

# 4949 Suspension Arm Systems Product Drawings Last Updated 6/26/2008

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For Secondary Services, Product Support, or To Order, Call 1-301-696-9800



#### TECHNICAL DATA:

- Color: Transport Gray B, similar to RAL 7043.
- Material: Components–Aluminum, Steel Round Tubing–galvanized steel tube, 48 x 4mm
- Finish: Powder-coat painted components
- Protection Classifications: IP 54, EN 60529. Foot 49496800, IP 40.
- Assembly: Cut the tubing. Slide components together. Tighten to required torque, 22 lbs. force (30 Newton Meters). Complete assembly instructions are provided with components.

Rose+Bopla's 4949 Suspension Arm System is designed to support or suspend machine control enclosures. When combined with our machine control systems, the 4949 offers a variety of

### 4949 Suspension Arm

options for setting up these units: as a vertical stand; a wall mounted system, or as a surface-mounted system.

Systems are designed to allow simple and rapid assembly. They are modular carrier systems for use in rugged industrial environments. Components are manufactured from welded steel and die cast aluminum, which offers maximum weight and load carrying capacity. This system overcomes vibration, fluid control, shock and corrosion problems commonly found in the machine tool industry. All couplings are fitted with vibration dampeners.

The 4949 system allows for easy retrofitting of existing factory machines with NC and CNC controls. It is also suited to new machinery packaging and will support or suspend Rose+Bopla's small and large aluminum machine control units.

Control wires are routed through the tubing, and components are totally protected from dust, cutting fluids, oil, and chips.

Based on standarized round steel tubing, 48mm in diameter, different system components are combined to create a variety of system structures, which assemble in a very short time. The length of the steel tubes can be easily adjusted, and are attached to system components with self-tapping Allen screws. A free cable passage, 40mm in diameter, is provided through the system components and tubing. Components include: vertical and horizontal wall brackets, base brackets, couplings, fixed and pivoting elbow couplings, fixed and pivoting foot stands and round galvanized steel tubing.



### Sample Constructions



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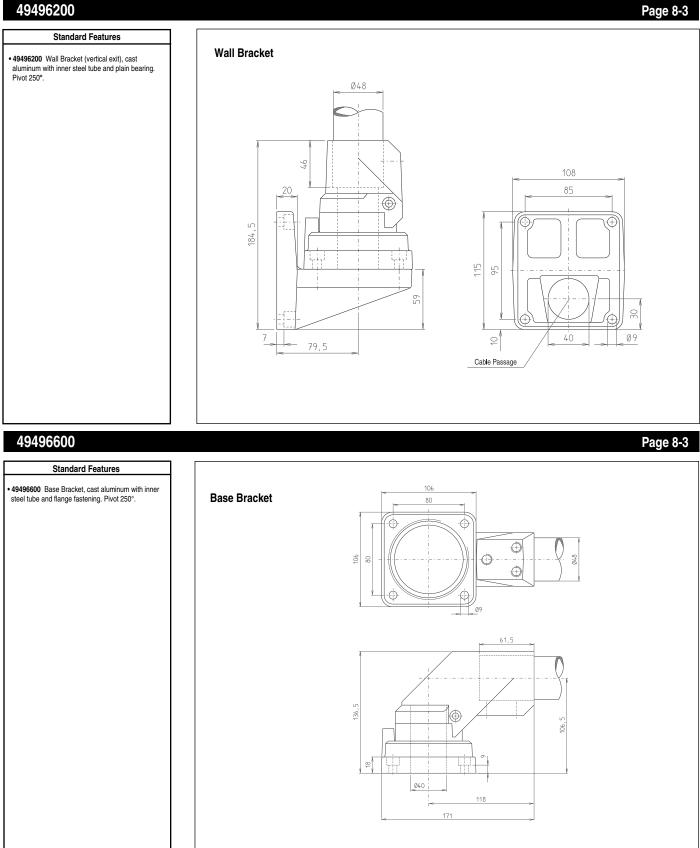
DESCRIPTION	PART NUMBER	POSITION	MATERIAL	WEIGHT	DRAWING PG	
ROUND TUBING (10') 4mm Wall Thickness	10094158 45 10094158 85		Zinc Plated Steel Unpainted Steel 48 mm O.D.	30.80 lbs. (10 foot)	_	
WALL BRACKET (Vertical Exit)	49496200	Pivots 250°	Cast Aluminum	3.31 lbs.	17-234	
BASE BRACKET	49496600	Pivots 250°	Cast Aluminum w / Steel Sleeve	4.18 lbs.	17-234	
FOOT	49496800	Pivots 250°	Cast Aluminum	1.54 lbs.	17-235	
WALL BRACKET (Horizontal Exit)	49497000	Pivots 250°	Cast Aluminum	3.75 lbs.	17-235	
ELBOW	49497100	Fixed	Cast Aluminum	1.76 lbs.	17-236	
FOOT NOTE: Tubing weight, 3.08 lbs. per t	49497200	Fixed	Cast Aluminum	1.65 lbs.	17-236	

