

## Datenblatt zur Lager-Nr. L6760

<b>Typ</b>	: Universalfräsmaschine UM-320F		
<b>Fabrikat</b>	: Link		
<b>Maschinen-Nr.</b>	: 1601196		
<b>Baujahr</b>	: 2016 - Vorführmaschine		
<b>Techn. Daten</b>	: X-Achse: 400 mm	: Y-Achse: 200 mm	: Z-Achse: 380 mm



<b>Zubehör</b>	: 3-Achsen Digitalanzeige ARBAH - M Vertikalfräskopf SK 40 mit Anzugsgewinde M16 Festtisch 750 x 320 mm mit Umhausung (T-Nut: 14 mm) Kühlmitteleinrichtung Zentralschmierung, elektrisch Futterschutzhaube, elektrisch gesichert Lagerbock zum Horizontalfräsen Vier lange Fräsdorne Maschinenlampe Bedienungsanleitung (Englisch)
<b>Maße/Gewicht</b>	: ca. 1200 x 1300 x 1800 mm (LxBxH) / 1300 kg



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	<b>ITEMS</b>	<b>UM-320F</b>
<b>TABLE</b>	Table size	320 x 750
	Vertical table size	250 x 880
	T-slots, Work Table	14 x 63 / 5no.
	T-slots, Vertical Table	14 x 126 / 2no.
	Table load capacity (kg)	285
<b>TRAVEL</b>	X axis (Manual/Auto)	400 / 385
	Y axis (Manual/Auto)	200 / 185
	Z axis (Manual/Auto)	380 / 365
<b>VERTICAL SPINDLE</b>	Spindle nose	NT-40 (ISO-40)
	Range of Spindle speed	12 no. 50 – 2000 rpm
	Spindle travel	100
	Swiveling angle	+/-90°
	Spindle nose to Table	65 – 458
	Center to Column	Min. 280
	Center to Column	Max. 485
<b>HORIZONTAL SPINDLE</b>	Spindle Nose	NT-40 (ISO-40)
	Range of Spindle speed	12 no. 50 – 2000 rpm
	Center to Table surface	35 – 415
<b>FEED</b>	X/Y/Z axes (mm/min)	8 – 450
<b>RAPID FEED</b>	X/Y/Z axes (mm/min)	1000
<b>MOTOR</b>	Motor for Ver./Hor. (kw)	2.2
	Table feed (3- axes) (kw)	0.35
	Coolant Pump (kw)	0.09
<b>SIZE</b>	Machine dimension(cm)	120 x 130 x 180
	Net weight (kg)	1180
	Gross weight (kg)	1267

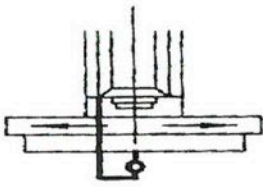
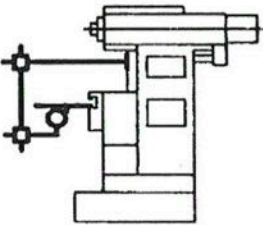
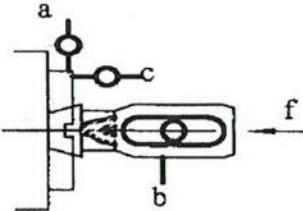
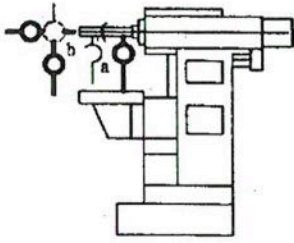
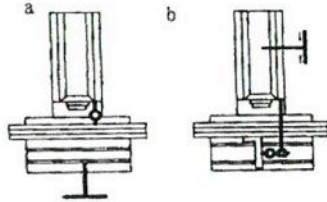
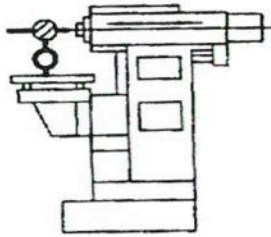
# ACCURACY INSPECTION LIST OF UNIVERSAL MILLING MACHINES

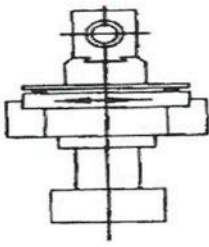
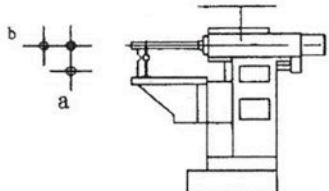
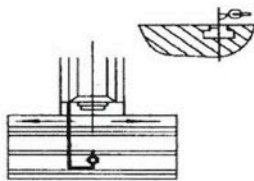
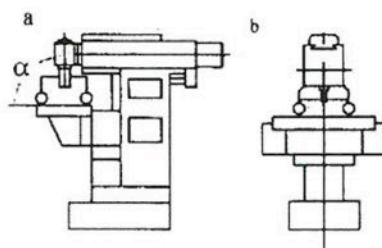
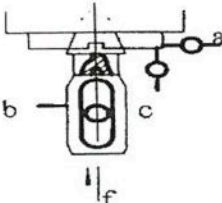
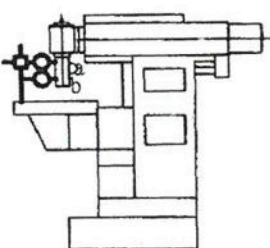
MODEL NO.	MOTOR
<input checked="" type="checkbox"/> UM-320F	3 HP / 50 Hz / 400 V / 3 Ph
<input type="checkbox"/> UM-600F	5 HP / 50 Hz / 400 V / 3 Ph
Serial No.	

