



**HINDUSTAN  
HYDRAULICS**

Interested in our machines?  
Contact us. We respond immediately.

**59**  
YEARS  
1954-2023



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1001-1002



Welcome to the world of  
Sheet Metal Forming Machines by Hindustan Hydraulics  
Give your business an accolade in productivity & competitiveness.



At Hindustan Hydraulics everything starts with passion to create practical solutions. Our obsession for innovative thinking, passion for precise technology and modern approach towards manufacturing has led to the persistent and uncompromising quest to create the most uniquely designed international standard sheet metal forming machines.

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Hindustan Hydraulics (HHR) was incorporated in 1969 by our CMD MMS Khosla, with the vision to cater to the growing Indian industrial sector's requirements for Sheet Metal forming Solutions, matching the best in the international markets. The portfolio included hydraulic presses of different sizes and applications such as forming presses, deep draw presses, forging presses, stamping presses etc. There were numerous international collaborations with world leaders like TOS, Craquelovain for presses and HOISCH MPD Germany, for re-rolling equipment for Indian Railways.



MMS Khosla  
CMD

Through one of the toughest socio-economic conditions, HHR, grew to be recognised in the domestic and international manufacturing industry as a dependable manufacturer of hydraulic presses. In 1988 HHR, technically collaborated with M/s Stanley for H-band to manufacture the Japan CNC Hydraulic Press Brakes and NC Hydraulic Shearing Machines. In the 90s with the opening up of the Indian economy, we faced enormous competition from established domestic and international giants in the field. But due to constant innovations, superior working, high quality and a committed team, HHR survived and grew to capture large percentage of the market share.

Growth continues at a steady pace. We have grown to a 14000 sq. mt. state of the art manufacturing unit, employing qualified personnel right from design, manufacturing, quality control, sales & service departments.

In the domestic market, we are considered as the preferred vendor by the top engineering companies, in the private as well as public sector, with more than 8000 installations.

Discover the world of Hindustan Hydraulics





## WELCOME TO HINDUSTAN HYDRAULICS

### WHERE INNOVATION SHAPES POSSIBILITIES

In a world where the ordinary is abundant and industries conform to norms, there exists a beacon of innovation that has illuminated the path to possibilities for us decades. At Hindustan Hydraulics we are the architects of metal forming in the metal forming industry.

### UNVEILING EXCELLENCE

"For four decades, we've mastered our craft, shaping more than metal, but a lasting legacy." Our CNC Press Brakes, CNC Fiber Lasers and MC Shearing machines are not just tools; they are the embodiment of precision, pride, and pioneering spirit.

### PIONEERING FIRSTS

We were the first in India to introduce a 1.6-ton CNC Hydraulic Press Brake, the first to pioneer the 16-ton CNC Hydraulic Press Brake, the first to install an 800-Ton CNC Press Brake, and the first to commission a 3300-ton Shearing machine. Hindustan Hydraulics doesn't follow trends; it sets them. We didn't just join the race; we set the pace.

### UNMATCHED EXPERIENCE

Our commitment isn't just to products; it's to the people who rely on them. We've built a PAN-INDIA NETWORK, stitching together reliability, integrity, transparency, sustainability, ethics, and safety.

### DEDICATED TO EXCELLENCE

Our team is more than just workers; it's a family. Experienced, dedicated, unified, and motivated, they are the driving force behind our commitment to revolutionize metal forming.

### TRUST AND RELIABILITY

In an era where trust is a rarity, we stand as a symbol of reliability. For us, trust isn't just a word; it's our foundation. Staying True is our only moral obligation to our valued clients.

### THE VISION AHEAD

Our vision extends beyond the horizon. We envision a world where metal forming is not just a process but an art, where efficiency, quality, and sustainability converge seamlessly. We see how to inspire the industry to embrace the new era of possibilities.

Come join us - Where innovation is our heritage, excellence is our tradition, and transformation is our future.

Welcome to Hindustan Hydraulics.

Welcome to the future of metal forming.

### Company Philosophy



### Vision, Mission Statement Credo & Strength

#### Vision

We wish to be become a leader of sheet metal forming solutions and stay ahead in our goal of contribution towards environment and society.

#### Mission Statement

To manufacture and supply innovative quality products and services to achieve customer delight.  
To engage all our business associates, customers and employees to add company's progress, so that all around prosperity, mutual respect and pride to each other.  
To contribute to human dignity, welfare of all associates, safety, health of our employees and environment protection.

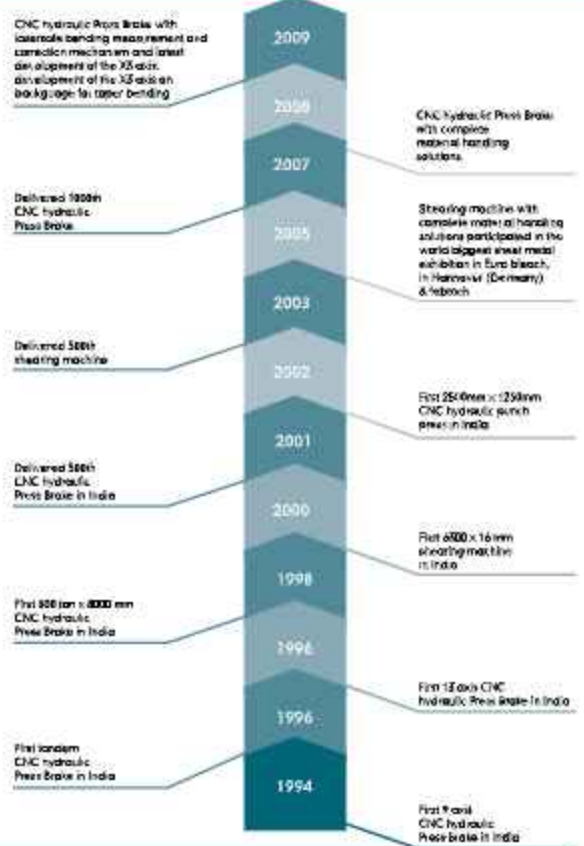
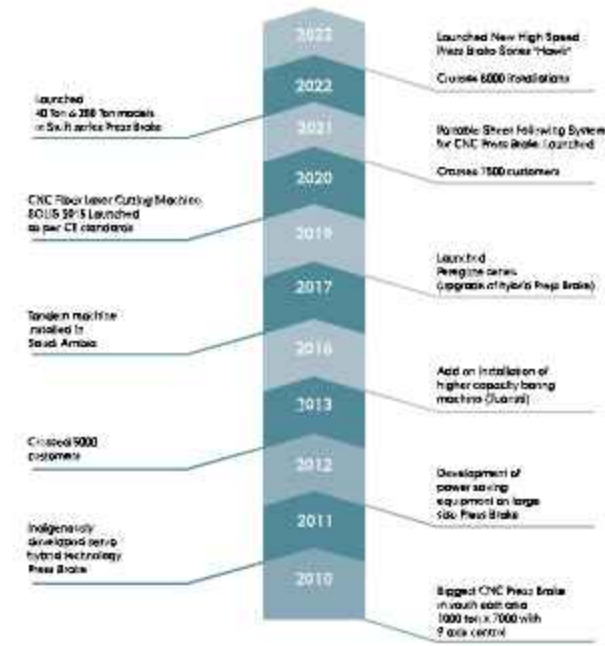
#### Our Strength



