

## HSBL-2 BUS BAR FABRICATING SYSTEM



### The perfect bus bar manufacturing

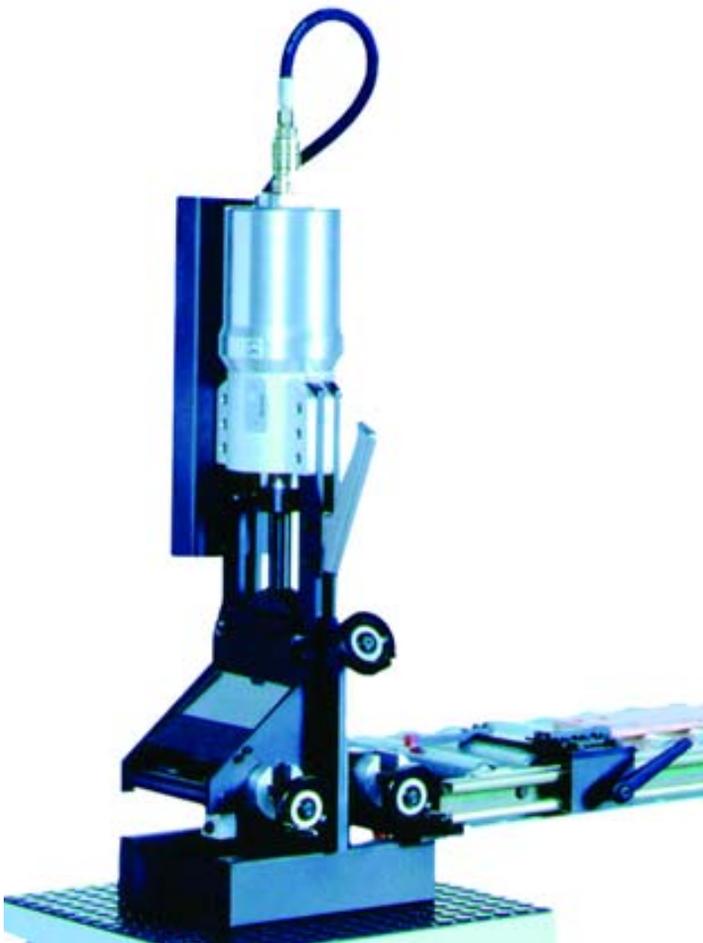
Systematic fabrication of copper bus bars, places very high demands on the precision of tools for punching, bending and cutting. The great flexibility of the HSBL Tool System from Novopress, reliably ensures the easy fabrication of busbars up to 120x10 mm or even up to 160x13 mm (6"x1/2"). With a wide range of cutting and punching tools plus various accessories, the HSBL System is the right choice for start-up and professional users. From a simple and portable basic system, to a high end production line including conveyor work flow, everything is possible. Last but not least there are three choices for bus bar bending, from a portable and very cost efficient bending tool, to the state of the art digital bending bench BGD-3 with unsurpassed precision.

Manage your growth with the flexibility of the Novopress HSBL System.

### Advantages of the HSBL-2 System

- Production costs pleasantly low, only one cylinder and hydraulic power pack required for start-up.
- Smooth flow of materials over an integrated conveyor system improves productivity.
- Wide range of punching dies for round, elongated and square shapes.
- Three different hydraulic power packs for easy portability (HA1 ES) to highest output on stationary systems (HA 4) available.
- Bending with unsurpassed precision and quality. Our BGD-4 offers full automatic compensation off material spring back and allows programming off complete bus bar shapes with up to 20 bendings.

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### HSBL-2 Basic Work Cylinder

The work cylinder is the central and essential point of the Novopress HSBL-2 System. Operated with the various hydraulic power packs, it is the key to perfect, simultaneous and efficient busbar fabrication. The HA1 ES power pack offers maximum portability whereas the HA 4 provides unsurpassed production output. Two simple bolts transform the Novopress HSBL-2 System into a universal cutting, punching or bending tool in no time.

