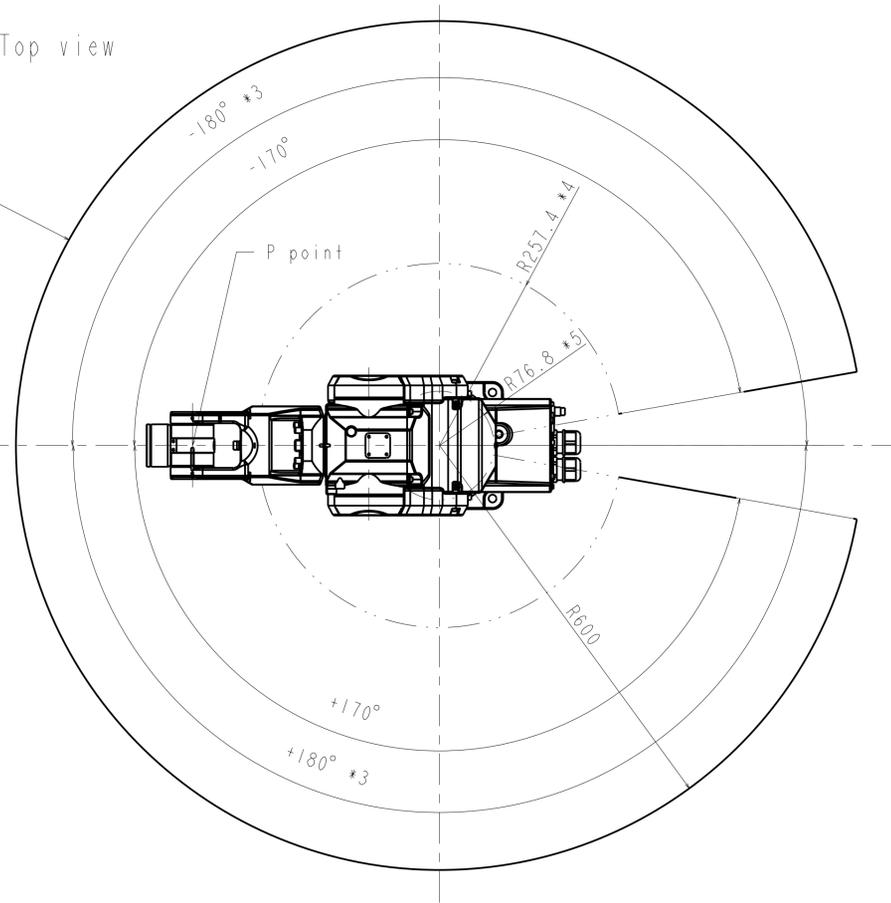


Top view

Motion range of P point

Joint #1  
0 pulse position



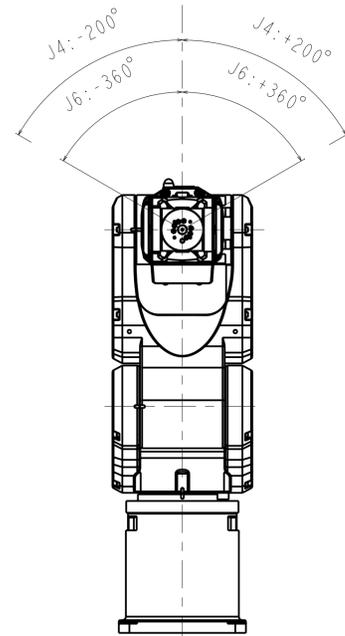
- \*3 Joint #1 without mechanical stop ( $\pm 180$  deg.)
- \*4 P point from top with Joint #3 declining -51 deg. (Joint #1 center - P point center)
- \*5 P point from top with Joint #3 tilting up +225 deg. (Joint #1 center - P point center)

	Angle	pulse
Arm #1 revolves	$\pm 170^\circ$	$\pm 4951609$ pulse
Without mechanical stop	(Without mechanical stop $\pm 180^\circ$ )	$\pm 5242880$ pulse
Arm #2 Lower arm swings	$-160^\circ, +65^\circ$	-4660338 pulse, +1893263 pulse
Arm #3 Upper arm swings	Single axis $-51^\circ, +225^\circ$ (276 $^\circ$ )	-1299798 pulse, +5734400 pulse
Arm #4 Wrist revolves	$\pm 200^\circ$	$\pm 4700057$ pulse
Arm #5 Wrist swings	$\pm 135^\circ$	$\pm 3217222$ pulse
Arm #6 Wrist rotates	$\pm 360^\circ$	$\pm 6553600$ pulse

\*All joints are in 0 pulse position in this drawing.

Front view

Joint #4,#6  
0 pulse position

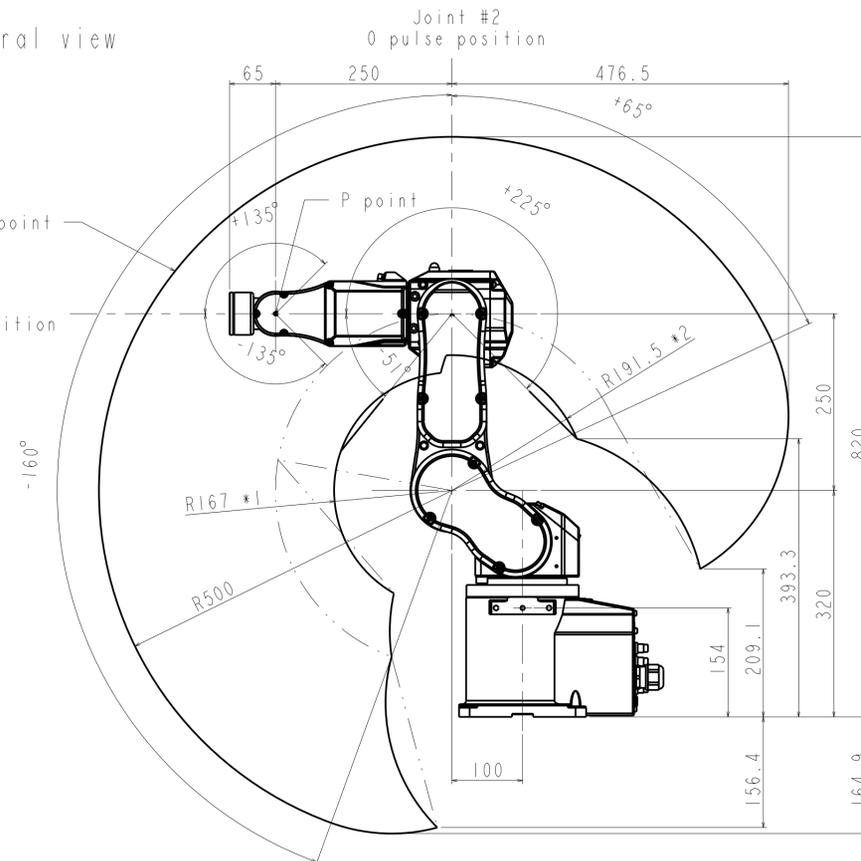


Lateral view

Joint #2  
0 pulse position

Motion range of P point

Joint #3 #5  
0 pulse position



- \*1 P point from lateral with Joint #3 declining -51 deg. (Joint #2 center - P point center)
- \*2 P point from lateral with Joint #3 tilting up +225 deg. (Joint #2 center - P point center)

NOTE :  $^\circ$  = degree

SEIKO EPSON CORP.		TITLE RANGE of C3-A60*S/A60*C	
DRW.No.		REV.No.	
RANGE C3-A60S/A60C		00	