#### Credo



**WE ARE THE LARGEST MANUFACTURERS OF CNC HYDRAULIC PRESS BRAKE & NC/CNC HYDRAULIC SHEARING MACHINES IN SOUTH-EAST ASIA.**



## Manufacturing Excellence



Perfection is not attainable,  
but if we chase perfection, we can  
catch excellence.

## HINDUSTAN HYDRAULICS | MANUFACTURING EXCELLENCE

101 | 11

- To achieve manufacturing excellence, we begin by procuring high quality steel plates of desired sizes. After proper inspection of these plates, we process the plates with oxy-fuel laser cutting machines thus ensuring the best possible results.

All the steel components are shot blasted in shot blasting machine to make these steel sheets free of any rust & scaling and ready for the prime coating.

We use MIG welding and Air welding machines for the welding process.

To enhance the dimensional stability and mechanical integrity of welded components and heavy structures, stress relieving is done with vibratory stress relieving method.



Boring Shop





SINGLE SETUP MOVING COLUMN  
HORIZONTAL & VERTICAL CNC MILLING MACHINE

WORLD'S BEST FLOOR BORING MACHINE FOR MILLING AND DRILLING,  
CAPABLE OF HANDLING UP TO 9 METER FRAMES IN SINGLE SETUP





SINGLE SETUP MOVING COLUMN  
HORIZONTAL & VERTICAL CNC MILLING MACHINE

SWASTI FLOOR BORING MACHINE IS THE BEST MACHINE FOR MILLING AND DRILLING,  
CAPABLE OF HANDLING UP TO 9 METERS FRAMES IN SINGLE SET-UP WITH  
SPINDLE ROTATION AT 500 AND AUTOMATIC TOOL CHANGER (ATC)



CNC MACHINE SHOP

At Industan hydraulics we believe that world with technology is full of possibilities. Industan hydraulics CNC machine shop is fully equipped and very large, one-stop solution for computerized machine cut tools and components of our components are manufactured & assembled in-house.

Besides that, we have complete record of all hydraulic machine used to our customer for ensuring full backup support during spare part requirements. We have latest CNC turning center, CNC reaching center (3-4 Axis), CNC horizontal machining center, vertical line CNC machines.

Our commitment is to use advanced technology to manufacture our components to ensure supreme quality of our final products.





FINAL ASSEMBLY AREA

Production control system was established based on many years of continuous improvements, full automation with a human touch to achieve great quality. Craftsmanship at our facility was achieved by learning manufacturing through years of manual work, then passing it on others. Stepwise approach towards machine building is done to fully satisfy customer requirements.

Going forward, we will maintain our tradition dedication to constantly developing better machines which can deliver long term benefits to our esteemed customers.

In order to produce our standard & custom built machines, we practice in process & stage inspection quality control system for zero defect manufacturing.

Information to produce machine is quickly sent to PPC as soon as possible, machine is efficiently built with the shortest possible time by adhering to the following:

- We produce 80% of machine components at standard as well as customer built machine at our own.
- We are rightly stocked of all the necessary components required in manufacturing of type of machine.
- Assembly is not quicky led by our strong team of store department and PPC team.
- Some parts are manufactured by quick purchase and in house production team.

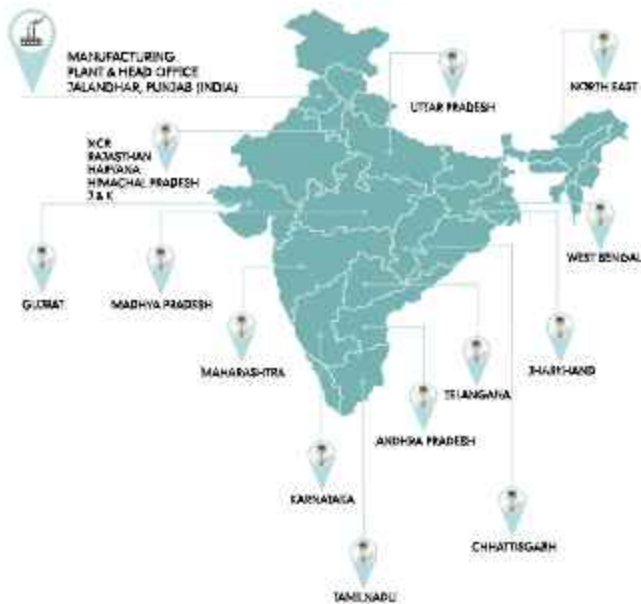


FINAL ASSEMBLY AREA



FINAL ASSEMBLY AREA





We are covering pan India with a large service & sales network comprising of over 50+ employees