\*Picture shows HSBL-2 work cylinder including cutting tool 160x13 mm (6" x 1/2")

#### Technical Data:

Length	615 mm (24 1/4")
Width	140 mm (5 1/2")
Height	340 mm (13 1/4")
Weight	20 kg (44 lbs)
Operating Pressure	150 bar (2.200 psi)
Force	150 KN (15 t)

Recommended power packs: HA1 ES, HA3 and HA4

#### Order Numbers:

O/N 2420 HSBL-2 work cylinder

### HSBL-2 Cutting Tools

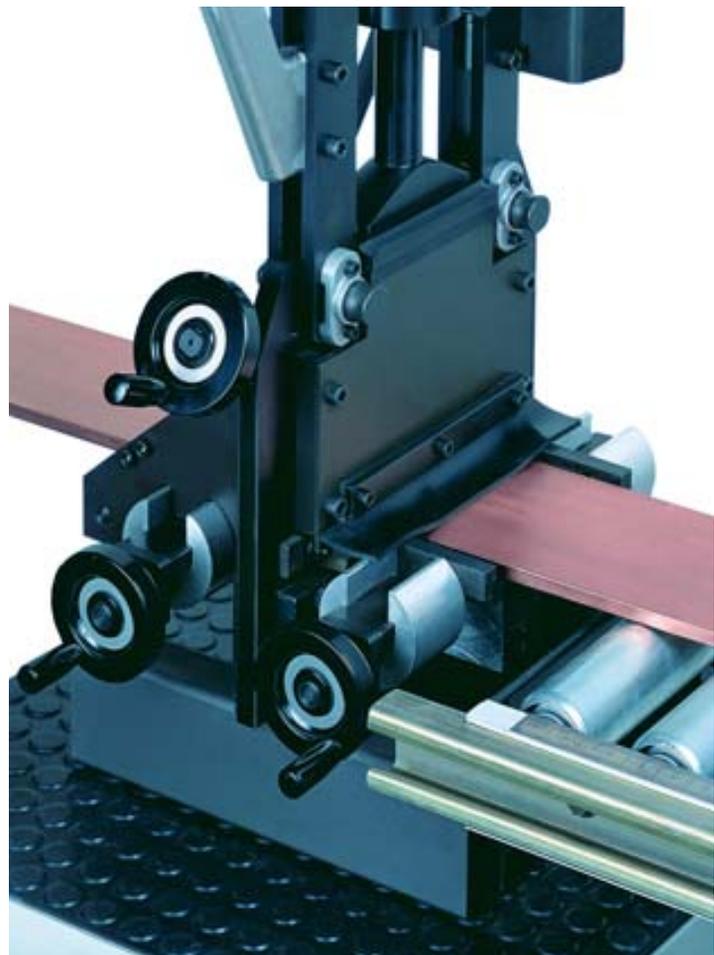
Two different cutting tools are available within the HSBL-2 System. One up to 120x13 mm and as shown on the picture, for 160x13 mm (6" x 1/2") Of course with state of the art operator safety and excellent cutting quality. Additional accessories like fixing vice or conveyor systems are available for professional stationary production. \*Picture shows cutting tool 160x13 mm (6"x1/2") including two fixing vices.

