## 2.9.19 AUTOMATIC CENTERING FUNCTION (G36, G37) † (CONT'D)

EXAMPLE A: Automatic bore centering

	м06 т10 ; ——	Selection of touch sensor
	G00 X···· y···· ; →	Positioning in X and Y axes to virtual center
	Z;	Motion in Z direction to measurable position
1	G91 Xr ;	Motion through virtual radius r in X direction
2	G36 Ii F; —	Automatic centering (1) in X direction

Motion through virtual diameter-2r in X direction

4 G37 I-i; ———— Automatic centering (2) in X direction

(5) Xr; Completion of centering in X direction

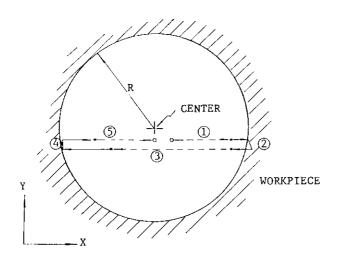
Yr;

G36 Jj;
Y-2r;
G37 J-j;
Yr;

Completion of centering in X direction

Similar automatic centering in Y direction

G92 X0 Z0; .... Setting the automatically obtained center point as the coordinate (0,0) point

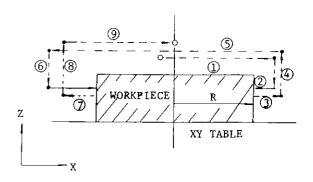


Note: r < R is assumed in the program.

Fig. 2.34

EXAMPLE B: Automatic outer diameter

	м06 т10 ;	Selection of touch sensor
	G00 X··· Y··· ; ···	Positioning in X and Y axes to virtual center
1	G01 Xr;	Motion through virtual radius r in X direction
2	Z-z;	Motion in Z direction to measurable position
3	G36 I-i F···;	Automatic centering (1) in X direction
4	Zz;	Retraction in Z direction
(5)	X-2r ;	Motion through virtual diameter-2r in X direction
6	Z-z;	Motion in Z direction to measurable position
7	G37 Ii ; · · · · · · · ·	Automatic centering (2) in X direction
(8)	Zz;	Retraction in Z direction
9	Xr;	Completion of centering in X direction
	Yr; Yr;	Similar automatic centering in Y direction
	G 92 X0 Y0 ;	Setting the automatically obtained center point as



the coordinate (0,0) point

Note: r > R is assumed in the program.

Fig. 2.35