HINDUSTAN HYDRAULICS CROSSES

# 8000 CUSTOMERS

ACROSS THE FOLLOWING SECTORS FORMING THE LARGEST REFERENCE LIST



Agricultural Implements



Construction Machinery



Heavy Fabrication



Commercial Automotives



Luxury Coaches



Freight Wagons & Coaches



High Mast Polygonal Poles



PBE Solutions & Structures



Steel Door Frame, Almirah, Clean Room & Elevators



Enclosures & Electrical Panels



Defence



Other Applications

01

Product Range  
**LASER CUTTING**

CNC Fiber Laser Cutting Machine  
3025L23

02

**SHEET METAL BENDING**

CNC Hybrid Servo Press Brake  
3025L23/24

CNC Hydraulic Press Brake

3025L23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100

Entry Level CNC Hydraulic Press Brake

3025L23/24

03

**SHEET METAL CUTTING**

NC Shearing Machine

3025L23/24

**OUR SHEET METAL  
PROCESS SOLUTIONS**

CNC FIBER LASER CUTTING  
**SOLIS**





CNC FIBER LASER CUTTING  
**SOLIS**



INDUSTAN  
HYDRAULICS

**1** LIGHTNING FAST CUTTING  
Achieve efficient cutting with maximum efficiency.

**2** SHEET SCANNING FUNCTION  
Accurately map and trace metal sheets for precision.

**3** SMART PARAMETER SETUP  
Easily setup an optimal cutting setup with Parameter Expert.

**4** BOOST YOUR SPEED  
Boost productivity with high-speed performance.

**5** SEAMLESS INTEGRATION  
Easily integrate with multiple third-party support.

**6** BEAM ADJUSTMENT FUNCTION  
Easily adjust focus for precise metal cutting.

**7** DYNAMIC FUME EXTRACTION  
Optimize smoke removal during laser cutting process.

**8** QUICK PUNCH PIERCING  
Easily achieve holes in a wide range of materials.

**LASER CUTTING HEAD**

- Cutting head has highly efficient optical configuration for cutting accuracy to 0.03 mm
- Easy to change protection glasses
- Special composite lens ensuring high quality cutting
- Very easy to maintain

**FRAME**

- Welded frame is fully stress relieved with Gantry supported on both bearings
- This concept besides the superior rigidity, enables a wide access to the working area
- Frame is designed to withstand high acceleration speeds

**AXIS CONTROL**

- Gearbox helps the cutting process for years with no change in its characteristics
- Machine is fully protected, accessories and tools for all industrial environments
- Movement of X & Y axis made by servo motor through rack and pinion drive
- All servomotors are connected digitally with HMI ESA-875V
- The gantry is driven by two axles, during the cutting, the sheet remains still while cutting head moves over the plate

**LASER SOURCE**

- Fiber laser product a beam which is an excellent light quality for laser cutting
- Wavelength, high power capacity, good light quality, a wide range of cutting, more power output and small focus distance provide vertical laser light for many cutting applications
- Laser source (PS) has following features:-
- Very reliable & very high efficiency
- Low operating cost & simple operation

**CNC CONTROLLER- ESA 875V**

- ESA 875V has following features:
- 21" touch screen
- Digital control of servo motor
- Graphical visualization of laser
- High speed motion control

**DUAL PALLET CHANGER**

- The plate feeding or extraction of the cut plates can be done automatically by means of system of shiftable table
- The system is fully integrated on the machine and can be easily associated to an automatic loading/unloading system

Laser cutting system		Sola 3015 Fiber Laser	Sola 4020 Fiber Laser	Sola 6020 Fiber Laser	Sola 8020 Fiber Laser	
Max table size	Y	3000	4000	6000	8000	mm
	X	1500	2000	2000	2000	
	Z	270	270	270	270	
Cutting rate	Y	31:06	41:10	61:10	81:10	mm
	X	15:10	20:10	20:10	20:10	
	Z	2:70	2:70	2:70	2:70	
Max in performing speed per second		135	135	135	135	mm/min
Max in simultaneous speed per second		180	180	180	180	mm/min
Maximal repeatability of positioning of axis (mm)		0.02	0.02	0.02	0.02	mm
Average Maximal position deviation of axes (mm)		0.01	0.01	0.01	0.01	
Edge deviation accuracy		+0.5	+0.5	+0.5	+0.5	µg
Max in Air space weight		1100	1900	2900	4200	

Laser source	Fiber 2000	Fiber 3000	Fiber 4000	Fiber 6000	Fiber 8000	
Power	2000	3000	4000	6000	8000	W
Max electrical consumption of system***	16	20	25	35	50	kW
Wavelength	Fiber	Fiber	Fiber	Fiber	Fiber	Å
Maximum sheet thickness***						mm
Ni d steel (Q2) upto	16	20	22	25	40	mm
Stainless steel (IN2) upto	8	10	12	16	25	mm
Aluminium (N2) upto	6	8	10	18	19	mm
Copper (N2) upto	4	6	8	12	16	mm
Brass (N2) upto	4	6	8	12	16	mm

Specifications may change due to technical alterations / upgrades

CNC SERVO HYBRID PRESS BRAKE  
**PEREGRINE**



CNC SERVO HYBRID PRESS BRAKE

# PEREGRINE

INDUSTAN  
HYDRAULICS



## 1 LIGHTNING-FAST BENDING

Active 2.5 ton/s for bending speeds to increase productivity.

## 2 WHISPER-QUIET BENDING

Only quiet operation for a comfortable work floor.

## 3 MINIMAL HEAT BUILDUP

Low heating ensures stable form, low maintenance & low costs.

## 4 COMPACT DESIGN

Compact hydraulic oil tank with low space utilization.

## 5 BRILLIANT WORK ENVIRONMENT

Work illumination across production with led-light conditions.

