



FABRICATING MACHINERY

SIHR SIH series

3 Roll
Double Pinch
Hydraulic
Plate Rolls

No Matter
the Application...
CARELL Provides
Superior Solutions



45 Years of Worldwide On-Going Innovation and Engineering Superiority.

SIHR SERIES *PRECISION ENGINEERED DEPENDABILITY*

SIHR-EXP 17/5
Shown with EXP
trailing lead console,
push buttons, and
2 optional LED's



SIHR SUPERIOR FEATURES

- 3 Rolls Driven by planetary speed reducer & radial piston motor groups
- Lateral Roll Planetary Movement & Hydraulic Balancing offer 60% fewer moving parts / lower maintenance than torsion systems
- Roll Rotation on high dynamic load SKF spherical bearings carry higher loads when inclined for cone rolling, increase efficiency and reduce maintenance
- Extra Strong Hydraulic Drop End facilitates swift removal of parts
- Cone Rolling Device and Automatic Lateral Roll Inclination standard on all SIHR models
- Extended Roll Shafts on all units permit use of optional profile dies
- Heavy I-Beam machine bed adds rigidity and is the strongest in the industry
- Oversized Low Profile End Frames for unsurpassed machine strength

SIHR OPTIONS

- Controls available in STD and EXP Versions
- Induction Hardened Rolls
- LED Digital Displays 2 each or 4 each
- Profile Rolling Dies for Extended Shafts
- 3 Spd. Rotation STD, 3 Spd. or Variable Speed EXP
- Overhead and Lateral Material Supports
- SIHRV VERTICAL, any model converted to vertical format



Dual Drive Direct Coupled Top drive on SIHR 10/through 17/units



Removable Collar Cone Device Standard on SIHR Units



Hydraulic Drop End & Low Reinforced Shoulders for EASY Part Removal



Optional Profile Rolling Dies Shown Mounted on Standard Extended Shafts will roll Flats, T and L shapes. Tube & Pipe Dies Available



STD Controls Front Satellite Console with Push Button Controls, Shown with Optional LED Displays



Innovative Space-Saving Design (SIHR 6/8) Inside Planetary Reducer reduces L.O.A. by Over 2 feet!



SIHR-V Vertical Option on any Machine

CARELL
CORPORATION
FABRICATING MACHINERY

CARELL CORPORATION
P. O. Box 850, Stapleton, AL 36578-0850
TEL 251.937.0947
FAX 251.037.0957

SIHR SERIES *PRECISION ENGINEERED DEPENDABILITY*

SIHR-STD 10/4
Shown with
Standard
Control
Station



CARELL 3 ROLL ADVANTAGES

EXP Controls Detached Console/Push Buttons, Optional LED Displays



Automatic Inclination of Lateral Rolls
for Cones Direct from Control Desk

SUPERIOR STANDARD FEATURES
Increased Value - Versatility

ENGINEERING SUPERIORITY
Over 45 Years of Design Innovation

DIRECT POWERED ROLLS
Maximized Efficiency

SIHR VERTICAL OPTION
Easier Handling of Large Cylinders

SUPERIOR OEM COMPONENTS
Siemens, Parker, SKF, Bosch, GE, etc.

LOW MAINTENANCE DESIGNS
Increased Productivity



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SIH-PBS SERIES

HEAVY DUTY, FAST, ACCURATE

SIH-PBS SUPERIOR FEATURES

- 3 Rolls Driven by Independent Direct Coupled Hydraulic Drives for near 100% torque delivery to the workpiece
- Electronic Proportional Balancing System maintains roll parallelism or cone incline via microprocessor. Simple, Reliable, Precise, Eliminates maintenance, Reduces moving parts by 80% over torsion balanced systems
- LED Displays monitor both ends of lower rolls
- 3 Speed Rotation
- Cone Rolling Device and Automatic Lateral Roll Inclination standard on SIH-PBS
- Spherical Roller Bearings, Force Lubricated for Smooth, Efficient, Energy Saving Operation
- Lateral Rolls move in Rectilinear Inclined Guides with non-metallic gibbs for a Rugged and Simple design delivering Maximum Cylinder Tonnage to the Rolls. SIH-PBS System eliminates over 75% of the mechanical parts found on other systems, reduces maintenance and Significantly extends Machine Life
- Massive Reinforced Single Weldment End Frames provide Superior Rigidity and Strength
- Forced Central Lubrication System



SIH-PBS
Proportional Balancing System



3 Direct Drives for near 100% Torque Efficiency is Standard



Extended Shafts are standard (up to model 25/7) for use with optional profile rolling dies.



SIH-PBS Control Console with 4 LED Readouts and Digital Parallelism and Inclination of bending rolls



Hydraulic Lift / Drop End on Top Roll facilitates Removal of Large Heavy Parts



SIH-FB2
Model 33/5 'x 1-1/2"



Overhead & Lateral Supports
Optional on all
SIH & SIHR
Models

SIH-PBS OPTIONS

- Induction Hardened Rolls
- Profile Rolling Dies (up to Mod. 25/7)
- Stepless Variable Speed Overhead & Lateral Supports
- Auto Plate Squaring Bar
- Loading, Ejecting or other Material
- Handling Accessories

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SIHR SERIES TECHNICAL SPECIFICATIONS

6'x1" to 12'x1/2"

