

4-Roll Double Pinch Bending Roll Planetary Guides

*Reliable and
Accurate*



The 4HEP series of 4-roll synchronised bending rolls is the latest design evolution developed by Faccin and tested by the most demanding operators in extreme environments for over 25 years. It combines power, reliability, and precision in an exclusive package, making it the state of the art in modern plate rolls.

A closed loop structure guarantees superior rolling quality and high repeatability of the products roundness that together with the traditional ultra-wide drop end ensure maximum rigidity of the machine against high longitudinal and traverse forces.

The traditional linear RGS design of the pinching roll guarantees higher pinch forces for superior quality pre-bending. The pinch roll is supported by 4 independent bearings (2 on each side) and the bearing housing is two times larger for better lateral load absorption and guiding.

The HFS system features an external mounting of the pivoting lateral hydraulic cylinders, fixed in their highest end as standard configuration on all medium and large sizes of 4HEP to ensure a greater closeness of the bending force application points.

The 4HEP innovative design optimises the entire rolling cycle, working in one direction and in one pass, ensuring extreme safety and the capability of being handled totally by a single operator.

SIEMENS numerical control systems are available in all versions of 4HEP series for the precise control of roller conveyors, automatic loading and unloading systems in the creation of a fully automatic line.

4HEP bending rolls with exclusive Siemens CNC - designed and built by Faccin - are the most reliable and modern solution available amongst all rolling machines with planetary technology in the market today.

The most reasonable investment for high productivity requirements when rolling plates from less than 1m and up to 10m with thicknesses 5 to 150 mm.

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Standard equipment

- Planetary guides system for roll motion (PSG)
- 4 independent bearings supporting the bottom roll (MCS)
- Bearing seats with double width (WHS) on bottom roll
- Electronic synchronisation of roll parallelism (EPS)
- Hardened and polished rolls
- Mobile wheel mounted control console
- Conical device
- Lubrication system
- Emergency barrier around the machine
- CE certified machine

Optional features

- Side motorised rolls
- Automatic loading and unloading systems
- Motorised feeding table
- Automatic ejector
- Central and side supports
- Provision for hot rolling
- Integrated welding system
- Special colours
- CNC Siemens numerical control



Capacity (mm)	Rolls length (mm)	Rolling mild steel (mm)	Pre-bending mild steel (mm)	Rolling stainless steel (mm)	Pre-bending stainless steel (mm)	Minimum Top roll (mm)	Dimension (m)
2000x4	2050	4	3	3.5	2.5	140	3,5x1,0x0,9
2000x8	2050	8	6	7	5	200	3,2x1,1x1,1
2500x3	2550	3	2	2.5	2	145	3,2x1x0,95
2500x6	2550	6	4	5	3.5	200	3,2x1,1x1,1
2500x10	2550	10	8	8	7	245	4x1,4x1,3
2500x12	2550	12	10	10	8.5	285	4,3x1,6x1,4
3000x5	3050	5	4	4	3	200	4,2x1,1x1,1
3000x8	3050	8	6	7	5	245	4,6x1,4x1,3
3000x10	3050	10	8	8	7	285	4,8x1,6x1,4
3000x15	3050	15	12	13	10	300	5x1,6x1,5
3000x20	3050	20	15	17	13	350	5,3x1,9x1,8
3000x25	3050	25	20	22	17	380	5,5x2,1x1,9
3000x32	3050	32	24	28	21	410	5,5x2,2x2
3000x42	3050	42	32	36	28	460	6,1x2,5x2,5
3000x60	3050	60	50	52	43	580	6,5x3,5x3,4
3000x70	3050	70	60	60	52	630	6,8x3,6x3,5
4000x20	4050	20	15	17	13	450	6,4x2,2x2
4000x25	4050	25	20	22	17	500	7x2,5x2,5
4000x32	4050	32	26	28	23	550	7x2,7x2,8
4000x45	4050	45	32	39	28	600	7,5x3,2x3,1
4000x55	4050	55	42	47	36	650	7,7x3,6x3,5
4000x65	4050	65	50	56	43	750	7,9x3,8x3,6

- Special sizes and capacities available upon request. Please send us your inquiries.
- Linear Guides Design (RGS) for small size.
- Planetary Swinging Arms Design (PSG) for medium and big sizes.

• Data can be changed without prior notice in consideration of continuing technological improvements.