## 6 SWEET BACKGAUGE

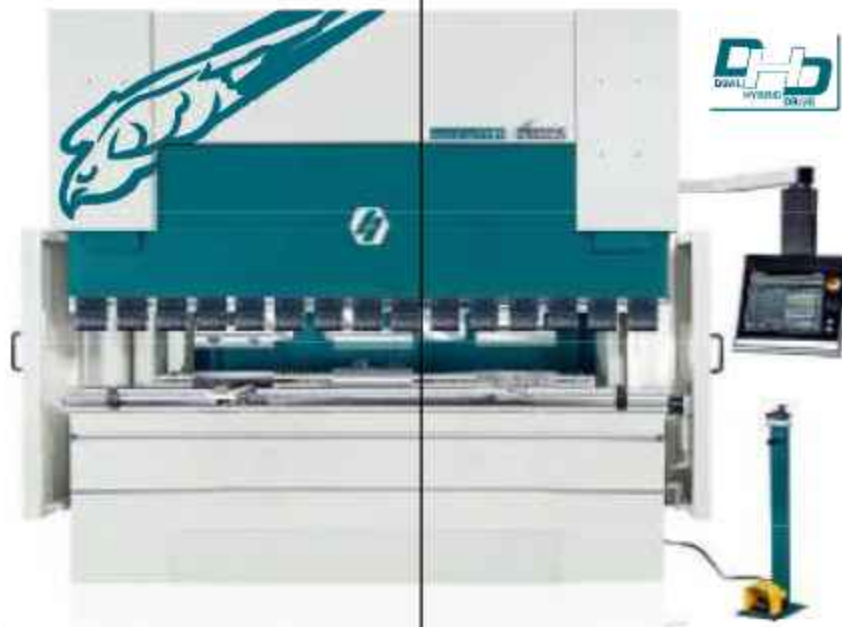
Reproducible backgauge with wide catch directions permitted.

## 7 ENERGY-EFFICIENT SOLUTION

Such energy costs with 70% lower consumption.

## 8 DUAL POWER INNOVATION

Dual Hybrid Power Pack for intensive utilization.



KEY FEATURES

- High Efficiency: Dual hybrid drive delivers real-time control over speed, position, and force.
- High Precision: Actively damped hydraulic circuit, excellent performance.
- Elevated Elegance: Achieve high rpm positions without proportional valve reliance.
- Micron-Level Precision: Bend accuracy within an astonishing  $\pm 0.05$  per meter.
- Rapid Speed: Lightening fast approach, bending, and return speeds.
- Increased Productivity: 75% faster cycle time for unbeatable productivity.
- Cool Running: Low oil heating sustains system longevity.
- Green Machine: Environmentally friendly with 70% lower energy consumption.
- Minimal Maintenance: Lower maintenance to an absolute minimum.
- Compact design with a 65% smaller footprint.

STANDARD SCOPE OF SUPPLY

- CNC (Hydra Y1) Control
- Delta OLS1T Controller
- CNC X Axis backgauge AC servo driven, R Axis Manual Adjustment & Z Axis on Dual LM Guide
- CNC Anti-Deflection system
- Two flip top specially designed backgauge fingers
- Quick release punch clamp
- Two front supports on LM Guide
- Side & rear safety guard
- Foot pedal with emergency switch
- Front & back LED light
- Safety over international standards
- One set of operational and maintenance manual

TECHNICAL SPECIFICATIONS

Type	Capacity (KN)	Working Length (mm)	Depth (mm)	Stroke (mm)	Travel (mm)	Approach Speed (mm/sec)	Traverse Speed (mm/sec)	Return Speed (mm/sec)	X Axis Speed (mm/sec)
PG-25	250	1250	375	150	100	250	10	250	250
PG-110	1100	2100	675	290	600	290	18	250	690
PG-150	1500	3100	475	250	400	250	15	250	450
PG-300	3000	4100	525	275	450	180	15	180	450

BACKGAUGE SPEED			BACKGAUGE ACCURACY		
1	F AXIS	430 mm/SEC	1	X AXIS	$\pm 0.2$ mm
2	R AXIS	180 mm/SEC	2	R AXIS	$\pm 0.2$ mm
3	Z AXIS	880 mm/SEC	3	Z AXIS	$\pm 1$ mm

Specifications may change due to technical alterations / upgrades



Side Guard for Safety



Quick Release Punch Clamps



Backgauge mechanism on LM Guide and hinged rack on prior



HYBRID POWER RACK

CNC PRESS BRAKE  
**HAWK**  
B E N D I N G . E X P E R T



CNC PRESS BRAKE  
**HAWK**  
BENDING EXPERT

INDUSTAR  
HYDRAULICS

**HIGH SPEED**

Boost your productivity with our high-speed CNC press brake, featuring a faster cycle time that significantly increases your output.

**ENERGY SAVING**

With more than 50% energy saving in each stroke, you get better pricing with increased production. Reap the benefits of higher saving in your production.

**SILENT OPERATION**

With reduced noise level by -18 db and minimal vibrations, extensive comfort and easy of operation - less stress for operator & maintenance.

**HIGH ACCURACY & REPEATABILITY**

Increase the efficiency of your output with reduced opportunity for material to slip during bending process with improved speeds and with high repeatability reduce rejection.

**BRIGHTER ILLUMINATION**

Improving visibility, safety and quality with every bend made resulting better output.

**RAPID ACTION BACKGUAGE**

Experience enhanced precision and speed with our CNC press brake's rapid action backgauge. The levered speed and slider backgauge finger catch ensure superior precision in every bend.

**ENHANCED DESIGN**

For better operation and maintenance, working with the job and less compromise bending any form operational tolerance with maximum simple visibility.





## KEY FEATURES

- **HIGH SPEED** Boost your productivity with our high-speed CNC press brake, featuring a faster cycle time that significantly increases your output.
- **HIGH ACCURACY & REPEATABILITY** Increase the efficiency of your output with reduced opportunity for material waste during bending process with improved speeds and with high repeatability reduce rejection.
- **ENERGY SAVING** With more than 70% energy saving in each stroke you get better saving with increased production. Reap the benefits of higher output in per piece cost.
- **RAPID ACTION BACKGUAGE** Experience enhanced precision and speed with our CNC press brake's rapid action backgauge. The improved speed and wider backgauge finger configurations ensure precision in every bend.
- **BRIGHT ILLUMINATION** Improving visibility, safety and quality with every bend made resulting better output.
- **QUIET OPERATION** With reduced noise level by ~18 db and minimal vibrations, experience comfort and safety of operation - less stress for operator & maintenance.