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DESCRIPTION	PART NUMBER	POSITION	MATERIAL	WEIGHT	DRAWING PG	
COUPLING	49497300	Pivots 270°	Cast Aluminum	1.10 lbs.	17-237	
ELBOW COUPLING	49497500	Pivots 270°	Cast Aluminum	1.54 lbs.	17-237	
ANGLED ADAPTER 30°	49497600	30° Fixed Angle	Cast Aluminum	0.88 lbs.	17-238	
COUPLING	49497700	Pivots 270°	Cast Aluminum w / Flange Base	1.10 lbs.	17-238	
ELBOW COUPLING	49497800	Pivots 270°	Cast Aluminum w / Flange Base	1.54 lbs.	17-239	
ADAPTER FLANGE FOR EXTERNAL CABLE	49497900	Fixed	Cast Steel	8.82 lbs.	17-239	
TILTING ADAPTER	49498000	0°-45° Tilt	Cast Aluminum	1.32 lbs.	17-240	

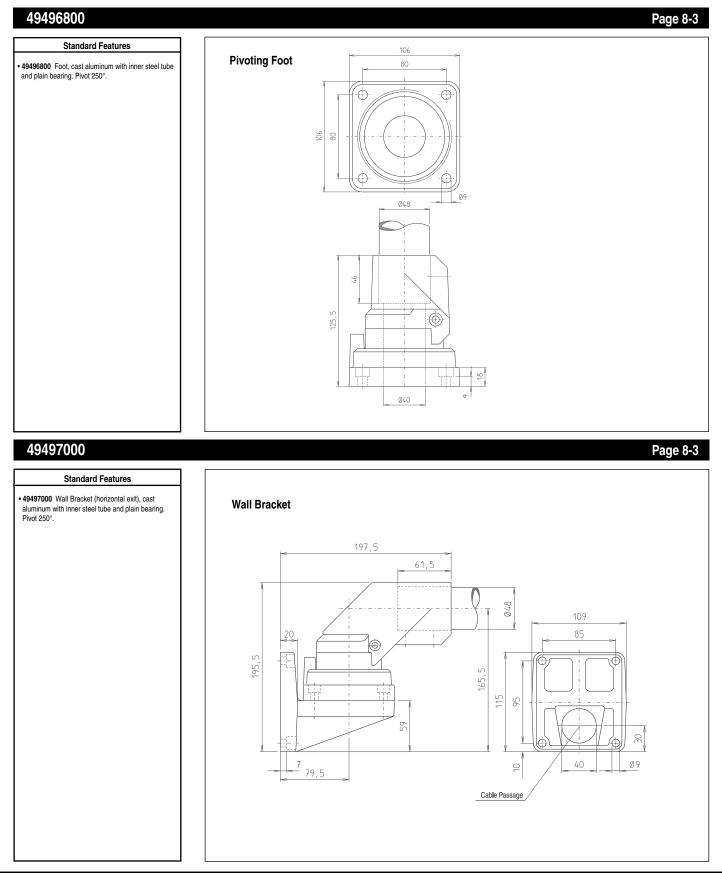
NOTE: Tubing weight, 3.08 per foot. Maximum length for UPS shipment 9 feet (108"). Unpainted tubing must be painted prior to installation to insure proper fit.

