	1	(3)
16-A371	Wheel guard cover fixing block	1	
16-A337	Wheel guard cover	1	
16-A103	Chain cover	2	
16-A093	Hand wheel shaft seat (left)	1	3
16-A097	Hand wheel shaft	2	
16-A095	Worm shaft handle	2	
16-A104	Hand pump seat	1	
16-A375	Water pipe fixing seat	1	
33A-0164B	Plug head	1	
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1600-E1			
PART NO	PART NAME	QTY	REMARKS
16-A206A	Moveable water proof plate	1	
16-A327	Magnetic leather fixing plate	1	
16-A209	Magnetic knife holder	1	
16-A207	Horizontal brace seat	2	
16-A258	Magnetic disc indirect fixing seat	1	
16-A212	Fixing shaft	2	
16-A185	Locking screw	2	
5T-J001	Auto lubricate bush	4	70*85*40
M-T1.028P	Oil seal	4	70*90*10
16-A216	Knife holder micro ring	1	
16-A218	Knife holder auto stop ring	2	
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1600-F1			
PART NO	PART NAME	QTY	REMARKS
16-A186	Transmission shaft reduction fixing seat	1	
16-A191	Reduction transmission key gear	1	
5T-C008	Coupling seat bearing	2	UCF-208
16-A193	Reduction transmission shaft	1	(2)
16-A196	Transmission key gear	1	
16-A187	Driven key gear	1	
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1600-G1			
PART NO	PART NAME	QTY	REMARKS
16-A010	Driven shaft seat	1	
16-A156	Reduction motor transmission key gear A	1	
16-A160	Driven shaft	1	
5T-C010	Coupling seat bearing	2	UCP-205-16
16-A168	Adjust screw	2	
16-A174	Driving chain gear guard cover	1	
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1600-H1			
PART NO	PART NAME	QTY	REMARKS
16-A120	Knife holder auto fixing reduction motor seat	1	
16-A121	Knife holder transmission fixing plate	1	
16-A125	M transmission pulley (A)	1	
16-A136	Knife holder reduction motor height block	2	
16-A140	Reduction transmission shaft A	1	
16-A143	Knife holder transmission ring (B)		
16-A145	Knife holder transmission ring (A)	1	
16-A134	Reduction transmission shaft B	1	3
16-A131	M transmission pulley	1	
16-A130	Work table pulley guard	1	
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1600-I1			
PART NO	PART NAME	QTY	REMARKS
16-A226	Left splash guard	1	
16-A227	Right splash guard	1	
16-A230	Chain fixing plate A	1	
16-A231	Chain fixing plate B	1	
16-A228	Work table left splash guard	1	
16-A229	Work table right splash guard	1	
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