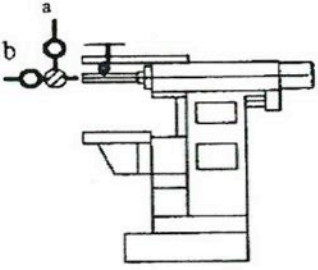
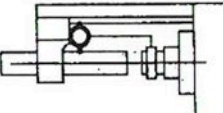
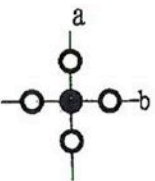
Metric

SER. No.: 1601196 MFG. DATE: 2016-01-21

No.	ILLUSTRATIONS	TOLERANCE	ACTUAL
1	<p>Flatness of the horizontal table surface</p>	1000mm length within 0.040mm )	0.030mm
2	<p>Straightness of the vertical movement of the knee:</p> <p>a. in the vertical plane of symmetry of the machine;</p> <p>b. in the plane perpendicular to the vertical plane of symmetry of the machine.</p>	300mm length of test bar for a & b position within 0.05mm	
		a. 0.048mm	b. 0.017mm
3	<p>Squareness of the horizontal table surface to the column ways for knee:</p> <p>a. in the vertical plane of symmetry of the machine;</p> <p>b. in the plane perpendicular to the vertical plane of symmetry of the machine</p>	a. 0.050mm/300mm $\alpha \leq 90^\circ$	0.048mm $\alpha < 90^\circ$
		b. 0.050mm/300mm	0.017mm
4	<p>Parallelism of the vertical table surface to the vertical movement of the knee</p>	Any 300mm length of test bar for a & b position within 0.03mm (Table to forward to the Colum)	0.020mm

No.	ILLUSTRATIONS	TOLERANCE	ACTUAL
5	. Parallelism of the vertical table surface to its longitudinal movement 	To check it at full length within 0.03mm	0,0/0mm
6	Parallelism of the lower side of positioning T slot of the vertical table to its longitudinal movement 	To check it at full length within 0.03mm	0,004mm
7	. Running of the spindle nose: a. run-out of the external centering surface on the spindle. b. periodic axial slip. c. coming of the face of the spindle nose. 	a. 0.010mm	0,008mm
		b. 0.010mm	0,004mm
		c. 0.015mm	0,0/0mm
8	. Run-out of the internal taper of the spindle: a. at the mouth of the taper. b. at a distance of 300mm from the spindle nose. 	a. 0.005mm	0,004mm
		b. 0.020mm	0,0/8mm
9	Queerness of the cross movement of the horizontal spindle slide to the longitudinal movement of the horizontal table 	0.030mm / 300mm	0,006mm
10	. Parallelism of the cross movement of the horizontal spindle slide to the horizontal table surface 	To check it at full length within 0.03mm (Forward to the table surface only)	0,0/2mm

No.	ILLUSTRATIONS	TOLERANCE	ACTUAL	
11	Parallelism of the horizontal table surface to its longitudinally movement		To check it at full length within 0.04mm	<i>0,017mm</i>
12	. Parallelism of the horizontal spindle slide: <b>a.</b> in the vertical plane; <b>b.</b> in the horizontal plane.		300mm length of test bar for a & b position within 0.02mm	a. <i>0,016mm</i> b. <i>0,014mm</i>
13	. Parallelism of the vertical T slot of the horizontal table to its longitudinal movement		To check it at full length within 0.03mm	<i>0,006mm</i>
14	Squareness of the vertical spindle axis to the horizontal table surface: <b>a.</b> in the vertical plane of symmetry of the machine; <b>b.</b> in plane perpendicular to the vertical plane of symmetry of the machine		a. 0.020/300 mm $\alpha \leq 90^\circ$ b. 0.020/300 mm	<i>0,016mm</i> $\alpha < 90^\circ$ <i>0,004mm</i>
15	Running of the vertical spindle nose: <b>a.</b> run-out of the external centering surface on the spindle nose; <b>b.</b> the face of the spindle.		a. 0.010 mm b. 0.010 mm c. 0.015 mm	<i>0,006mm</i> <i>0,004mm</i> <i>0,014mm</i>
16	Running of the internal taper of vertical spindle: <b>a.</b> at the mouth of the taper; <b>b.</b> at a distance of 300mm from the spindle nose.		a. 0.010 mm b. 0.020 mm	<i>0,002mm</i> <i>0,017mm</i>

No.	ILLUSTRATIONS	TOLERANCE	ACTUAL
17	Parallelism of the vertical spindle axis to the movement of the vertical spindle quill: <b>a.</b> in the vertical plane of symmetry of machine. <b>b.</b> in plane perpendicular to the vertical plane of symmetry of machine.	a. 0.010 mm	0,004mm
		b. 0.010 mm	0,006mm
18	Parallelism of the ram movement of the horizontal spindle. <b>a.</b> in the vertical plane; <b>b.</b> in the horizontal plane.		300mm length of test bar for a & b position within 0.02mm (For UM320F Only ) a. 0,016mm b. 0,010mm
19	Coincidence of the axis of the bore of the arbor support with the horizontal spindle axis; <b>a.</b> in the vertical plane; <b>b.</b> in the horizontal plane.		a. 0.020 mm
			b. 0.030 mm

Check By : *Chuang Yu Fang*

Date: *2016-01-21*