



PRECISION DEVICE MOLDING MACHINE
AND METHOD OF MOLDING BY USING IT

ABSTRACT

The present invention provides a precision device molding machine and a molding method to make it possible for an adjustment of parallelism to be performed with a high degree of accuracy and excellent workability. The

5 precision device molding machine includes a parallelism adjustment mechanism held by a supporting plate, a pressure applying plate that is movable up and down, a lower die disposed on the upper surface of the pressure applying plate and an upper die disposed on the parallelism adjustment mechanism. The parallelism adjustment mechanism includes a pressure receiving mem-

10 ber, an adjusting plate, a transmitting member disposed between the pressure receiving member and the adjusting plate, a fixed fulcrum and an operating member. By having the operating member manipulated, the adjusting plate is moved, the pressure receiving member is slanted via the transmitting member with the fixed fulcrum acting as a pivot and the gradient of the pres-

15 sure receiving member is adjusted, thereby allowing the parallelism between the upper die and the lower die to be adjusted and allowing a compound in a cavity formed with the molding die to be molded. Preferably, the adjusting plate has two adjusting plates and the respective adjusting plates are located on the apexes of a regular triangle and each respective adjusting plate has a

20 slanting surface.

Fig. 1

Key to Reference Alphanumeric Characters

	1	Pressure Applying Plate
5	2	Compound
	3	Pressure Receiving Plate, Pressure Receiving Member
	4	Upper Plate
	5a, 5b & 5c	Fixing Bolt, Fixing Means
	6 & 16	First Pair of Seats
10	6a & 16a	Second Pair of Seats
	6b & 16b	Third Pair of Seats
	7	First True Sphere
	7a	Second True Sphere
	7b	Third True Sphere
15	8	First Adjusting Plate
	8a	Second Adjusting Plate
	9	First Adjusting Screw
	9a	Second Adjusting Screw
	10	First Micrometer Head
20	10a	Second Micrometer Head
	11	First Joint
	11a	Second Joint
	12a	Upper Die Holder
	12b	Lower Die Holder
25	13a	Upper Die
	13b	Lower Die
	14	Supporting Member
	15	Pressure Receiving Block, Pressure Receiving Member
	19	Pressure Applying Block
30	20	Pressure Receiving Block
	21	Plate
	22	Upper Shaft

This Sheet Has Been Replaced



23	Lower Shaft
27	Bearing
28	Pressing Bolt
29	Side Plate

This Sheet Has Been Replaced

