

## Manual & Semi-Automatic Punch Benders



### Rugged plate punches and benders for every day use

Glunz & Jensen offers a wide variety of plate punches and plate benders for small circulation newspapers with low volume printing. These semi-automatic plate punches and benders offer the pre-press production shop a highly reliable punch and bend registration solution that is rugged enough for every day use or is great as backup to high speed in-line system at large dailies.

For over 30 years, Glunz & Jensen has provided the printing industry with precision plate punching equipment. Glunz & Jensen has specialized in a wide variety of plate punches from simple systems to high-capacity, high-speed plate punches. This wide variety can meet the needs of any size newspaper or commercial print shop. The success of Glunz & Jensen plate punches can be found in their simple and reliable design, rugged machined parts and sturdy frame. Glunz & Jensen's exacting quality of the M2 tool steel punches that we incorporate into each plate punch provides millions of clean accurate punches time after time. A Glunz & Jensen plate punch is worth its weight in punched chats.

Whether you are a large daily or rural weekly, Glunz & Jensen has a superior line of plate punches and plate benders to meet your daily needs or to serve as backups to other plate punch benders. With a Glunz & Jensen plate punch or plate bender you know you will get the highest quality registered plates.



## Edge Punch Bender (EPB)



The Edge Punch Bender (EPB) is a rugged machine capable of producing precision punched and bent plates. This bender has a large front for easy loading and unloading of plates. The large vacuum keeps the plate in place during the punch and bends cycles.

The EPB comes standard with two M2 punches and with edge registration that can be set to register plates on the same sides as your CtP engine.

The EPB can be ordered with pin registration for conventional film to plate systems or pre-punched CtP plates. Once the plate is registered, the EPB automatically completes the punch / bend cycle with a fast, smooth punch and a roll form of the bend angles without cracking or breaking the plate. With hundreds in service around the world, the EPB is a rugged reliable machine that newspapers depend on for award winning color registration.

## Power Bender (PB)



The Power Bender (PB) is a rugged machine capable of producing precision bends to pre-punched plates. This bender has a large front for easy loading and unloading of plates. The large vacuum keeps the plate in place during the bend cycle. The PB comes standard with edge registration that can be set to register plates on the same sides as your CtP engine. The PB can be ordered with pin registration for conventional film to plate systems or pre-punched CtP plates.

Once the plate is registered, the PB automatically completes the bend cycle with a fast, smooth roll form of the bend angle that does not crack or break the plate. With hundreds in service around the world, the PB is a rugged reliable machine that newspapers depend on for award winning color registration. The PB can be set up to hot score bend plastic flexographic plates.

Glunz & Jensen also offers large format Power Benders for commercial use. The PB can handle up to 78" plates.

## Semi-Automatic Plate Bender (SAB)



The Semi-Automatic Plate Bender (SAB) is one of the most popular benders ever produced in the history of Glunz & Jensen. To this day, the combination of the SAB and the DPPC Power Punch is the industry's best combination for punching and bending plates. The SAB is a compact stand-alone bender with a simple design for making precision plate bends. With two models, one for plates up to 27 inches wide and one for plates up to 38 inches wide, Glunz & Jensen is able to offer this bender with the smallest foot print possible.

The SAB is a front load and unload bender. Once the plates are either pin registered or edge registered, the large vacuum table holds the plate while the bend heads are pneumatically lowered. Then, the operator manually rotates the Glunz & Jensen rotary bend leaf to roll from the precision bend to the plate. While there are no frills to this bender, it does the job quickly and accurately. No wonder newspapers around the world either produce all their plates on a SAB or have one for a reliable back up. The SAB can be set up to hot score bend plastic flexographic plates.

## Shear Punch Bender (SPB)



The Shear Punch Bender (SPB) is ideal for most commercial label web press printers. The SPB is designed to maximize presses with multiple cylinder and web width cutoffs by shearing one size plate to multiple press widths. The SPB is a manual loading, free standing Vision Punch Bender capable of producing plates for variable web widths and press cylinder diameters from one plate size; which reduces inventory and saves money. A well proven vision system using CCD cameras for normalized correlation search routine that offers a high degree of reliability, accuracy and tolerance to the register target degradation which provides reliable service for years to come. Manual loading of the plate initiates electrical contacts that automatically initiates the registration, shear and bend cycles which saves time and increases productivity. The web width can be moved in 1/8 inch increments with a max range of 12 inch.

