

# CANRACK

METAL CENTER SYSTEMS

## SHEET HANDLER



### Safety

Loading sheets into a shear, CNC turret punch, laser, or other fabricating machine has inherently required lifting by the operator. Sheets weighing up to 150 lbs. are often handled by one man with several devices used so that the sheet could be slid onto the machine resulting in pinched fingers and cut hands. Heavier sheets are usually handled by two men sometimes with the use of an overhead crane or jib crane.

The Canrack/MCS sheet handler allows one person to lift sheets weighing up to 1000 lbs. and safely move them into position with no hand contact to the sheet. Back strain and cut or pinched fingers are eliminated and any employee independent of size or strength can easily perform the task.

### Quality

The sheet handler eliminates the need to slide sheets and uses a special "peel" function to separate sheets that stick to give "scratch-free" handling. Paper interleaved or vinyl coated sheets all can be handled and movement is easily controlled to give gentle handling from the stack and onto the machine bed

### Productivity

Conversion to one person handling and the ability to pick and place sheets at the rate of 2 per minute speeds up machine operation. Increased production results due to much less waiting time for sheet loading or unloading. CNC controlled machines can be fed immediately as picked sheets can be moved into a load position "hovering" over the sheet grippers while the machine is processing the previous sheet.

### Specifications

The double articulated boom gives a 12' radius movement from the free standing column. The power required is one air line of 100 psi with minimal CFM used. The picking head has 8 adjust-able cups that handle sheets from 36" X 72" to 72" X 192". Filters and automatic oilers are included that reduce maintenance to less than one hour per month. Safety valves prevent release of a sheet while being moved..

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## **SPECIFICATIONS - MODEL SH600-I2DAJP SHEET HANDLER**

### **COLUMN**

- 8" diameter structural tube, 12'2" high overall height, with 36" square base plate using 8 - 7/8" diameter x 6" long anchor bolts

### **ARM**

- 12' radius double articulated boom with integral air lines and hoist cable cylinder

### **HEAD**

- 8 - 6" diameter non-marking urethane vacuum cups supplied with spring loaded vertical movement and swivel joint to pick sheets not laying flat
- 1 set of handles and operator controls mounted on side or end of head
- cups are adjustable for width and length. Range adjustment standard is 3' x 6' to 6' x 16' or small sheet model is 2' x 4' to 6 x 12'
- safe vacuum gauge mounted on head

### **AIR SUPPLY**

- clean dry air of 100 psi with minimum 12 cu. ft./min. air line provided by customer to air inlet at base of column
- filter regulator unit provided on column - lubricator unit supplied on head

### **OPERATION**

- vertical movement of 62" is provided with pneumatic up/down thumb switch variable control to allow "feathering" for proportional speed control
- horizontal movement requires little operator effort due to large anti-friction bearings and action of double articulated boom providing movement in any direction in a straight line

### **CAPACITY**

- standard model is 600 lbs. (SH-600)
- larger capacity units of 800 lbs. (SH-800) or 1,000 lbs. (SH-1000) is also available

### **OPTIONS**

- manual counter - thumb switch controlled - useful when sheet handler is used for order filling
- high/low vacuum settings - required when picking soft or thin sheets that could deform from full vacuum - capacity is lowered to 320 lbs. when switched to low vacuum. Mandatory when picking "0" temper aluminum.
- second set of operator handles and controls - lets operator pick sheets on either width or end
- peel function control - offsets lifting point to allow sheets to lift on one edge only giving operator ability to separate sheets that stick together. Sliding of sheets is avoided to give scratch-free handling.
- soft touch cups with replaceable foam inserts - used to pick polished aluminum, mirror finish polished sheets, also will pick checker plate diamond side up - maximum capacity 400 lbs.
- quick disconnect fittings - required when both vinyl and soft touch cups are used on same machine





SHEETS ARE PICKED FROM A 6 DRAWER STORAGE RACK  
(EACH DRAWER CAPABLE OF HOLDING 5,000 LBS. OF SHEETS)



SHEETS ARE EASILY MOVED TO THE C.N.C. MACHINE  
AND PLACED INTO THE MACHINE GRIPPERS





ONE MAN LIFTS 600 LB. SHEET WITH CANRACK SHEET HANDLER



SHEET IS QUICKLY AND GENTLY LOWERED INTO  
JAWS OF CNC SHEAR FEEDER