SIHR Model	Total ROLL LENGTH	Pre-bend Capacity	Rolling Capacity	Roll Diameters	
				Top	Lateral
6/3	6.72'	5/16"	3/8"	7.80"	7.10"
8/3	6.72'	3/8"	1/2"	8.66"	7.48"
10/3	6.72'	1/2"	9/16"	9.84"	9"
12/3	6.72'	5/8"	11/16"	11.00"	10.24"
15/3	6.72'	3/4"	7/8"	11.80"	11"
17/3	6.72'	7/8"	1"	13"	12.20"
6/4	8.36'	1/4"	5/16"	7.80"	7.10"
8/4	8.36'	5/16"	3/8"	8.66"	7.48"
10/4	8.36'	3/8"	1/2"	9.84"	9"
12/4	8.36'	1/2"	9/16"	11"	10.24"
15/4	8.36'	5/8"	11/16"	11.80"	11"
17/4	8.36'	3/4"	7/8"	13.00"	12.20"
6/5	10.17"	3/16"	1/4"	7.80"	7.10"
8/5	10.17"	1/4"	5/16"	8.66"	7.48"
10/5	10.17"	5/16"	3/8"	9.84"	9"
12/5	10.17"	3/8"	1/2"	11"	10.24"
15/5	10.17"	1/2"	9/16"	11.80"	11"
17/5	10.17"	5/8"	3/4"	13.00"	12.20"
6/7	13.28"	11ga	1/8"	7.80"	7.10"
8/7	13.28"	8ga	5/32"	8.66"	7.48"
10/7	13.28"	7/32"	1/4"	9.84"	9"
12/7	13.28"	1/4"	5/16"	11"	10.24"
15/7	13.28"	5/16"	3/8"	11.80"	11"
17/7	13.28"	7/16"	1/2"	13.00"	12.20"



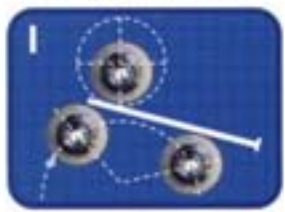
SIH-PBS SERIES TECHNICAL SPECIFICATIONS

6'x4" to 12'x2"

SIH-PBS Model	Total ROLL LENGTH	Pre-bend Capacity	Rolling Capacity	Roll Diameters	
				Top	Lateral
20/3	6.72'	1"	1-3/16	13.78"	13.00"
25/3	6.72'	1-1/4"	1-1/2"	15.35"	13.78"
30/3	6.72'	1-1/2"	1-3/4"	16.53"	14.96"
35/3	6.72'	1-3/4"	2"	18.50"	17.32"
40/3	6.72'	2"	2-3/8"	20.87"	19.30"
50/3	6.72'	2-3/8"	3"	22.83"	21.26"
60/3	6.72'	2-7/8"	3-1/2"	23.62"	22.44"
70/3	6.72'	3-5/16"	4"	25.60"	23.62"
20/4	8.36'	7/8"	1-1/8"	13.78"	13.00"
25/4	8.36'	1"	1-3/16	15.35"	13.78"
30/4	8.36'	1-1/4"	1-1/2"	16.53"	14.96"
35/4	8.36'	1-1/2"	1-3/4"	18.50"	17.32"
40/4	8.36'	1-3/4"	2-1/8"	20.87"	19.30"
50/4	8.36'	2"	2-3/8"	22.83"	21.26"
60/4	8.36'	2-3/8"	3"	23.62"	22.44"
70/4	8.36'	2-7/8"	3-1/2"	25.60"	23.62"
20/5	10.17'	3/4"	7/8"	13.78"	13.00"
25/5	10.17'	7/8"	1"	15.35"	13.78"
30/5	10.17'	1"	1-3/16	16.53"	14.96"
35/5	10.17'	1-1/4"	1-1/2"	18.50"	17.32"
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70/7	13.28"	1-3/4"	2"	25.60"	23.62"

Length & Capacities not listed are available upon request.

3 ROLL DOUBLE PRE-BEND SEQUENCE



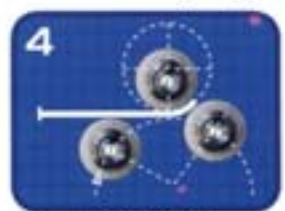
Position Leading Edge at Pinch Point



Pre-bend Leading Edge



Reposition Rolls, Pinch Trailing Edge



Pre-bend Trailing Edge



Roll Cylinder Body



Close Cylinder

Incari(Mfg.) and Carell Corp. reserve the right to revise design, construction and specifications without prior notice. Dimensions, capacities and other aspects may be affected. Chart based upon 36,000 psi yield mild steel.

RUGGED, SUPERIOR QUALITY MACHINES

Advanced Plate Bending Technology

BACKED BY OUR UNMATCHED PLATINUM WARRANTY!



4RH PBS NC
Numerical Controls



4RH-B SERIES
Over 25 Models
4 Roll - Custom Sizes Available!



4RH100 SERIES
CNC Optional
4 Roll Hydraulic Plate Rolls
3' to 10' • 14Ga to 1/4" Capacity



A31 Series
LS Series
40 Models
28Ga - 11Ga
Small Sheet Metal
3 Roll Powered Initial Pinch
3' to 10' • 28Ga to 5/16" Capacity



Hydraulic Initial Pinch Plate Rolls
Hydraulic Bending, Pinch, Tilt, Drop End and Many More Great Features come Standard!
3' to 10' - 16Ga to 1/4" STD & EXP Versions



VERTICAL SYSTEMS



HI-TECH SERIES OVER 25
2 Roll & 4 Roll MODELS!

Auto Cycle to Fully Automated Production Cells



CPHV SERIES
From 3/4" to 10" Angle Capacities
OVER 15 MODELS!

CPHV70

CPHV190



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Visit us on the Web at: www.carellcorp.com

