



Presses & Automation SINCE 1975



**AZ-S2**  
**Double point straight side**



## AZ-S2

Single Point GAP PRESS

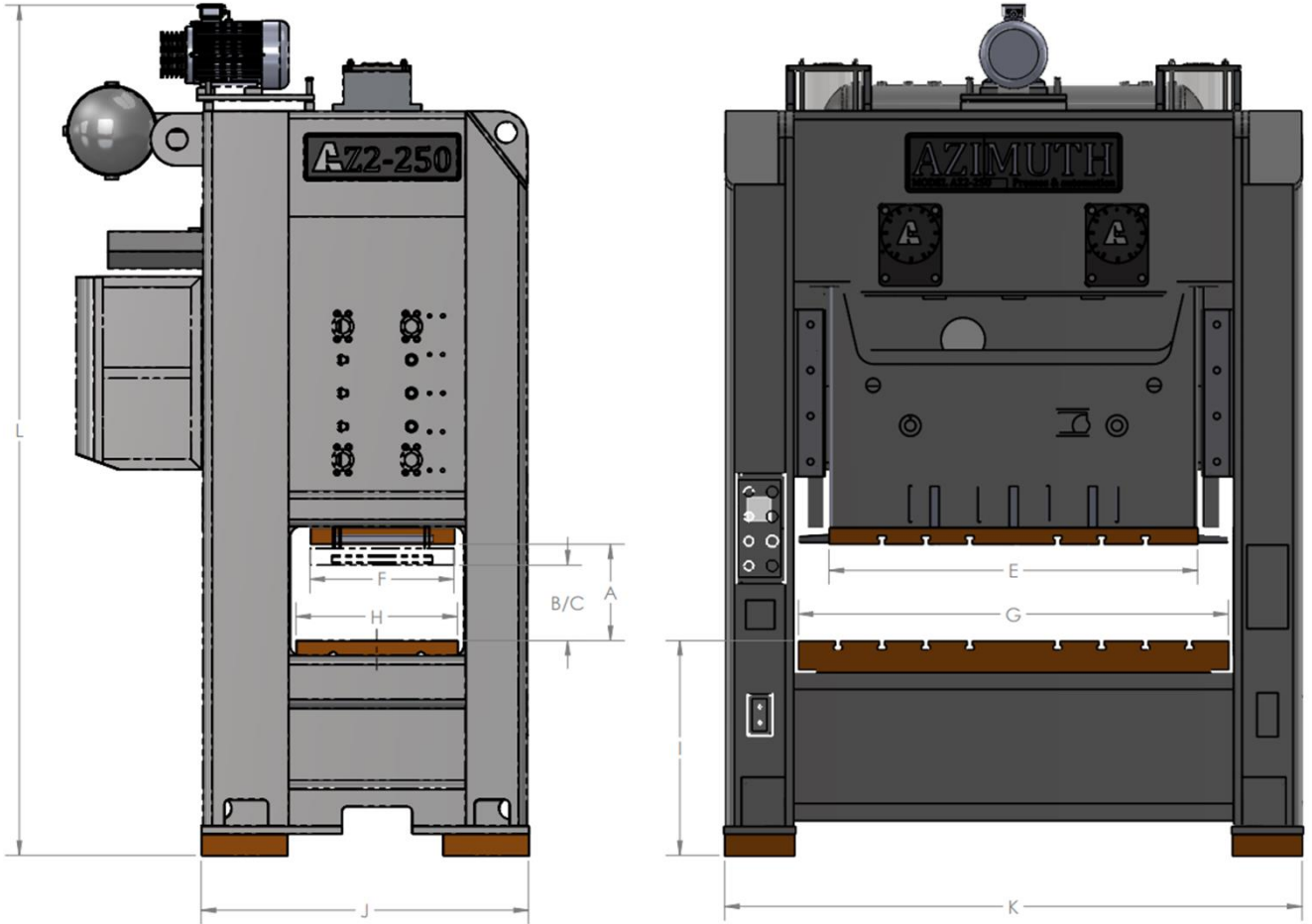


- Motorized Shut height Adjustment with digital display
- Several controller options
- OMPI Air-Clutch unit (wet clutch as optional features)
- Ross Dual safety Valve
- Air lock-out
- Showa Seiki Fast acting Hydraulic Overload
- ABB Variable Speed drive optional
- UL Certified control panel (MEETS OSHA & CSA Regulations)
- Automatic Greasing system (automatic oiling system optional)