## STANDARD SCOPE OF SUPPLY

- CNC synchro Y1/Y2 control
- Delcam DA-EST Controller
- CNC X-Axis backgauge AC servomotor, X-Axis Manual Adjustment & Z-Axis on Dual LM Guide
- CNC Anti-Deflection systems
- Two flip type specially designed backgauge fingers
- Quick release punch clamp
- Two frame support arms on LM Guide
- Saw & laser safety guard
- Foot pedal with emergency switch
- VFD motor drive
- Safety as per international standards norm
- One set of operational and maintenance manual

## TECHNICAL SPECIFICATIONS

HAWK										
THICK	CAPACITY (T)	POWER (KW)	NO OF CYCLES/HR	STROKE LENGTH (HEIGHT) (mm)	COVERING SHEET THICKNESS (mm)	FLANGE SIZE (mm)	FLANGE SPEED (mm/sec)	MAX. WORKING LENGTH (mm)	DELTA H (mm)	THROAT (mm)
0-25	0-4	22	2	130	278	17"	130	2500	375	230
100-150	1-10	22	2	130	278	18"	180	2500	475	400
150-200	10-18	24	2	160	300	15"	170	3300	475	400
200-300	20-30	37	2	275	378	17"	180	3300	575	400

BACKGUAGE SPEED			BACKGUAGE ACCURACY		
1	8 AXIS	450mm/SEC	1	8 AXIS	±0.1mm
2	8 AXIS	600mm/SEC	2	8 AXIS	±0.05mm
3	21.2T	900mm/SEC	3	21.2T	±0.1mm

Specifications may change due to technical alterations / upgradation



Quick Release Punch Clamp



Front Arm Support on LM Guide



Laser Safety System for Operator Safety



Wide backgauge fingers on dual LM guide provide stability and precise positioning for accuracy

CNC PRESS BRAKE  
**FALCON &  
GRIFFON**



CNC PRESS BRAKE

# FALCON - GRIFFON



**POWER & VERSATILITY**  
Saves on MRO costs for diverse applications.

**TAILORED BACKGAUGES**  
Custom back gauge options to suit needs.

**TANDEM EXCELLENCE**  
Saves 40% on hydraulic systems options for extended performance.



**PINPOINT PRECISION**  
Achieve unparalleled accuracy and consistent reliability.

**EFFORTLESS BENDING**  
Easily bend high strength and alloy.

**ROBUST FRAMEWORK**  
Rigidly built, they resist frame deflection under full load.

KEY FEATURES

- Productivity & Precision: FALCON & GRIFFON series CNC Hydraulic Press Brake contains reliability, ease of use, and high performance for top notch productivity and precision.
- Robust Frame: The rigid steel frame is stress-relieved, ensuring minimal deflection under maximum load.
- Perfect Parallelism: Built on the Synchronized Bed Extension (S.B.E) principle, it offers Y1-Y2 control for flawless parallelism and ultra-precise bending.
- Versatile Tooling: Adaptable to European and American style tooling with various blank gauge, mitre, and crowning options.
- Operator-Friendly: Packed with features like Direct Angle Programming, Dwell Time Adjustment, and Pressure control for precise and flexible bending.
- Efficiency & Durability: Proxura proportional technology optimizes force, saving power and reducing wear and tear over time.
- Safety Assurance: Complies with standard industrial safety norms for both electrical and hydraulic systems, ensuring operator safety and machine longevity.

STANDARD SCOPE OF SUPPLY

- CNC Hydraulic Press Brake is with following basic scope :
- Prox Beam (Y1-Y2 control)
- Belem DA 95 T CNC colour control
- CNC AC servo drives Backgauge
- X Axis range 8-350 mm with R & Z manual
- Two flap type backgauge fingers
- Manual Punch & die clamping
- Two nos. front support arms
- Side & rear safety guards
- Table with T slot at rear and front side for 200 & above tonnage machines
- Foot pedal control with emergency switch
- Electrical, mechanical & Hydraulic safety as per standard norms
- One set of operational & maintenance manual



Larger Daylight



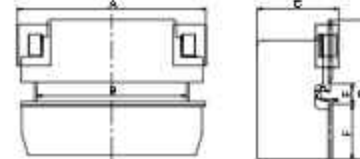
Larger Throat

FALCON																							
Type Machine	Capacity (T)	Stroke (mm)	Number of Columns	Sheet Metal Thickness (mm)	Capacity Roll Forming (mm)	Capacity Roll Punch (mm)	Max. Bore dia. of Rollers (mm)	V of Rollers (mm)	Maximum Capacity (mm)														
									A	B	C	D	E	F	G	H	I	J	K				
75W-61	750	7.0	8	340	150	22	110	450	1500	1500	1500	210	110	110	110	110	110	110	110	110	110	110	110
110W-60	1100	7.5	8	460	180	24	110	480	1650	1650	1650	210	110	110	110	110	110	110	110	110	110	110	110
175W-60	1750	7.5	8	640	220	26	110	500	1750	1750	1750	210	110	110	110	110	110	110	110	110	110	110	110
225W-60	2250	11	12	820	250	28	110	550	1950	1950	1950	210	110	110	110	110	110	110	110	110	110	110	110
310W-60	3100	11	12	1000	280	30	110	600	2150	2150	2150	210	110	110	110	110	110	110	110	110	110	110	110
375W-60	3750	11	12	1180	310	32	110	650	2300	2300	2300	210	110	110	110	110	110	110	110	110	110	110	110
450W-60	4500	11	12	1360	340	34	110	700	2450	2450	2450	210	110	110	110	110	110	110	110	110	110	110	110
525W-60	5250	11	12	1540	370	36	110	750	2600	2600	2600	210	110	110	110	110	110	110	110	110	110	110	110
600W-60	6000	11	12	1720	400	38	110	800	2750	2750	2750	210	110	110	110	110	110	110	110	110	110	110	110