#### Technical data (without accessories)

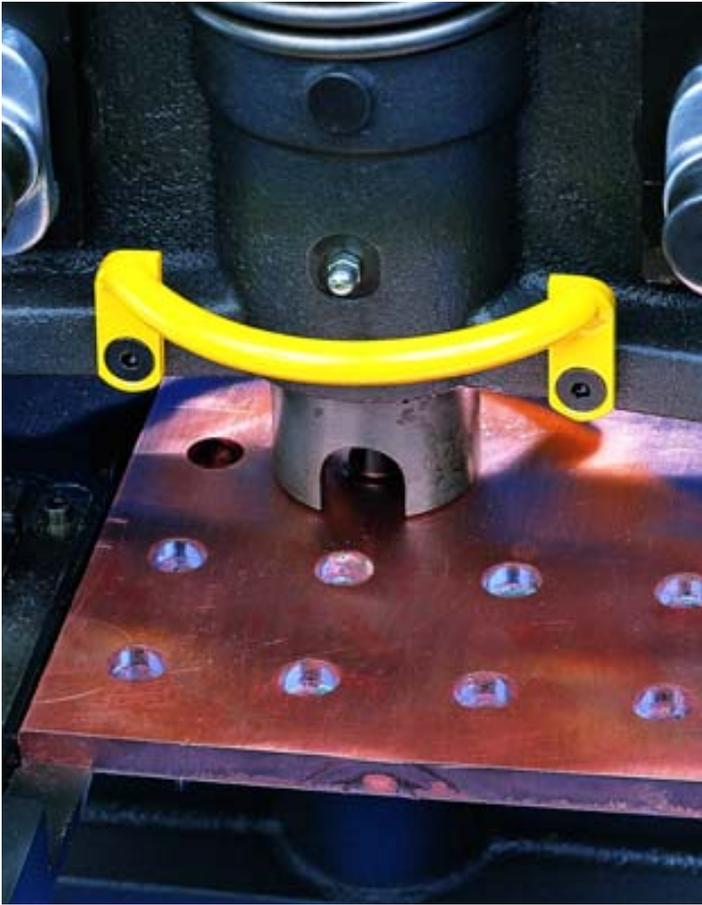
Width	210 mm (8 1/4")
Height	785 mm (30") including work cylinder
Weight	9,6 kg (21 lbs)
Cutting capacity	160x13 mm (6"x1/2") at 250 Nmm <sup>2</sup>

#### Order Numbers:

O/N 2350 Cutting Tool 120x13 mm (4" x 1/2")  
O/N 7020 Cutting Tool 160x13 mm (6" x1/2")  
O/N 7030 Fixing device for 7020  
O/N 34245 Cutting Tool 160x13 mm incl. two vices



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### HSBL-2 Punching Tools

Two punching tools up to 120x13 mm and as shown on the picture for 160x13 mm (6" x 1/2") to suit the job. Excellent punching quality with round, elongated and square dies. Additional accessories like guides for precise positioning are available for extensive production requirements.

\*Picture shows punching tool 160x13 mm (6"x1/2")

Technical data:

Width	440 mm (17 1/4")
Height	900 mm (35") incl. work cylinder
Weight	28 kg (60 lbs)
Punching capacity	13 mm (1/2") thick at 250 Nmm <sup>2</sup>
Round dies	6.6 mm - 21.0 mm (5/16" - 7/8")
Elongated dies	max. 21 mm (7/8")
Square dies	max. 16.5 mm (3/4")

Order Numbers:

O/N 1118	Punch 120x13 mm (4"x1/2")
O/N 7050	Punch 160x13 mm (6"x1/2")
O/N 7190	X-Y positioning guide for 7050
O/N 34243	Punch 160x13 mm incl. positioning guide

### HSBL-2 Basic Bending Tool

The basic bending tool within the HSBL-2 System. Ideal mobility for at site applications up to 120x13 mm (4"x1/2"). Allows exact bending up to 100° with two different radius adaptors, 8 and 16 mm. A simple angle indicator is integrated, hydraulic stop device for repeatable angle setting is available as accessory.

\*Picture shows bending tool incl. HAV2 stop device and HSBL-2 work cylinder.

Technical data (without work cylinder)

Width	210 mm (8 1/4")
Length	625 mm (24") including work cylinder
Weight	6 kg (13 lbs)
Bending capacity	120x10 mm (4"x1/2") at 250 Nmm <sup>2</sup> 100° radius 8 mm and 16 mm

Order numbers:

O/N 1179	Bending Tool with angle indicator
O/N 1627	Hydraulic stop device for angle pre-set.