# Azimuth press

## Model AZS2

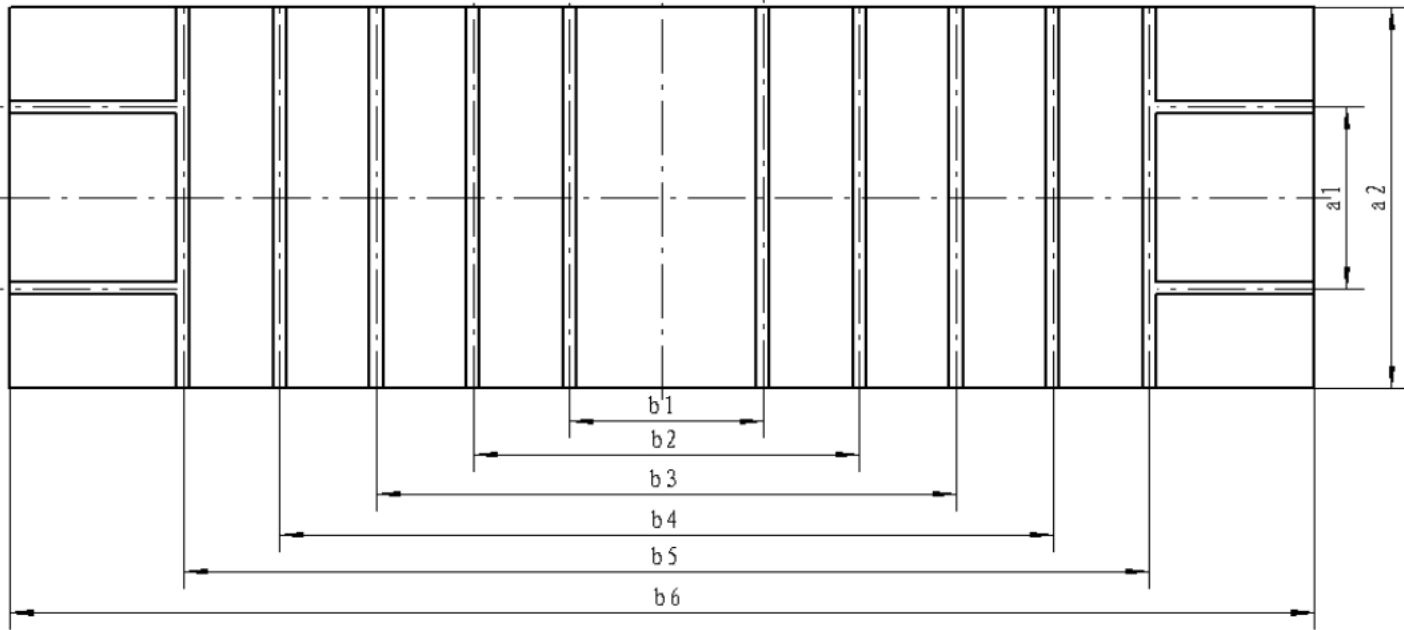


PARAMETERS	DIMENSIONS	Unit	AZS2-110	AZS2-160	AZS2-200	AZS2-250	AZS2-315	AZS2-400	AZS2-500
Nominal Capacity		Tons	112	163	204	255	321	408	510
Nominal Stroke		in	0.197	0.236	0.276	0.315	0.315	0.394	0.394
Slide Stroke	A	in	7.087	7.874	9.843	11.024	11.811	11.811	11.811
SPM	Variable	SPM	30-60	25-50	25-50	20-40	20-40	20-30	20-30
Max. Die Set	B	in	15.748	17.717	19.685	21.654	23.622	23.622	25.591
Die Height		in	3.543	3.937	4.331	4.724	4.724	4.724	4.724
Min. Die Height	C	in	12.205	13.780	15.354	16.929	18.898	18.898	20.866
Throat Depth	D	in							
Distance between Uprights		in	68.898	77.559	90.551	98.425	102.362	110.236	118.110
Ram Size	F x B	E	22.835	25.984	29.134	32.283	35.433	39.370	43.307
	L x R	F	53.543	62.205	74.803	82.677	86.614	98.425	102.362
Bolster Size	F x B	G	26.772	29.921	33.071	36.220	39.370	43.307	47.244
	L x R	H	64.961	75.591	88.583	96.457	98.425	106.299	114.173
Bolster surface	I	in							
Overall Size	F x B	J	80.709	94.488	104.331	114.173	118.110	124.016	133.858
	L x R	K	89.370	104.331	124.016	135.827	115.354	148.031	181.102
	H	L	149.606	160.236	168.504	188.976	200.394	215.748	223.425
Motor Power		hp	14.8	20.1	24.8	29.5	40.2	49.6	60.3
Weight		lbs	39683	58202	77162	93696	100310	1322772	175378



