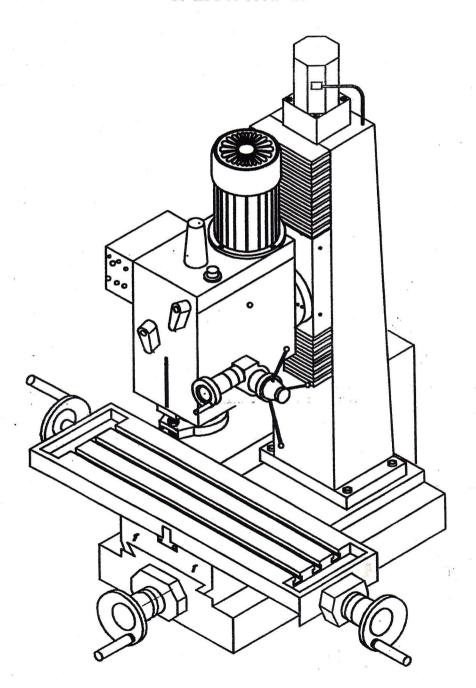
ZX-45Z

MILLING-DRILLING MACHINE TOOLS OPERATING MANUAL



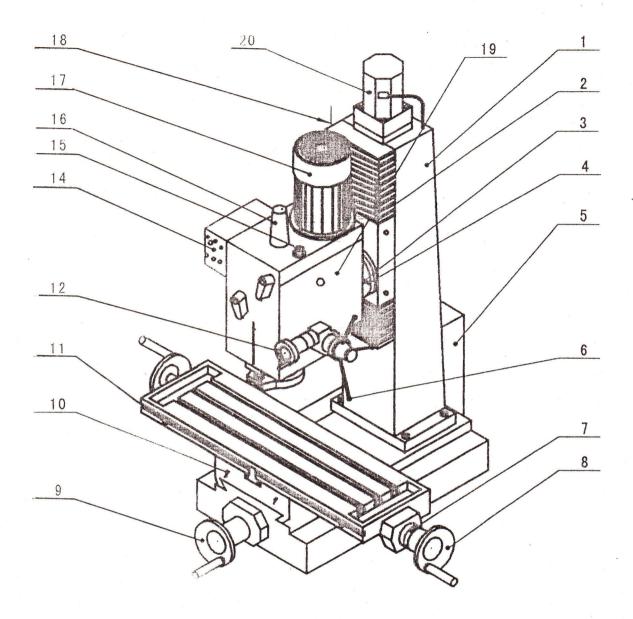


Fig. 1

- 1. square upright
- 2. protection cover which likes organ
- 3, lock nut
- 4. taper pin
- 5. electric control box
- 6. spindle feed handle
- 7. scale
- 8. longitudinal table feed handlewheel
- 9, cross table feed handlewheel
- 10, leaf screw

- 11, stop bracket
- 12. spindle micro-feed handle wheel
- 13, speed lever
- 14, switchboard
- 15, oil filler plug
- 16, arbor bolt cover
- 17. power motor
- 18. crank handle with disengagement
- 19.barrel
- 20. head rapid traverse motor (electric motor)

Thank you for purchasing the ZAY7045L MILLING-DRILLING MACHINE if properly cared for and operated, this machine can provide you with years of accurate service.

Please read this manual carefully before using your machine.

1. USES AND FEATURES

- 1.1 This machine has several functions, such as surface cutting, drilling, milling, and tapping.
- 1.2 This machine is of fine quality, can be operated easily, and it is not limited to skilled operators.
- 1.3 The drilling and milling operation can be performed by two methods:
 - (1) Hand operation, which makes quick feed drilling.
 - (2) Worm gear feed operation, which makes slow feed milling.
- 1.4 Bronze adjustable nuts, which adjust the thread clearance and reduce the wear. They also make screws rotated smoothly and increase the thread accuracy.
- 1.5 Whole upright, which makes this machine strong and stable, and also keeps high accuracy.
- 1.6 Head of tough cast ensures its accuracy lasting enduring through the treatment of precise boring, grinding, and relieving internal stress.
- 1.7 Smoothly and precisely gears transmitting.
- 1.8 It is easy to change speed.
- 1.9 Tapping operation clockwise or counter clockwise and the working depth can be adjusted by positive depth stop gauge.
- 1.10 Special brake handles for head.
- 1.11 Reading the height of the head by barrel on the left of upright.

2. SPECIFICATION

DIECTROATION	
Model	ZAY7045L
Max. drilling capacity	45 mm
Max. face mill capacity	80 mm
Max. end mill capacity	32 mm
Max. tapping capacity	M12
Swivel angle of head-stock at perpendicular direction	±90°
Distance from spindle axis to column surface	280mm
Max. distance between spindle nose and table	530 mm
Spindle taper	M. T. 4
Spindle stroke	130 mm
Diameter of spindle sleeve	75 mm
Diameter of revolving platform	315 mm
Overall height(without stand)	1417mm
Working area of table	800 mm * 240 mm
Forward and backward travel of table	300mm
Right and left travel of table	585 mm
Motor	0.85/1.1 kw
Spindle speed(4p) (r/min)	4pole 80, 150, 260, 480, 900, 1575
	2pole 160, 300, 520, 960, 1800, 3150
Net weight/gross	295 kg/340 kg
T-Solı	26

	Face milling cutter ¢63mm
	Machine vice 90mm or125mm
a to the second	8
Optional	End mill cutter 2-20mm
	Twist drill 1-32mm
	Machine stand
	Double-head wrench 22*24 mm
	Allen wrench 4mm. 5mm. 6mm
	Screwdriver(-) 150 mm
	Taper sleeve 4-3
Standard accessories	Drill stock MT4
	Drill chuck 13mm
	Wedge
	Draw bar
	Draw bar washer
2.2	

3. MOUNTING MACHINE

- 3.1 Be sure to fix the head on the upright before moving machine, while moving machine, please keep its balance and safety.
- 3.2 Do not mount machine at the sunshine place to avoid the deformity of machine and the loss of accuracy.
- 3.3 Check to see if the motor turning in clockwise direction before connecting the electric distribution line.
- 3.4 Mount machine to a sturdy table or base. It is advisable that the table you choose be well constructed to avoid any vibration during operation.
- 3.5 Four holes are provided on the machine base for mounting. Before tightening bolts make sure the work table on the machine is level lengthwise and crosswise. Use shims if necessary.

4. CLEANING AND LUBRICATING (see fig. 2)

- 4.1 Your machine has been coated with heavy grease to protect it before shipping. This coating should be completely removed before operating the machine. Commercial degreaser, kerosene or similar solvent may be used to remove the grease from the machine, but avoid getting solvent on rubber parts.
- 4.2 After cleaning, coat all bright work with a light lubricant. Lubricate all points in Fig. 2 with medium consistency machine oil.
- 4.3 Remove the oil filler plug fill the lubricant such as SAE 68 oil in level to the gear box until the oil level reach the middle of oil fluid level indicator. Then lock the plug.

 Fig. 2

