

COLUMN & BOOM MANIPULATORS, ACB SERIES

Column and Boom Manipulators are also known as Welding Manipulators, Weld Head Manipulators, SAW Welding Manipulators, Welding Boom, L-Seam & C-Seam Manipulators.

In a column and boom system, the welding head is mounted at one end of the boom, with the wire spool installed either at the front or rear of the base, providing flexibility in various applications. Extra light-duty and light-duty models use a lead screw mechanism for vertical movement, while medium and heavy-duty versions are equipped with a robust rack and pinion system coupled with a counterweight arrangement to ensure smooth, precise adjustments. The counterweight and boom assembly are supported by over-rated steel wire ropes designed with a safety factor exceeding two, guaranteeing secure operation even under heavy loads.



MODEL	VERTICAL STROKE (mm)	HORIZONTAL STROKE (mm)	BOOM EXTENDING SPEED (VARIABLE) (MM/MIN)	BOOM LIFTING SPEED (FIXED) (MM/MIN)	TROLLEY SPEED (FIXED) (MM/MIN)	MAXIMUM LOAD AT BOOM END (KG)	APPROX. OVERALL HEIGHT WITH TROLLEY(M)
ACB-1010	1000	1000	150-1500	300	1500	100	3.0
ACB-2020	2000	2000	150-1500	300	1500	100	3.5
ACB-3030	3000	3000	150-1500	1000	1500	200	5.5
ACB-4040	4000	4000	150-1500	1000	1500	200	6.0
ACB-5050	5000	5000	150-1500	1000	1500	300	6.5
ACB-6060	6000	6000	150-1500	1000	1500	300	7.5
ACB-7060	7000	6000	150-1500	900	1500	300	9.0
ACB-8060	8000	6000	150-1500	900	1500	300	10.0

Note:

1. Custom-built column & Boom manipulators as per stroke requirements can also be provided apart from the standards.
2. Manual column swivel 360 degree
3. Anti-fall arrangement adopted for all models.
4. We reserve the right to modify the dimensions and others as per new design developments.

Optional: 1. X-Y cross slides 2. Welding head & power source 3. Fixed Base
4. Flux recovery unit