GRIFFON																							
Type Machine	Capacity (T)	Stroke (mm)	Number of Columns	Sheet Metal Thickness (mm)	Capacity Roll Forming (mm)	Capacity Roll Punch (mm)	Max. Bore dia. of Rollers (mm)	V of Rollers (mm)	Maximum Capacity (mm)														
									A	B	C	D	E	F	G	H	I	J	K				
220W-81	2200	10.5	8	400	160	24	110	450	1650	1650	1650	210	110	110	110	110	110	110	110	110	110	110	110
275W-81	2750	10.5	8	460	180	24	110	480	1750	1750	1750	210	110	110	110	110	110	110	110	110	110	110	110
330W-81	3300	10.5	8	520	200	24	110	510	1850	1850	1850	210	110	110	110	110	110	110	110	110	110	110	110
385W-81	3850	10.5	8	580	220	24	110	540	1950	1950	1950	210	110	110	110	110	110	110	110	110	110	110	110
440W-81	4400	10.5	8	640	240	24	110	570	2050	2050	2050	210	110	110	110	110	110	110	110	110	110	110	110
495W-81	4950	10.5	8	700	260	24	110	600	2150	2150	2150	210	110	110	110	110	110	110	110	110	110	110	110
550W-81	5500	10.5	8	760	280	24	110	630	2250	2250	2250	210	110	110	110	110	110	110	110	110	110	110	110
605W-81	6050	10.5	8	820	300	24	110	660	2350	2350	2350	210	110	110	110	110	110	110	110	110	110	110	110
660W-81	6600	10.5	8	880	320	24	110	690	2450	2450	2450	210	110	110	110	110	110	110	110	110	110	110	110
715W-81	7150	10.5	8	940	340	24	110	720	2550	2550	2550	210	110	110	110	110	110	110	110	110	110	110	110
770W-81	7700	10.5	8	1000	360	24	110	750	2650	2650	2650	210	110	110	110	110	110	110	110	110	110	110	110
825W-81	8250	10.5	8	1060	380	24	110	780	2750	2750	2750	210	110	110	110	110	110	110	110	110	110	110	110
880W-81	8800	10.5	8	1120	400	24	110	810	2850	2850	2850	210	110	110	110	110	110	110	110	110	110	110	110
935W-81	9350	10.5	8	1180	420	24	110	840	2950	2950	2950	210	110	110	110	110	110	110	110	110	110	110	110
990W-81	9900	10.5	8	1240	440	24	110	870	3050	3050	3050	210	110	110	110	110	110	110	110	110	110	110	110
1045W-81	10450	10.5	8	1300	460	24	110	900	3150	3150	3150	210	110	110	110	110	110	110	110	110	110	110	110
1100W-81	11000	10.5	8	1360	480	24	110	930	3250	3250	3250	210	110	110	110	110	110	110	110	110	110	110	110

Sectional view change due to technical alterations / modifications





**DA-53T (Standard)**

- Colour high brightness LCD display
- 15.1" wide screen TFT
- LED backlight
- 1024 x 600 pixels
- Industrial grade touch screen
- Storage capacity 1 GB
- Data backup / restore via USB
- USB flash memory (32G)
- Integrated video amplifier
- Remote-dial monitoring
- Profile 53TL offline software



**DA-54T (Optional)**

- 15" TFT
- LED backlight
- 1024 x 768 pixels
- Industrial grade touch screen
- Storage capacity 1 GB
- Data backup / restore via USB
- Integrated video amplifier
- Profile 54T offline software



**DA-66T (Optional)**

- 17" TFT, high brightness
- 1280 x 1024 pixels, 32 bit colour
- Full touch screen control (R-Track)
- Storage capacity 1 GB
- 3D graphics acceleration
- Standard Windows7
- Networking
- Emergency switch
- Integrated OBM-panel
- USB flash memory (32G)
- Profile 66T offline software



**DA-67T (Optional)**

- 17" TFT, high brightness
- 1280 x 1024 pixels, 32 bit colour
- Full touch screen control (R-Track)
- Storage capacity 2 GB
- 3D graphics acceleration
- Standard Windows7
- Networking
- Emergency switch
- Integrated OBM-panel
- Profile 67D offline software

**OFFLINE SOFTWARE PACKAGES**

The Profile T software facilitates offline programming and simulation the bending process. The profile T software offers advanced programming option in 2D/3D in line with the DA touch controller software. Programming the product graphically shows the true scale representation of the intended product. Profile T product visualization gives feedback on the feasibility, collisions, real-time tool and tool adapters for production. Production time calculations, 3D finger walk, structural and product sharing, on-the-windows networking with the CNC press brake and advanced features of the software package.

**CNC ANTI DEFLECTION SYSTEM**

- To achieve very fine and accurate bending values over the entire long lengths, Anti-Deflection system is incorporated in lower bed base to avoid any loss of deflection.
- The principle is based on movement of two special profile wedges, which move in or out of the frame to generate the gaps in the centre of the bending lengths. Spring back of hard material, wear/loss of tools in the centre and deflection in the frame under full load applications affect the desired bending accuracy over the long length.



**THE MECHANISM OF ANTI DEFLECTION SYSTEM**

**BACKGAUGE OPTIONS**

The backgauge is built on a heavy duty mechanical structure fixed on the side frames of the press brake. The standard configuration is servo-controlled X AXIS with two manually adjusted fingers resting on double linear guides.

As an option we can offer 2 AXIS (X, Z), 3 AXIS (X, R, Z), 4 AXIS (X, R, Z, Z2) and 5 AXIS - (X1, X2, Z1, Z2) with ball screw and Z1, Z2 with planetary rack and pinion sliding on linear guides.

Movements accomplished by high precision rack and pinion sliding on linear guides, powered by servo motors for all axis. This system ensures high precision with very low noise and maintenance. Low backlash in the system helps to achieve very high position for small increments.

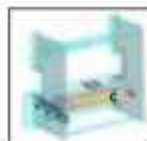


CNC X, R, Z1, Z2 AXIS

BACKGAUGE	X1	R1	Z1	X2	R2	Z2
1 AXIS	✓					
2 AXIS	✓	✓				
3 AXIS	✓		✓			
4 AXIS	✓	✓	✓			✓
5 AXIS	✓	✓	✓	✓	✓	✓



1 - AXIS (X)



2 - AXIS (X & R)



3 - AXIS (X, R & Z)



4 - AXIS (X, R, Z1 & Z2)



5 - AXIS (X1, X2, R1, R2, Z1 & Z2)

CNC PRESS BRAKE  
**SWIFT**  
BENDING EXPERT



CNC PRESS BRAKE  
**SWIFT**  
BENDING EXPERT

**AFFORDABLE EXCELLENCE**

Uncompromised quality at an optimum investment.

**ENDURING RELIABILITY**

Engineered to endure, providing decades of reliable performance.

**PRECISION REDEFINED**

High accuracy and repeatability for flawless results.

**USER-FRIENDLY INTERFACE**

Streamlined operation for seamless productivity.

**ADVANCED INNOVATION**

Part can be equipped with 4 + 1 Axis for enhanced capabilities.





