

# PANDJIRIS, INC

5151 Northrup • St. Louis, MO 63110 • (314) 776-6893

## SERIES 1400 MANIPULATOR

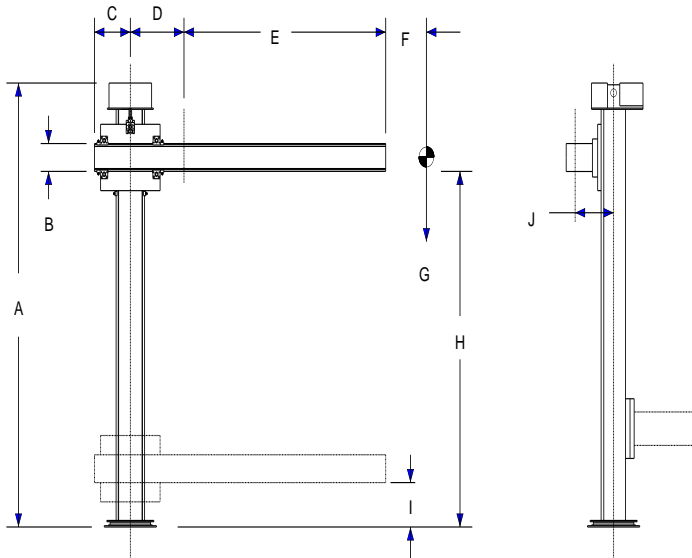
The **Series "1400" Manipulator**, size 14 x 14, is mounted on a bolt-down base. It has a 14' nominal arc height and a 14' horizontal boom stroke at a variable speed of 3" to 116" per minute. This is electronically controlled with dynamic braking beginning 27-1/2" from the centerline of the column and 360-degree manual column rotation. The standard electricals are 230/460 volts, 3 phase, 60 cycle with 115 control. Wired to conform to National Electrical Code Standards.

**Vertical Boom Travel** .....21-1/8" Minimum, 14' 9-1/8" Maximum, Floor to Bottom of Boom.  
 Hoist Speed.....48 IPM Constant Speed  
 Hoist Motor.....1 H.P. AC Brakemotor

**Horizontal Boom Stroke** .....14' Stroke beginning 27-1/2" From Center of Column  
 Horizontal Boom Speed .....3 to 116 IPM Variable Speed  
 Horizontal Boom Motor.....3/4 H.P. DC Motor

Anti-Fall Device ..... Spring loaded; self-energizing pawl mounted on the crosshead engages column face.  
 Column Rotation ..... Manual 360-degree rotation with a manually operated screw friction lock.  
 Bolt Down Base..... Size 40" x 40", with (8) 13/16" Drilled holes on 37-1/4" bolt center.  
 Control ..... Pendant control equipped with joystick for Boom "Up-Down-In-Out".  
 Boom Speed Potentiometer and a Weld-Rapid Selector Switch. Pendant Controls operate on 115 volts on 25' of rubber covered cable.  
 Electrical ..... Operates on 230/460 input power. Specify voltage when ordering. All wiring is to National Electrical Code Standards. Draws 8.8 amps @ 230 VAC.

The following price is for the basic manipulator, including all motors and controls, wired and ready to operate. Price does not include any welding heads, welding controls power source, flux recovery systems, or interconnecting cables, nor does it include the mounting or wiring of these items.



A	Overall Height	18' 11-1/8"
B	Boom Track Blade	13-1/2"
C	Min. Rear Clearance	27-1/2"
D	Boom Retract	27-1/2"
E	Boom Stroke	14'
F	C.G. Distance	18"
G	Max. Load End/Total	750/1500
H	Max. Boom Height	14' 9-1/8"
I	Min. Boom Height	21-1/8"
J	Boom Centerline Offset	15-9/16"

**Terms:** Pandjiris, Inc. standard terms and conditions apply, f.o.b. Factory, St. Louis, Missouri, or designated ship point.

**Delivery:** Consult Factory

**Shipping weight,** 1,200 lbs.

### PRICE LIST

For Bulletin No. : MAN.  
 Effective Date : January 2014  
 Page Number : D-9

# PANDJIRIS, INC

5151 Northrup • St. Louis, MO 63110 • (314) 776-6893

## SERIES 1400 MANIPULATOR Options and Accessories

For column or boom addition, add per foot  
For column or boom deletion ..... N/C

For Power Cable Track for Column and Boom (For sizes other than 14x14, Consult Factory)

For free standing base  
For Free Standing "X" Base

Preset digital tachometer in manipulator joystick hand pendant, reads in IPM or CmPM, for boom

For variable speed hoist, 2 to 46 IPM

For "Step-Over" control, allows indexing of boom movement for overlay operations etc.

For flashing red light at column top and boom end with audible alarm

For special voltages, add ..... Consult Factory

Power rotation of column for special applications, variable speed at .004 to .12 RPM

For support platform bolted to column for welding power source:  
Standard 40x42 for single head mounting  
Oversized 44x60 for multiple head mounting

For turntable to support wire drum or reel payoff (requires platform listed above)

For gas bottle holder bracket, supports two bottles

For 1-1/2 H.P. Flux recovery unit - installed (including hose), add ..... Consult Factory

For 3 H.P. Flux recovery unit - installed (including hose), add ..... Consult Factory

For 5 H.P. Flux recovery unit - installed (including hose), add ..... Consult Factory

For 7-1/2 H.P. Flux recovery unit - installed (including hose), add ..... Consult Factory

For operator's seat

### WELD EQUIPMENT MOUNTING CHARGES

Pandjiris will mount and integrate welding head and control packages on the above manipulator. The configuration of the mounting will typically include installation of the wire drive, torch wire reel, flux hopper, wire drive control, and connection of all cables and hoses between the power source and wire feed control required for proper operation. Other accessories such as AVCs, slides, swivels etc. can also be mounted for an extra charge.

To Mount a Single Wire SUB-ARC package  
To Mount a Twin Wire SUB-ARC package  
To Mount a Tandem SUB-ARC package  
To Mount a MIG package  
To Mount a Cold Wire TIG package  
To Mount a Fusion TIG package  
To Mount an AVC with the above TIG packages

To Mount a dual axis seam tracker

To Mount wire reel at aft end of boom with insulated wire guide conduit running the length of the boom, add per foot of boom stroke

**Terms:** Pandjiris, Inc. standard terms and conditions apply, f.o.b. Factory, St. Louis, Missouri, or designated ship point.

**Delivery:** Consult Factory

#### PRICE LIST

For Bulletin No. : MAN.  
Effective Date : January 2014  
Page Number : D-10