## Manual Plate Punches (DP)



Glunz & Jensen designed even the simplest tabletop plate punches for exacting quality and repeatability. Its rugged punches provide quality clean punches for years to come. The DP will punch singlewide and doublewide plates. As standard with up to four high quality punches and three solid edge stops. More punches can be added.

No electric services are needed for this tabletop plate punch. Precision handles manually activate the punches. Whether you need to punch a few plates or need an accurate backup, the DP is a quality tabletop punch every production room should have.

## Edge Registered Plate Punches (DPPC)



The DPPC is one of the most popular plate punches Glunz & Jensen sells. The DPPC and the SAB plate bender are a popular combination and sold worldwide as primary plate production equipment or as backup to automated systems.

The DPPC is a stand-alone unit that is a simple plate punch with pneumatic powered punch heads and Glunz & Jensen's three-point electrical edge contact system. The DPPC incorporates three hardened steel edge contacts that automatically activate the punch cycle to produce the plate. The three contacts are mounted on bearings so the plate rolls smoothly into registration. Indicator lights tell you when the plate hits a single contact and then all three. The DPPC includes up to four M2 steel punches. More punches can be added. Both come with a foot pedal override to activate the punch cycle. Ruggedly built, precise operation and reliable, the DPPC is designed for everyday production and is a great backup unit. Glunz & Jensen also offers a large format DDPC for commercial use and small tabletop versions, as well. The DPPC-78 can be made to handle up to 78 inch plates.

## DPPC-T



DPPC-T is a table top version of the popular plate punch DPPC ideal for all with small production facilities.

## Doublewide Plate Punch with Vision (DPPV)



The DPPV punches both singlewide or doublewide plates and quad formatted plates, both 1W x 2L or 2W x 2L size plates for the Asia-Pacific markets. The DPPV series accepts plates with a thickness of 0.202 - 0.305 mm (0.008 - 0.012" ). With a flip of a switch, the DPPV series converts from singlewide to doublewide formats.

For punching nonmetal or in case of power failure, the DPPV includes a backup foot pedal actuator. The DPPV can include up to 10 power-punch heads. The number and location of the plate punches are configured to the customer's specifications. All DPPVs includes hard-coated aluminum platen and punches, which include steel linings. Punches are made for durability from M2 Tool Steel. Gang punches for multiple web widths available.

The DPPV comes standard with Vision and Edge Registration System (pin systems are optional). Glunz & Jensen's Vision Register System uses two digital 25x CCD cameras and a three-axis positioning table and computerized logic for exact registration within a tolerance of +/- 0.013 mm (0.0005"). The Digital Vision cameras are mounted to a stationary frame, independent to the movement of the bend heads. The Edge Registration System is matched to register along the same side as your CtP engine with a tolerance of +/- 0.0254 mm (0.001"). The DPPV is driven by Allen-Bradley Compact Logic PLC's.

## Automatic Plate Punches (AP-200, AP-1000)



AP series Automatic Plate Punches produce a large number of plates quickly and accurately. The AP series can punch 200 or 1000 plates respectively. Plates are placed in the AP where they are registered, punched and stacked for removal. The AP series machines come with and without deleafing systems. The deleafing system is a reliable Glunz & Jensen design that we have used in hundreds of AP units worldwide. The system automatically removes the slip sheet between each plate during the punching cycle. The slip sheets are removed to a large waste bin that can hold thousands of sheets. The AP includes up to four high quality A2 tool steel punches. Each plate is registered via solid edge stops. Pushers quickly align and register to a tolerance of 0.025 mm (0.001"). The AP includes four M2 steel punches for exact punching and longevity.