## KEY FEATURES

- Machine designed with dual stroke press beam working.
- Rigidly welded steel frame ensuring minimum deflection under load.
- Full electronic synchronization with advanced operational valve technology to ensure continuous monitoring and correction of the press beam & precise control of the parallelism through CNC system.
- Press beam parallelism and perpendicularity monitored through two high resolution linear glass scales.
- Very accurate and precise stroke depth adjustment accuracy of  $\pm 0.01$  mm.
- VFD based working provision of upper press beam up to 10mm up to 150kVA.
- Off centre bending facility on machine without any change to the guiding system.
- Operator friendly features like about angle programming, angle correction, automatic carriage calculation, speed control, stroke length adjustment, dwell/hold time adjustment, deceleration distance and deceleration speed, programmable backgauge with retraction enables flexibility and very low set-up and time.
- Graphical programming, graphical bend sequence and blank length calculation assures ease of operation.
- Single set machining of the frame structures guarantees in very accurate parallelism along the length of the machine between the lower table and upper press beam.
- Adaptability to modular tooling system and application friendly 60mm table.
- Safety/regulation as per standards.

## STANDARD SCOPE OF SUPPLY

- CNC graphical controller with ISA S 630 station make.
- AC servo backgauge X axis range 0-500mm
- Dual ball screw drive.
- Manual Anti Deflection System.
- Accuracy and repeatability  $\pm 0.1$  mm.
- Upper punch adapter with quick clamping & wedge adjustment.
- 2 rear front support arms.
- Side & rear guard for safety compliance.
- Foot pedal with emergency switch.
- Basic machine complete with all electrical & hydraulic valves.

## FEATURES OF CNC CONTROLLER 'ISA' (ISA S 630)

- Graphical 10 Touch Screen display (1024 x 600 pixels resolution)
- Interactive 2D graphical editor for work piece & blank data entry.
- 3D graphical of machine frame, work piece & tool.
- 3 Serial ports RS 232.
- 1 VGA port for external monitor connection.
- 128 MB memory card, 2 USB (2.0) ports.
- Programming of all axis position, angle programming, backgauge and bending tolerance.



## MANUAL ANTI DEFLECTION SYSTEM

- Machine comes equipped with manual clamping device with hand crank and read out positioned on control side of the bed. The ABS works as special profile wedges. Will take care of deflection of machine, tooling wear and tool unclamping back of the material to achieve accurate bending results over the entire bending length.

## CNC X AXIS BACKGAUGE

- CNC X axis backgauge is driven on dual ball screw through AC servo drive. The backgauge ensures a positioning accuracy of  $\pm 0.1$  mm with 100 % repeatability. R & X axis are manually adjustable as per the requirements. Backgauge values are programmable through the CNC controller with retraction feature. The RP type designed backgauge frame reduces the friction between the material and fingers during the bending operation.

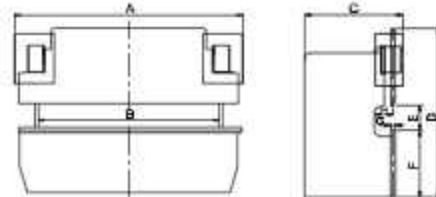
## OPTIONAL ACCESSORIES

- CNC Axis Deflection System
- Additional backgauge pedestals
- Tooling
- Cybernet 12 PS Controller
- CNC X Axis backgauge

## TECHNICAL SPECIFICATIONS

Type	Capacity (TN)	Power (kW)	Number of Columns	Stroke length (mm)	Working Speed (mm/sec)	Max. Speed (mm/sec)	Max. Torque (Nm)	Max. Working Length (mm)	Direction (mm)							
									A	B	C	D	E	F	G	H
40 ZL	400	11	2	310	30	8	72	1670	750	1750	1170	1170	680	60	300	
80 ZL	800	17.5	2	310	30	8	82	1900	2000	1400	1400	1170	500	60	300	
120 ZL	1200	17.5	2	310	30	8	84	1900	2000	1400	1400	1170	500	60	300	
150 ZL	1500	17.5	2	310	30	7.5	74	1900	2000	1400	1400	1170	500	60	300	
200 ZL	2000	15	2	210	30	7	65	1500	1800	1250	1250	1170	500	60	300	

Specifications may change due to technical alterations. Please contact us.



NC SHEARING MACHINE  
**HARRIER**  
CUTTING EXPERT



NC SHEARING MACHINE

# HARRIER

CUTTING EXPERT

INDUSTAR  
HYDRAULICS



## PRECISION REDEFINED

High accuracy and repeatability for better results.

## SWIFT SETUP

Set point adjusters adjust with easy-to-follow steps to speed up.

## PURE CUTTING QUALITY

Reduce burr and dross with the best technology.

## UNINTERRUPTED EFFICIENCY

Technically best and production line productivity.

## ILLUMINATING PERFORMANCE

Enhance process with cutting line illumination.

**KEY FEATURES**

- Rapid blade gap adjustment
- Low maintenance compact and reliable hydraulic system
- Cutting line illumination
- Very accurate NC back gauge system with accuracy of ± 0.1mm
- Adjustable stroke length
- Hydraulic clamps installed with a clear beam
- Fine adjustment of blades with blade locknut
- 3mm free & automatic back gauge results
- Shearing accuracy results better than DIN Standards
- Self-aligning back gauge feature
- Experience of over 1000 supplies

**STANDARD SCOPE OF SUPPLY**

- Set of shear blades mounted on the machine
- NC control for Schneider touch
- NC back gauge 18-1000 mm on hardened & rolled oval lead screw
- Six through finger guards
- Shadow line facility
- Rapid blade gap adjustment
- Top opening unit
- Stroke length control
- Squaring min 1 mm
- Complete machine with hydraulic and electrical cables
- One year operation & maintenance manual

**OPTIONAL ACCESSORIES**

- Electrical blade clearance
- Ball nose back gauge with AC Servo drive
- Slipstream
- Handing rollers
- Synthetic cups
- Turntable stage
- Angle (60°/90°)
- Material handling options
- Pneumatic sheet supports, rollers
- Sheet support cum stacking system
- CE Marking

