

# COLE-TUVE, Inc.

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ANGLE ROLLS | PLATE ROLLS  
 SHEET METAL ROLLS  
 PRESS BRAKES | C-FRAME PRESSES  
 TRIMMING & BEADING MACHINES  
 HORIZONTAL METAL-CUTTING BANDSAWS  
 PEN-BACK & STRAIGHT SIDE PRESSES  
 HIGH SPEED CIRCLE CUTTING MACHINES  
 4-COLUMN HYDRAULIC PRESSES  
 HYDRAULIC BOX & PAN/LEAF BRAKES

REFERENCE: Your Call

**QUOTATION** 7361, Page 1  
 (X) BY E-MAIL ( ) BY FAX ( ) BY MAIL

DATE: February 14, 2014

WE ARE PLEASED TO SUBMIT FOR YOUR CONSIDERATION:

1 - New COLE-TUVE/Sahinler Hydraulic Plate Bending Roll, Model 4RS-10-380. Four-Roll, Double-Pinch Type.

Capacities based on steel up to 40,000 PSI Yield Strength:

- Circular Bending to diameters 5 times upper roll diameter and larger..... 10' x 1"
- Circular Bending to diameters 1-1/2 times upper roll diameter and larger..... 10' x 3/4"
- Prebending to diameters 5 times upper roll diameter and larger ..... 10' x 3/4"
- Prebending to diameters 1-1/2 times upper roll diameter and larger ..... 10' x 5/8"

With prebending, resulting flat ends are 1-1/2 to 2 times plate thickness or less.  
 Proportional capacities in other material, widths and thicknesses.  
 Cone bending capacity is 50% of each length and thickness capacities.

**Features:**

- Four-roll design and construction. Compact design for minimal floor space.*
- Welded, all-steel, heavily proportioned, thermally stress-relieved frame and drop end.*
- Roll shafts journalled in self-lubricating bronze and spherical roller bearings.*
- Induction-hardened SAE 1050 steel bars, hardened to 55 - 58 Rockwell C are used for the rolls. Rolls are precisely machined with crowning to compensate for deflection under load.*
- Fully hydraulic.*
- Three-roll drive:*
  - The upper central roll and each of the two side bending rolls are driven, each by a hydraulic motor through a planetary gearbox from a central hydraulic power system.*
  - The lower central roll and the two side bending rolls are hydraulically and individually adjustable and tiltable. Each side roll is adjustable hydraulically and independently to provide double pre-bending; therefore each end of the workpiece can be prebent and then rolled with only one insertion of the workpiece into the machine.*
- Linear movement (slide) of the side rolls for more powerful and efficient rolling of medium to heavy capacities.*
- Dual rolling speeds.*
- Balancing system for rolls parallelity.*
- Robust drop end, hydraulically operated.*
- Controls for all functions and electronic digital readouts in a rolling console.*
- Cone bending attachment is standard equipment; and the side rolls can be tilted for more effective cone rolling, after which they can be easily paralleled for normal bending.*
- All the advantages of asymmetrical, pyramid and double-pinch bending.*
- 3 - Electronic digital readouts (LED) for the positions of the side rolls and the lower roll, each with programmable roll position pre-set and memory.*
- Components are from world-renowned sources.*
- Pre-arranged for easy retro-fit of overhead and side support devices if required after machine has been put into operation.*
- Built according to stringent European standards for design, production and quality and bearing the CE-Mark of certification.*

THE "TERMS AND CONDITIONS OF QUOTATION AND SALE" ON THE REVERSE SIDE HEREOF ARE MADE A PART OF THIS QUOTATION AND OF THE CONTRACT FOR ANY RESULTING SALE.		WARRANTY: FOR DETAILS OF THE LIMITED WARRANTY WHICH APPLIES, SEE THE "TERMS AND CONDITIONS OF QUOTATION AND SALE".	
F.O.B.	DELIVERY	PAYMENT TERMS	

COLE-TUVE, Inc.

SUBJECT TO PRIOR COMMITMENTS

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REFERENCE:

**QUOTATION 7361, Page 2**  
 ( ) BY E-MAIL ( ) BY FAX ( ) BY MAIL

DATE:

**WE ARE PLEASED TO SUBMIT FOR YOUR CONSIDERATION:**

1 - New COLE-TUVE/Sahinler Hydraulic Plate Bending Roll, Model 4RS-10-380. Four-Roll, Double-Pinch Type (continued):

**Specifications:**

Overall working length of the rolls.....	122"
Diameters of the upper and lower central rolls.....	14.96"
Diameter of each side roll.....	11.81"
Rolling speeds, dual.....	5 and 16-1/2 FPM
Motor HP .....	41
Dimensions, L x W x H, excluding control console.....	231" x 89" x 93"
Weight.....	39,600#

**Standard Equipment:**

- Three-roll drive:
  - Each roll driven by hydraulic motor through a planetary gearbox.
  - Induction hardened and crowned rolls.
  - Hydraulic adjustment of the lower central roll and of the side rolls, each independently.
  - Hydraulic drop end for easy removal of the completed cylinder.
  - Hydraulic system complete with controls.
  - Linear movement (slide) of the side rolls.
  - Dual rolling speeds.
  - Balancing system for parallelity of the rolls.
  - Manual central lubrication.
  - Cone bending attachment.
  - Operating controls in a rolling console for all functions including adjustment of the lower and side rolls, for paralleling and tilting (for cone rolling) the side rolls and for operation of the drop end.
- 3 - Electronic digital readouts (LED) for the positions of the side rolls and the lower central roll mounted in the rolling control console, each with programmable roll position pre-set and memory.
- Electric motor and controls. Electrics for 3/60/220/440. Low voltage at the controls.
- Overload and under voltage protection. Emergency stop wires at the front and rear of the machine.
- Hydraulics by Rexroth, Bosch, Duplomatic or Parker.
- Electrics by Siemens, NAIS or Telemecanique.
- Bearings by FAG and SKF.
- 2 - Operating Manual/Parts List.

Budget Price . . . . . **\$120,000.00**

*114,800 IN EUROPE  
6 WEEKS*

Data and specifications are subject to correction without penalty in case of error, mis-statement or omission and supersede those in the catalogue.

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F.O.B. White Marsh, MD	DELIVERY	PAYMENT TERMS 25% with order; balance when ready to ship	

Budget Price subject to confirmation.

SUBJECT TO PRIOR COMMITMENTS

**COLE-TUVE, Inc.**  
*Irwin S. Loginsky*



### Main Technical Features

- Rolls Table Length: 3100 mm
- Central Rolls Diameter: 380 mm
- Lateral Rolls Diameter: 300 mm
- Max useful opening between the central rolls: 80 mm
- Rotation Speed: 1.5-5 m/1'
- Number of motorized rolls: 3
- Installed power: 31,5 kW
- Voltage/Frequency/phases: 220/440V-60Hz-3ph
- Approximate Weight: 18800 Kg
- Appr. Dimensions (L x W x H): 5850x2250x2350 mm

### DATA REPORTED ON THE MACHINE IDENTIFICATION PLATE:

- MACCHINE: 4 Rolls Plate Bending Machine
- MODEL: 4RS-10-380
- SERIAL NUMBER: **SL-231179**
- YEAR BUILT: 2014

### CONTENTS OF THE MANUAL

This manual is divided into 8 chapters including 1 Appendix:

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