

NEW STAMPING PRESS TECHNOLOGY DOUBLE POINT TIE ROD PRESSES FROM 121-1000 TON



Stamping press technology continues to evolve at SUTHERLAND & KC presses. Our SP2-440 ton double point bed assembly (below) is a prime example of what you can expect when your new press arrives.



You are viewing the rear side of the bed / base which house our automatic lubrication system, tank, pumps and filters. Multiple piece tie rod construction are easy to align and assemble with our round tapered stack up alignment keys.

Rigidity is designed into every SP2 & EHW press for minimal deflection under stamping loads. Each press comes with Autocad, 3D Solid Works and JIS / Japanese Industrial Standards tolerance inspection documents.

Four corner uprights will be mounted on each corner of bed and allow the tie rods to go through from bottom of bed, uprights, crown. The tie rods are then cold stretched with a hydraulic jack for uniform press to secure frame members at 200% of press capacity tonnage.



Once uprights are installed the next step is slide assembly installation. Note: all SP2 & EHW presses have eight (8) point taper wedge full length slide guidance systems.

Taper wedge is more expensive to machine but makes gib adjustment down the road much easier to reset press slide accuracy.

The crown / top of press (below) is then aligned and stacked on top of uprights and slide assembly. We have refined this process so a tie rod press can be stacked and tie rods tightened in 4 days or less.



Our crown houses our gear train drive system that runs in self contained oil bath. Each crown is designed for each of access for maintenance. The SP2-440 ton crown below shows the (rear view) where flywheel, clutch brake, flywheel brake, Ross DSV valve, air tanks are mounted. Once install is completed a safety platform with access ladder are attached for ease of maintenance. (below)



Rear Safety platform with caged access ladder make press drive maintenance accessible and easy to work on.

We incorporate the highest grade long lasting components that are rated for industrial use and press safety. The photo (left) shows our air systems to control press clutch & brake activation or slide motion. We use SMC brand FRL's, filters, regulators & lubricators. The safest clutch activation DSV / Dual Safety valve is the Ross DM Series valve. A unique feature is that it is base plate mounted where all air line connections go into base allow valve maintenance without interfering with air plumbing connections.



I - PRESS AB

PLUS press & automation control is standard with other options available including Wintriss Controls.

Notice the 10" Color Panel View operator interface which is showing our main run screen. This dashboard layout shows press position, speed, modes of operation, clutch brake performance, tonnage, counters and mode. The "I-PRESS Green Navigation" button at upper left allows easy navigation to all screens of operation. By far and away the easiest press control to learn and operate.

Our MEP / Main Electrical Panel meets or exceeds safety standards. High voltage motor starters are located on the top row. Top right is our connection for enterprise connected device allowing the press to be monitored from any remote device including mobile phones and I-Pads.

The second and third row from the top are our dual PLC & solid state safety relay which are cross checking each other. The two bottom rows are another area where we offer more, pre-wired field accessible "Feature Sets" include:



- 12 Nameable Programmable Cams
- 16 Die Monitoring Circuits
- Tonnage Monitor with High & Low Limit settings by Job
- Single & Continuous on Demand all press to be slave to automation
- Job Memory & Job Library can be programmed while press is running
- Faults & Fault Diagnostics & I/O indicator screens & more....

We offer the very best in service and financing, we can run the complete project from applications review to production ready.

Call your PRI Applications Engineer for more information or a quote.