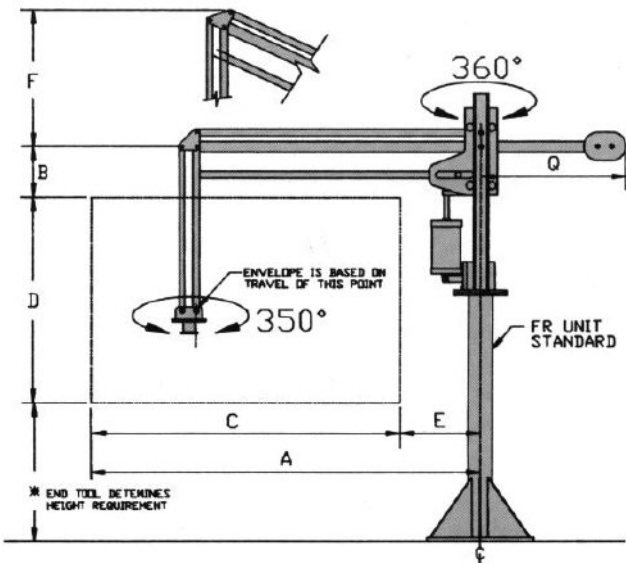


INDUSTRIAL MANIPULATOR

A Manipulator is only one component of a work cell or material handling system. AIMCO provides a variety of both standard and Custom End Tooling to safely and efficiently handle material loads.

MODEL NO.	CAPACITY LBS	REACH FT	UNIT WT LBS	A	B	C	D	E	F	G
LB09-04 (#)	225	4	335	48"	15.00"	39"	37"	9"	25.25"	24"
LB09-05 (#)	180	5	350	60"	18.50"	49"	47"	11"	31.25"	24"
LB09-06 (#)	150	6	365	72"	22.25"	59"	57"	13"	37.25"	24"
LB09-07 (#)	128	7	380	84"	26.00"	69"	66"	15"	43.25"	30"
LB09-08 (#)	112	8	410	96"	29.75"	79"	75"	17"	49.25"	30"
LB09-09 (#)	100	9	425	108"	33.50"	89"	85"	19"	55.25"	38"
LB09-10 (#)	90	10	440	120"	37.25"	99"	94"	21"	61.25"	38"
LB24-04 (#)	600	4	490	48"	16.00"	38"	40"	10"	25.25"	26"
LB24-05 (#)	480	5	505	60"	20.00"	48"	50"	12"	31.25"	26"
LB24-06 (#)	400	6	520	72"	24.00"	58"	60"	14"	37.25"	26"
LB24-07 (#)	343	7	535	84"	28.00"	68"	74"	16"	43.25"	31"
LB24-08 (#)	300	8	565	96"	32.00"	78"	85"	18"	49.25"	31"
LB24-09 (#)	267	9	585	108"	36.00"	88"	96"	20"	55.25"	42"
LB24-10 (#)	240	10	600	120"	40.00"	98"	107"	22"	61.25"	42"
LB66-04 (#)	1700	4	1150	48"	19.50"	40"	36"	8"	27.50"	30"
LB66-05 (#)	1350	5	1175	60"	24.50"	50"	45"	10"	34.00"	30"
LB66-06 (#)	1100	6	1200	72"	29.50"	60"	54"	12"	40.50"	30"
LB66-07 (#)	950	7	1225	84"	34.75"	70"	63"	14"	47.00"	35"
LB66-08 (#)	800	8	1250	96"	39.75"	80"	72"	16"	53.50"	35"
LB66-09 (#)	725	9	1275	108"	44.75"	90"	81"	18"	59.75"	42"
LB66-10 (#)	650	10	1300	120"	49.75"	100"	90"	20"	66.50"	42"

(#) Denotes Mounting Option - See available options lower on this page
Capacity is based on 100 PSI Air Supply



Determining Lifting Capacity

To determine the total load for a manipulator, add the weight of the item to be handled to the weight of the end tooling (lifting apparatus). Use the resulting sum to select the required capacity of the manipulator.

Load + Tooling Wgt. = Total Load

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Selecting Required Reach

Match the required radius of reach with the lifting capacity as previously determined. Note that as the reach requirements increase, the lifting capacity decreases.

INDUSTRIAL MANIPULATOR

Identifying the Work Envelope

Once the manipulator model has been selected based upon the lifting capacity and reach, the work envelope must be identified and a mounting option chosen.

Vertical modification of the work envelope is accomplished by:

1. Using spacers to lower ceiling and trolley mounted units.
2. Modify the pedestal height to raise or lower floor units.

Work Envelope Mounting Option

Once the manipulator model has been selected based upon lifting capacity and radius of reach, the

work envelope must be identified and the mounting option chosen.

In a fixed position (ceiling or pedestal mount) the work envelope is a circular ring. The center diameter of the circular ring is the area occupied by the units main mounting structure. The manipulator will not operate in this area. (Fig. A)

FIXED WORK ENVELOPE

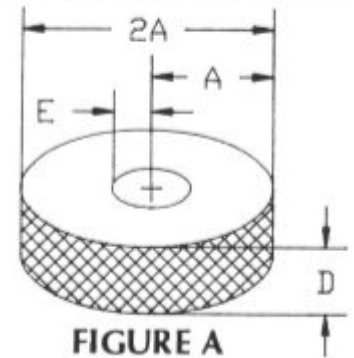
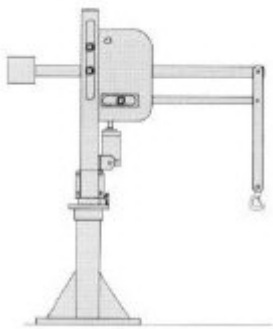


FIGURE A

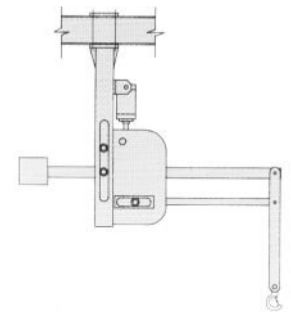


(P) Pedestal Mount

Unit is bolted to the floor in a fixed position. (Fig. A)

(C) Ceiling Mount

Unit is bolted to an overhead support structure at a fixed location. This mounting option eliminates floor obstructions. (Fig. A)



The work envelope can be extended, eliminating the center diameter, through the use of an overhead trolley. When selecting ceiling or trolley mounted units, always check the manipulator arm in the maximum raised position to verify that the arm will clear all overhead obstructions.

EXTENDED WORK ENVELOPE

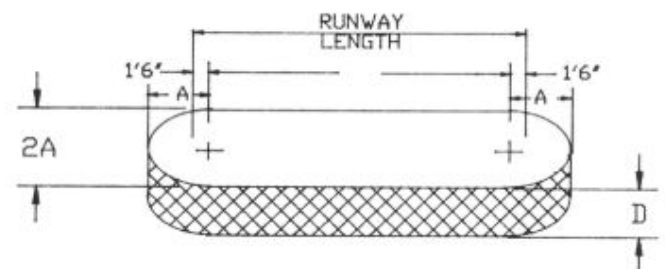


FIGURE B

(T) Trolley Mount

Unit is bolted to a double girder trolley and is able to move along a runway. Trolley mounts increase the available work envelope. (Fig. B)