The AP can punch and stack 400 plates per hour. Models can be ordered for singlewide plates only or to punch single and doublewide plates in one unit. There are loading and unloading options as well. The standard AP is a manual load and unload unit. Just a push of the Start button automatically initiates the registration and punch cycles. Pallet load options are available on all models. This allows the operator to load plates onto a trolley and pallet system. The trolley and pallet are loaded into the AP; which will punch and stack the finished plates to a second empty pallet and trolley. This allows for easy transportation of the plates to either a CtP engine or directly load them into Glunz & Jensen Plate Express 3 or Plate Express 6 exposure units. The AP Series Plate Punches are the standard of high-capacity, high-speed plate punches.

## Plate Deleafer (PDL 200)



Plate Deleafer 200 is designed to quickly and efficiently deleaf offset web production plates without damage. Ideal for use when switching from one CtP plate provider to another that does not use slip sheets. The PDL 200 is capable of deleafing 400 plates per hour and can be ordered to stack plates from a minimum to maximum width: 279 - 965 mm (11 - 38") (Please specify your plate sizes when ordering.) Plates are loaded and unloaded by hand with a 200 plate maximum capacity into the PDL 200. The PDL 200 safely removes the slip sheet between the plates and then neatly restacks the plates in another location. Interleaves are automatically blown out and placed in an external, removable deleafing bin. The PDL 200 is designed for high-volume metropolitan newspapers, the welded tubular frame provides stability, durability and reliability at high-speed plate production.

## Technical specifications

Material thickness	0.20 - 0.30 mm (0.008 - 0.012")
Electrical requirements	110 - 240VAC, 50/60 Hz, 1 amp, single phase
Pneumatic requirements	Air, 90 PSI (10 CFM) / 6.205mBar (283.17 LPM)

All equipment have these common specifications. Individual specifications listed below.

\* Indicates equipment that does not require electrical or pneumatic services.

\*\* Indicate equipment that needs pneumatic service only.

### PLATE PUNCHES

#### 2000 AP-200 Automatic Punch for Plates

**Material size:** Minimum to maximum width: 279 - 457 mm (11 - 18") • **Size (LxWxH):** 1050 x 2794 x 1245 mm (42 x 110 x 49") • **Weight:** 453.6 kg (1000 lbs)

#### 2005 AP-200-P Automatic Punch for Plates (includes output cart)

**Material size:** Minimum to maximum width: 279 - 457 mm (11 - 18") • **Size (LxWxH):** 1050 x 2794 x 1245 mm (42 x 110 x 49") • **Weight:** 544.3 kg (1200 lbs)

#### 2010 AP-200-Q Automatic Punch for Plates (includes output cart)

**Material size (WxL):** 406 x 1143 mm (16 x 45") or 812 x 1143 mm (32 x 45") • **Size (LxWxH):** 1702 x 3734 x 1245 mm (67 x 147 x 49") • **Weight:** 680.4 kg (1500 lbs)

#### 2015 AP-200-SP Automatic Punch for Plates (includes output cart)

**Material size (WxL):** 406 x 1143 mm (16 x 45") • **Size (LxWxH):** 2058 x 2692 x 1245 mm (81 x 106 x 49") • **Weight:** 680.4 kg (1500 lbs)

#### 2020 AP-200-SD Automatic Punch for Plates (includes output cart)

**Material size:** Minimum to maximum width: 279 - 965 mm (11 - 38") • **Size (LxWxH):** 1050 x 3429 x 1245 mm (42 x 135 x 49") • **Weight:** 544.3 kg (1200 lbs)

#### 2025 AP-1000 Automatic Punch for Plates

**Material size:** Minimum to maximum width: 279 - 457 mm (11 - 18") • **Size (LxWxH):** 2057 x 4216 x 1245 mm (81 x 166 x 49") (length includes deleafer bin) • **Weight:** 680.4 kg (1500 lbs)

#### 2030 AP-1000-SD Automatic Punch for Plates

**Material size:** Minimum to maximum width: 279 - 965 mm (11 - 38") • **Size (LxWxH):** 3073 x 1295 x 1245 mm (121 x 51 x 49") • **Weight:** 680.4 kg (1500 lbs)