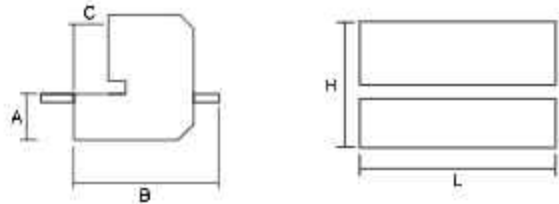
**SCHNEIDER CONTROLLER**

- NC Touch Screen Controller Schneider Make as per following features:-
- Backlit LED Colour TFT LCD
- Display size 3.7 inch
- Pixel resolution 800x240 pixels D/GA
- Back gauge control programming
- Stroke length limitation
- Status indicator
- Panel board housing



Thickness in mm	Width in mm	Blade Length in mm	Blade		Cutting Capacity		Cuts (mm/min)	Cuts (mm/min) (max)	Max. of cuts (mm/min)	Max. of cuts (mm/min) (max)	Max. of cuts (mm/min) (max)	Max. of cuts (mm/min) (max)	Max. of cuts (mm/min) (max)	Max. of cuts (mm/min) (max)	Max. of cuts (mm/min) (max)	Max. of cuts (mm/min) (max)	Max. of cuts (mm/min) (max)	Max. of cuts (mm/min) (max)	Max. of cuts (mm/min) (max)	Max. of cuts (mm/min) (max)	Directions				
			Material	Thickness	Material	Thickness															Material	Thickness	Material	Thickness	Material
6	1000	1100	Q	A	1200	30	13	21.5	12	17	1.1 eq. 18	25	11	18	20-3000	01	500	1500	200	800	500				
6	1000	1100	S	A	1000	30	22	58	12	17	1.4 eq. 18	30	11	15	20-3000	01	600	1500	200	800	500				
8	1000	1100	S	A	1200	30	14	88	12	17	1.4 eq. 18	30	11	15	20-3000	01	700	1500	200	800	500				
9	1000	1100	S	A	1200	30	15	98	12	17	1.4 eq. 18	30	11	15	20-3000	01	800	1500	200	800	500				
12	1000	1100	S	A	1200	30	16	108	12	17	1.4 eq. 18	30	11	15	20-3000	01	900	1500	200	800	500				
15	1000	1100	S	A	1200	30	17	118	12	17	1.4 eq. 18	30	11	15	20-3000	01	1000	1500	200	800	500				
18	1000	1100	S	A	1200	30	18	128	12	17	1.4 eq. 18	30	11	15	20-3000	01	1100	1500	200	800	500				
21	1000	1100	S	A	1200	30	19	138	12	17	1.4 eq. 18	30	11	15	20-3000	01	1200	1500	200	800	500				
24	1000	1100	S	A	1200	30	20	148	12	17	1.4 eq. 18	30	11	15	20-3000	01	1300	1500	200	800	500				
27	1000	1100	S	A	1200	30	21	158	12	17	1.4 eq. 18	30	11	15	20-3000	01	1400	1500	200	800	500				
30	1000	1100	S	A	1200	30	22	168	12	17	1.4 eq. 18	30	11	15	20-3000	01	1500	1500	200	800	500				
33	1000	1100	S	A	1200	30	23	178	12	17	1.4 eq. 18	30	11	15	20-3000	01	1600	1500	200	800	500				
36	1000	1100	S	A	1200	30	24	188	12	17	1.4 eq. 18	30	11	15	20-3000	01	1700	1500	200	800	500				
39	1000	1100	S	A	1200	30	25	198	12	17	1.4 eq. 18	30	11	15	20-3000	01	1800	1500	200	800	500				
42	1000	1100	S	A	1200	30	26	208	12	17	1.4 eq. 18	30	11	15	20-3000	01	1900	1500	200	800	500				
45	1000	1100	S	A	1200	30	27	218	12	17	1.4 eq. 18	30	11	15	20-3000	01	2000	1500	200	800	500				
48	1000	1100	S	A	1200	30	28	228	12	17	1.4 eq. 18	30	11	15	20-3000	01	2100	1500	200	800	500				
51	1000	1100	S	A	1200	30	29	238	12	17	1.4 eq. 18	30	11	15	20-3000	01	2200	1500	200	800	500				
54	1000	1100	S	A	1200	30	30	248	12	17	1.4 eq. 18	30	11	15	20-3000	01	2300	1500	200	800	500				
57	1000	1100	S	A	1200	30	31	258	12	17	1.4 eq. 18	30	11	15	20-3000	01	2400	1500	200	800	500				
60	1000	1100	S	A	1200	30	32	268	12	17	1.4 eq. 18	30	11	15	20-3000	01	2500	1500	200	800	500				

Specifications may change due to technical evolution / applications





**HYDRAULIC SHEET FOLLOWER SYSTEM**

- For bending long and heavy sheet with more comfort and safety/bending.
- It improves efficiency production operator need not use more power lift the sheet.



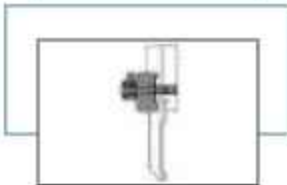
**LASER BASED ANGLE MEASURING SYSTEM**

- Automatic measurement of angle without taking jobs out of machine for actual correction measurement.
- Save the production time by measuring quickly and accurate angle.



**FISSLER HAND SAFETY**

- Provide ultimate safety to operate for bending jobs very close to punch handle.



**HYDRAULIC TOOL CLAMPING**

- Release work and tool-clamping at bending.
- Clamp the tool with more rigidly and safely.



- Our spare and subsystem support is probably the fastest in the industry. With close to 70% our Original spares and sub-systems available at all times. Rest assured that your requirements will always be met. Spare for up to 40 years old machines are also available.
- Very fast down time.
- All orders are processed centrally and the spare parts are dispatched from head office. We use the global logistics network for the fastest possible shipment and shortest transport times.
- Over 5000 different stock.
- Availability raised over 95%.
- More than 275,000 different items in stock.
- Original spare parts straight from the manufacturer.
- Spare parts for older machines are also available.
- Faster response, delivery, and replacement.
- In-house production of most spares.
- Spare parts are guaranteed against any manufacturing defect.
- Total availability of spares of all running models thus reducing inventory of the buyer.
- IAN India common price policy.



