

Young Shin Die Cutters - Since 1980

Young Shin, a South Korean manufacturer, has been producing and exporting Die Cutters for 40-years. With production facilities throughout Korea, wholly owned subsidiaries in the United States and Europe, and more than 100 installations throughout North America and 1,500 worldwide, Young Shin has become a growing presence in the Folded Carton, and Corrugated industries.

How Do We Stack Up?

Overall engineering design, materials and manufacturing precision is **equal to** or **better than** all top selling brands. With comparable production speeds, job quality & performance reliability, while total **cost of ownership is significantly less**.

The quality and durability of Young Shin high grade steel and weldment process for the upper bolster, platen, and machine framing, far surpasses the cast iron and "Atmospheric Aging" processes used to relieve stress in cast components. The result is a much **greater structural strength** and flatness of surfaces, affecting cutting accuracy. Therefore, also reducing make-ready time preparing spot sheets.

Young Shin does not try to build "racehorses" because there are few users worldwide who can afford to buy and/or benefit from higher speed than our Die Cutters perform. Nearly all Young Shin Die Cutters ever built are still running daily production.

Young Shin 106SB Design

- ✓ Tsubaki (Japan) & Reynolds (Europe) chains
- ✓ Siemens, Omron, SEW electronics
- ✓ UL certified wiring, electrical components
- ✓ Off-the-shelf, non-proprietary parts for easy, low cost maintenance
- ✓ Centerline System
- ✓ Legacy dies are compatible

Makeready Process, Step-by-Step

Step 1 – Remove previous job tooling from press and back off cutting pressure. Set side-guide into approximate position using a sheet from the new job. **(About 10 minutes)**

Step 2 – Insert die into the chase using the Centerline position block and secure with the pneumatic Quick-Lock quins. Flip chase over, place spot sheet in position, insert protection plate, push chase into press and lock in position. Place a 1mm Thin Plate onto the 4mm cutting plate and secure with 4 screws, then lock chase

and cutting tablet in press. **(5 minutes)**

Step 3 – If the die is new, the scoring counterplate is prepared next. The time required varies if using scoring matrix (takes longer) versus phenolic counters but typically is achieved within **(15 - 30 minutes)**. Setting up repeat jobs using an existing cutting plate takes less time.

Step 4 – Install bottom stripping board into approximate position and loosely secure in press. Run one sheet from feedboard into the stripping station, stop and remove sheet from press. Look at cutting depth and registration to print image, then adjust cutting pressure and feed board (side guide & headstops) as required and repeat the process until cutting is about 50% or until possible to adjust position of the bottom stripping board to fit the die cutting on the sheet. **(About 15 minutes depending on job complexity)**

Continue improving the cutting by patching up the spot sheet and work on nicking as needed to assure the sheet doesn't break apart in the stripping station. When cutting is 100%, check position of the bottom stripping board, then position the top stripping tool & secure in place. Run a few sheets to check stripping and determine if any bottom stripping pins are required, and take appropriate action. Refine the makeready until your quality standards are achieved. **(Typically, about 30 - 90 minutes depending on job complexity and if job has run before)**

***Note:** We state the amount of cutting should be about 50% when beginning work on the spot sheet to help prevent dulling of the cutting knife. The object of the spot sheet is to add pressure to areas not cutting to "balance" the localized pressures so the knives cut precisely to the cutting plate surface over the entire knife area to prevent production of paper slivers & dust in the diecut load.*

Step 5 – Put bottom Blanking tool in the press and secure lightly, then run a sheet from the feeder to the Blanking station and stop. Adjust lower Blanking tool position to fit the Die Cut & Stripped sheet, then lower the top Blanking tool into position and adjust position if needed to fit the Die Cut sheet and bottom Blanking tool.

Then setup the tie-sheet rake to fit the lower Blanking tool pile guides and properly supports the blanks. Then test run some sheets. Load the drawer with tie sheets and test the entire press setup. **(This step should take about 15 - 20 minutes depending on job complexity)**



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