# AZ-S2

## Straight side double point – Bolster plate dimensions



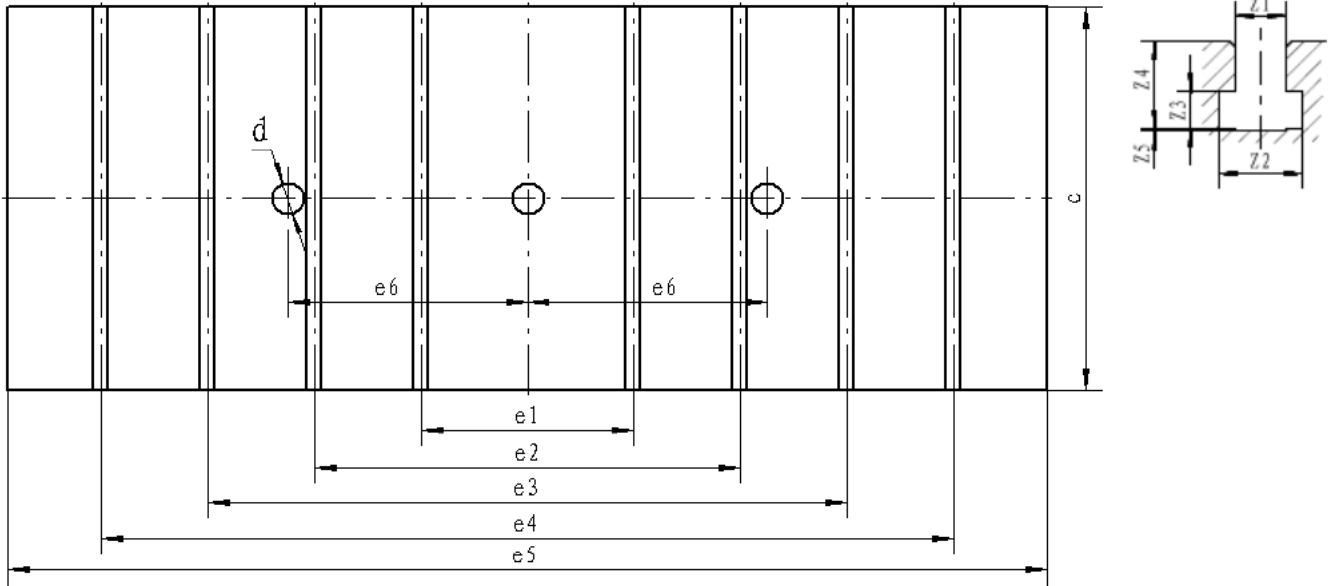
	AZ-S2-120	AZ-S2-175	AZ-S2-220	AZ-S2-250	AZ-S2-340	AZ-S2-440	AZ-S2-560
A1	0	0	0	0	15.75	19.625	19.625
A2	26.75	29.875	33.125	36.25	39.375	43.25	47.25
A3	5.875	3.875	4.375	3.875	3.875	3.875	3.875
A4	5.5	5.125	7.875	7.875	8.625	9.875	11.75
B1	7.875	15.75	15.75	19.625	9.875	9.875	11.75
B2	23.625	31.5	31.5	39.375	29.5	29.5	35.375
B3	39.375	47.25	47.25	59	49.25	49.25	59
B4	55.125	63	63	78.75	68.875	68.875	82.625
B5	0	0	78.75	0	0	0	0
B6	65	75.625	88.625	96.5	98.375	106.25	114.125





# AZ-S2

## Straight side double point – RAM dimensions



	AZ-S2-120	AZ-S2-175	AZ-S2-220	AZ-S2-250	AZ-S2-340	AZ-S2-440	AZ-S2-560
C	22.875	26	29.125	32.25	35.375	39.375	43.25
D	2.375	2.375	2.375	2.375	2.75	2.75	3.125
E1	7.875	15.75	15.75	19.625	9.875	9.875	11.75
E2	23.625	31.5	31.5	39.375	29.5	29.5	35.375
E3	39.375	47.25	47.25	59	49.25	49.25	59
E4	0	0	63	0	68.875	68.875	82.625
E5	53.5	62.25	74.75	82.625	86.625	98.375	102.375
E6	13	14.75	17.75	17.75	17.75	19.625	19.625
N1	2	4	3	4	4	4	4
N2	3	5	4	7	7	7	7
Z1	0.875	1.125	1.125	1.125	1.125	1.125	1.125
Z2	1.5	1.875	1.875	1.875	1.875	1.875	1.875
Z3	0.625	0.875	0.875	0.875	0.875	0.875	0.875
Z4	1.5	1.875	1.875	1.875	1.875	1.875	1.875
Z5	0.04	0.04	0.04	0.04	0.04	0.04	0.04





