



FABRICATION SOLUTIONS & TECHNOLOGIES

AN IMCAR® COMPANY



# SIH

## 3 ROLL PLATE BENDING MACHINES



903-663-8500  
903-663-6174 fax



PO Box 901  
Judson, TX 75660



[www.FSTSteelFab.com](http://www.FSTSteelFab.com)  
[www.imcar.it](http://www.imcar.it)

# 3 ROLL PLATE BENDING MACHINES WITH FULL PRE-BENDING CAPABILITY



## **SIH 80/5** **10' x 3"**

The SIH series of plate rolls provides a 3 roll double-pinch format designed and built to the exacting and rigid standards of excellence synonymous with IMCAR products. For machine operators or applications that do not seek to incorporate CNC control potential, while still gaining a functional, capable and sturdy machine, the SIH series provides an attractive option.

# 3 ROLL PLATE BENDING MACHINES WITH FULL PRE-BENDING CAPABILITY



## TECHNICAL FEATURES

- Hydraulic 3 roll plate bending machine with full pre-bending capability
- Useful length from 3' to 20'
- Capacities from 3/4" to 5"
- Fully hydraulic
- CNC machined, industrial grade main frame components
- Oversized hydraulic system for lower working pressure, reduced machine strain, increased longevity and workload potential
- Linear guide design for maximum power and high quality pre-bending
- 3 hydraulic motors coupled to planetary reducers for 3 roll rotation functionality
- Automatic compensation of top roll rotation speed
- Hardened rolls
- Extended shafts for section bending dies on select models
- Industrial grade mobile control console
- Push buttons controls allow parallel movement of lateral rolls and rotation function
- Drop end control from control console
- Proportional valve and PLC compensation of lateral roll parallelism for high precision and maximum quality
- Hydraulic inclination of lateral rolls for conical bending direct from control console via selector switch network
- 4 digital readouts for roll positioning
- Variable speed standard



# SIH SOLUTIONS FOR MEDIUM TO HEAVY PLATE APPLICATIONS

Length & Capacities not listed are available upon request

| SIH Model | Total Roll Length | Pre-bend Capacity | Rolling Capacity | Roll Diameters |         |
|-----------|-------------------|-------------------|------------------|----------------|---------|
|           |                   |                   |                  | Top            | Lateral |
| 20/3      | 6'                | 1"                | 1-3/16"          | 13.78"         | 13.00"  |
| 25/3      | 6'                | 1-1/4"            | 1-1/2"           | 15.35"         | 13.78"  |
| 30/3      | 6'                | 1-1/2"            | 1-3/4"           | 16.53"         | 14.96"  |
| 35/3      | 6'                | 1-3/4"            | 2"               | 18.50"         | 17.32"  |
| 40/3      | 6'                | 2"                | 2-3/8"           | 20.87"         | 19.30"  |
| 50/3      | 6'                | 2-3/8"            | 3"               | 22.83"         | 21.26"  |
| 60/3      | 6'                | 2-7/8"            | 3-1/2"           | 23.62"         | 22.44"  |
| 70/3      | 6'                | 3-5/16"           | 4"               | 25.60"         | 23.62"  |
| 20/4      | 8'                | 7/8"              | 1-1/8"           | 13.78"         | 13.00"  |
| 25/4      | 8'                | 1"                | 1-3/16"          | 15.35"         | 13.78"  |
| 30/4      | 8'                | 1-1/4"            | 1-1/2"           | 16.53"         | 14.96"  |
| 35/4      | 8'                | 1-1/2"            | 1 3/4"           | 18.50"         | 17.32"  |
| 40/4      | 8'                | 1-3/4"            | 2-1/8"           | 20.87"         | 19.30"  |
| 50/4      | 8'                | 2"                | 2-3/8"           | 22.83"         | 21.26"  |
| 60/4      | 8'                | 2-3/8"            | 3"               | 23.62"         | 22.44"  |
| 70/4      | 8'                | 2-7/8"            | 3-1/2"           | 25.60"         | 23.62"  |
| 20/5      | 10'               | 3/4"              | 7/8"             | 13.78"         | 13.00"  |
| 25/5      | 10'               | 7/8"              | 1"               | 15.35"         | 13.78"  |
| 30/5      | 10'               | 1"                | 1-3/16"          | 16.53"         | 14.96"  |
| 35/5      | 10'               | 1-1/4"            | 1-1/2"           | 18.50"         | 17.32"  |
| 40/5      | 10'               | 1-1/2"            | 1-3/4"           | 20.87"         | 19.30"  |
| 50/5      | 10'               | 1-3/4"            | 2-1/8"           | 22.83"         | 21.26"  |
| 60/5      | 10'               | 2"                | 2-3/8"           | 23.62"         | 22.44"  |
| 70/5      | 10'               | 2-3/8"            | 3"               | 25.60"         | 23.62"  |
| 20/7      | 13'               | 1/2"              | 5/8"             | 13.78"         | 13.00"  |
| 25/7      | 13'               | 5/8"              | 3/4"             | 15.35"         | 13.78"  |
| 30/7      | 13'               | 3/4"              | 7/8"             | 16.53"         | 14.96"  |
| 35/7      | 13'               | 7/8"              | 1"               | 18.50"         | 17.32"  |
| 40/7      | 13'               | 1"                | 1-3/16"          | 20.87"         | 19.30"  |
| 50/7      | 13'               | 1-1/4"            | 1-1/2"           | 22.83"         | 21.26"  |
| 60/7      | 13'               | 1-1/2"            | 1-3/4"           | 23.62"         | 22.44"  |
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