### 49496200

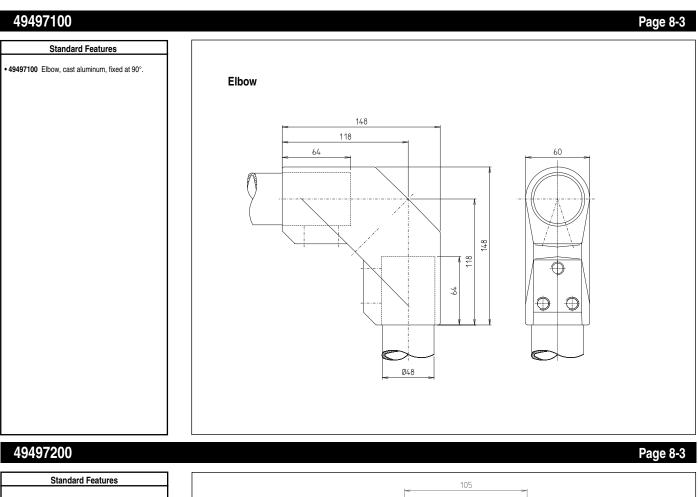


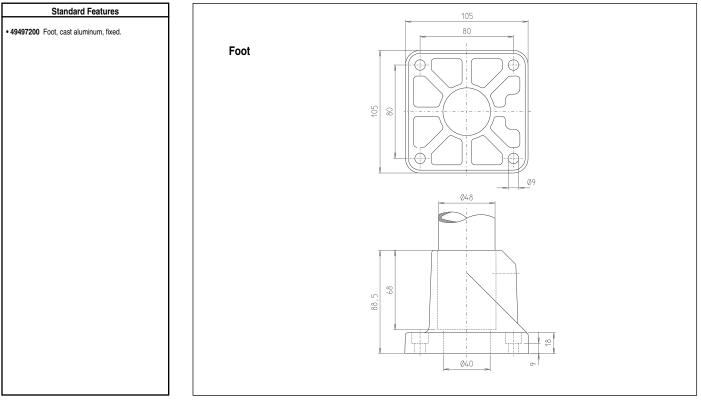


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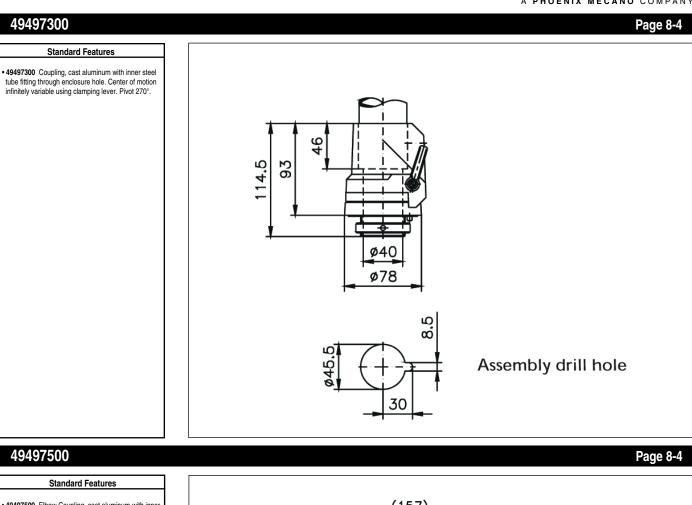


**Dimensional Drawings** 

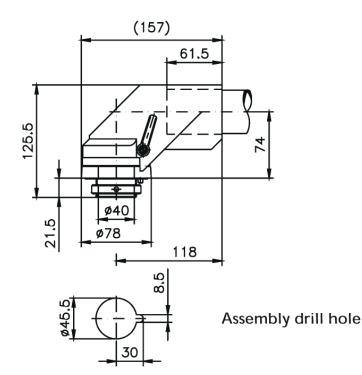




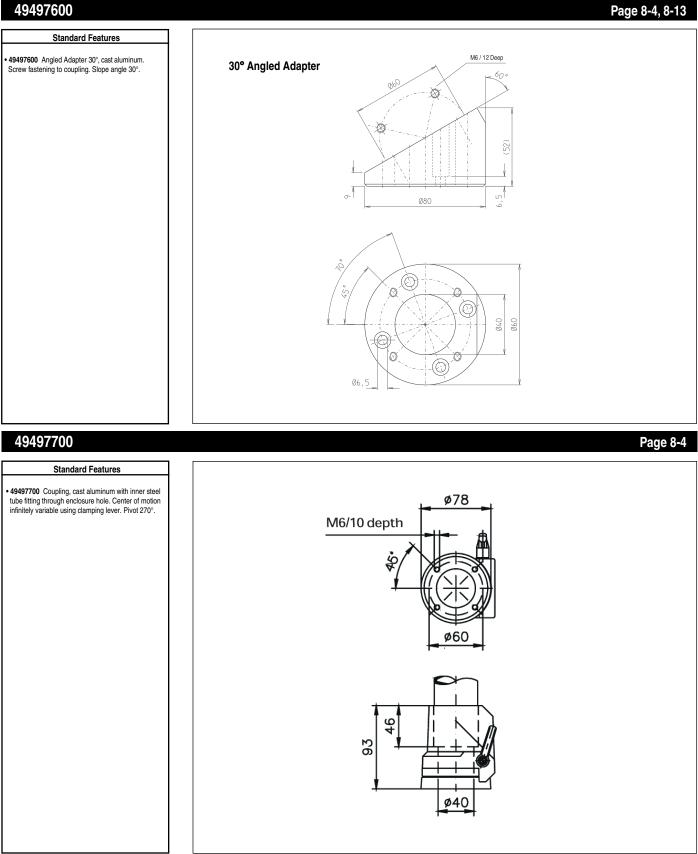








### 49497600





### A PHOENIX MECANO COMPANY 49497800 Page 8-4 Standard Features 49497800 Elbow Coupling, cast aluminum. Large surface flange fastening on enclosure. Center of motion infinitely variable using clamping lever. Pivot 270°. **Elbow Coupling** M6 / 10 Deep ١ 048 (H) ٢ 0 Ø60 Ø78 157 61,5 104 74 Ø40 Ø78 Page 8-4, 8-13

### 49497900

Standard Features		105
49497900 Adapter Flange, cast steel in combination with wall brackets as a cable lead-in, from bottom or top.	Adapter Flange for External Cable	

**Dimensional Drawings** 

