

## Welding Column & Boom

Welding manipulators are devices designed to position equipment which can be for welding, cutting, polishing or any other process on a part to be modified. Weldtech Positioning has the widest manipulators line.

### Features

Load on the end of boom when max expanded, 120kg 200kg 500kg 800kg has been designed. Anti-drop device has been designed for highly protected safety.

Column&boom made by beam type welded structure, giving the best rigidity and lower deflection when expanding.

Control function includes: Boom, rotation, trolley, column, speed display, boom up and down, boom expand left, right, weld start/off, emergency stop.

- Lift, expand position limit switch are all installed for safety.
- Speed change by inverted, all over for current, voltage, moment functions are given.
- AC motor on top to give the power to lift the boom.
- Foundation needed before installation.
- Insulation class is IP45.



## Welding Column & Boom

Load capacity		120kg	200kg	500kg	800kg
Effective lifting stroke		2m-5m	2-8m	3-9m	3-9m
Effective extension stroke		2m-5m	2-8m	3-9m	3-9m
Lifting speed		0.7m/min	0.7m/min	0.8m/min	0.8m/min
Extension speed		0.15-0.25m/min	0.15-2.5m/min	0.15-1.5m/min	0.15-1.5m/min
Manual rotation	Rotary table widthXlength	1000mm*1000mm	1000*1000	1000*1000	
	Rotary table height	150mm	150	40	
Motorized rotation	Rotary table widthXlength	1600mm*1600mm	1600mm*1600mm	1600mm*1600mm	2000mm*2000mm
	Rotary table height	180mm	180mm	220mm	280mm
	Rotary speed	0.07-0.75rpm	0.07-0.75rpm	0.07-0.75rpm	0.07-0.75rpm
	Locking means	Pneumatic	Pneumatic	Pneumatic	Pneumatic
Air supply pressure		0.4-1 (dry air)	0.4-1 (dry air)	0.4-1 (dry air)	0.4-1 (dry air)
Rails distance / P43		1800mm	1800mm		
Manual trolley	Trolley width *length	2000mm*2200mm	2250mm*2500mm		
	Trolley height H	500mm	600mm		
	Rails distance / P43	1800mm	2070mm	2570mm	2570mm
Motorized trolley	Trolley width *length	2250mm*2200mm	2500mm*2500mm	2900mm*3000mm	2900mm*3000mm
	Trolley height H	500mm	600mm	630mm	630mm
	Rollers distance of trolley	1500mm	2000mm	2500mm	2500mm
	Moving speed	0.25-2.5m/min	0.25-2.5m/min	0.15-1.5m/min	0.15-1.5m/min
Welding head		Single wire	Single wire Tandem strip cladding	Single wire Tandem strip cladding narrow gap	Single&tandem wire Tandem strip cladding narrow gap

### Configuration / option:

– Column + Boom + Rotary table (option) + Trolley (option) + Control cabinet + Remote controller + 20m control cable

Options include: Operator chair or Operator platform, cross slide, boom and rotation bracket (90 degree), bracket for power source.

## Welding Column & Boom