#### 2035\* DP Doublewide Punch for Plates\*

**Material size:** Minimum to maximum width: 279 - 965 mm (11 - 38") • **Size (LxW):** 1219 x 610 mm (48 x 24") • **Weight:** 129.7 kg (286 lbs)

#### 2040\*\* DPP Doublewide Power Punch for Plates\*\*

**Material size:** Minimum to maximum width: 559 - 914 mm (11 - 36") • **Size (LxWxH):** 965 x 864 x 991 mm (38 x 34 x 39") • **Weight:** 138 kg (304 lbs)

#### 2045 DPPC Doublewide Power Punch with Contact Registration 2045-5450 Manufactured for 54"/50" web

**Material size:** Minimum to maximum width: 559 - 914 mm (11 - 36") • **Size (LxWxH):** 965 x 864 x 991 mm (38 x 34 x 39") • **Weight:** 138 kg (304 lbs)

#### 2050 DPPC-Q Doublewide Power Punch with Contact Registration

**Material size (WxL):** 406 x 1143 mm (16 x 45") or 812 x 1143 mm (32 x 45") • **Size (LxWxH):** 965 x 1448 x 991 mm (38 x 57 x 39") • **Weight:** 160.5 kg (354 lbs)

#### 2055 DPPC-T Doublewide Plate Punch with Contact Registration - Tabletop

**Material size:** Minimum to maximum width: 559 - 914 mm (11 - 36") **Size (LxW):** 965 x 864 mm (38 x 34")

#### 2060 DPPV Doublewide Plate Punch with Vision

**Material size:** Minimum to maximum width: 559 - 914 mm (11 - 36") **Size (LxWxH):** 965 x 864 x 991 mm (38 x 34 x 39") **Weight:** 159 kg (350 lbs)

### MANUAL & SEMI-AUTO BENDERS & PUNCH BENDERS

#### 3010 PB-27 Power Bender for 27 inch Plates

**Material size:** Minimum to maximum width: 279 - 685.8 mm (11 - 27") • **Size (LxWxH):** 1016 x 1118 x 1245 mm (40 x 44 x 49") • **Weight:** 612.4 kg (1350 lbs)

#### 3015 PB-38 Power Bender for 38 inch Plates

**Material size:** Minimum to maximum width: 279 - 965 mm (11 - 38") • **Size (LxWxH):** 1016 x 1118 x 1245 mm (40 x 44 x 49") • **Weight:** 612.4 kg (1350 lbs)

#### 3017 EPB-27 Edge Punch Bender for 27 inch Plates

**Material size:** Minimum to maximum width: 279 - 685.8 mm (11 - 27") • **Size (LxWxH):** 1016 x 1118 x 1245 mm (40 x 44 x 49") • **Weight:** 612.4 kg (1350 lbs)

#### 3018 EPB-38 Edge Punch Bender for 38 inch Plates

**Material size:** Minimum to maximum width: 279 - 965 mm (11 - 38") • **Size (LxWxH):** 1016 x 1118 x 1245 mm (40 x 44 x 49") • **Weight:** 612.4 kg (1350 lbs)

#### 3020 SAB-27 Semi-Automatic Bender

**Material size:** Minimum to maximum width: 279 - 685.8 mm (11 - 27") • **Size (LxWxH):** 838 x 914 x 1245 mm (33 x 36 x 49") • **Weight:** 340.2 kg (750 lbs)

#### 3025 SAB-38 Semi-Automatic Bender

**Material size:** Minimum to maximum width: 279 - 965 mm (11 - 38") • **Size (LxWxH):** 1092 x 914 x 1245 mm (43 x 36 x 49") • **Weight:** 363 kg (800 lbs)

#### 3027 SPB Shear Punch Bender

**Material size:** Minimum to maximum width: 279 - 965 mm (11 - 38") **Size (LxWxH):** 1016 x 1118 x 1245 mm (40 x 44 x 49") **Weight:** 635 kg (1400 lbs)

Standard configurations may vary in the market. Specifications are subject to changes without prior notice.



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