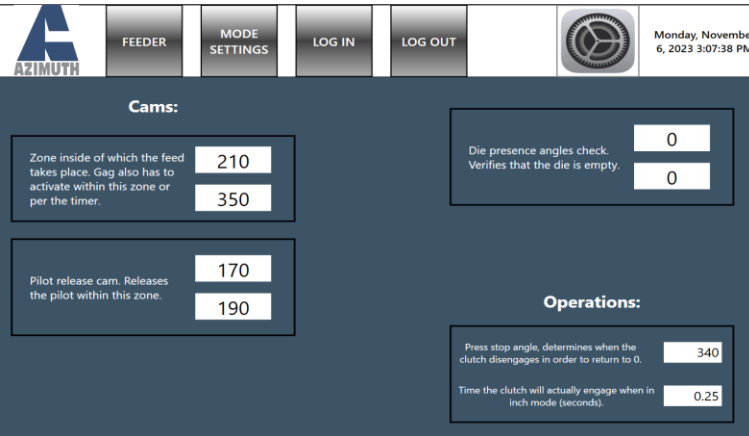
## AZIMUTH'S PRESS CONTROL – PLC BASED CONTROLLER

Azimuth' PLC BASED CONTROLLER features a large color touch screen, advanced communications, with 4.0 capabilities.



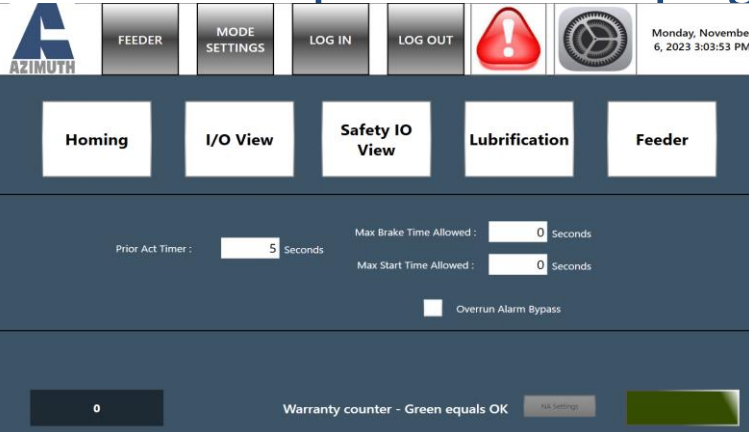
- Large vibrant touch screen gives you access to multiples job selection screen, safety inputs, die protections programming & more
- Multiples user inputs, 8 die protections & 8 Programmable CAM switch with job recognition
- Automatic speed adjustment of the press to every job
- Every traditional mode of operation : Inch, single, continuous & more

## Programmable relay



- Channels can be turned on and off up to 4 times per stroke for applications like spray lube systems that require multiple timing signals
- Channels can be turned on with the DSV, and turned off a pre-set time after the press stops for controlling equipment like conveyors that only need to run while the press is running
- Global cams allow you to set press-related functions once for all tools

## Advanced parameters page



- Lube control for greasing system
- I/O allows you to easily troubleshoot the system
- Easily reset the resolver HOMING
- Optional feeder page when bought with Azimuth Servo feeder



## AZIMUTH'S PRESS CONTROL – WPC2000 standard controller

Azimuth part-revolution presses interface with the Wintriss WPC2000 part-revolution controller. This controller is designed & built to comply with the CSA Z142, OSHA 29CFR 1910.217 & ANSI B11.1 & B11.19. The WPC2000 is an economic, full-featured & user-friendly dual-microprocessor system. **\*\*\*The customer is aware by buying this machine without guarding, he takes full responsibility of the machine's safety\*\*\***



### Mode of operations

- Off
- Two hands inch
- Two-hands single
- Foot single stroke (requires light curtain)
- Two-hand continuous
- Continuous on demand (optional)
- Automatic single stroke

### Main features

- 9 Customized status codes (including 2 cross-checked pairs) installed by user
- Micro-inch capability improves set-up
- Self-diagnostics identifies control problems
- Optional 4-Output Programmable Limit Switch to control timing of ancillary equipment
- Optional Auto-compensated Top Stop (ACTS) adjusts the top-stop angle automatically as press speed changes or the brake wears.
- Forward/reverse key selector switch for motor
- Optional Auxiliary E-Stop Relay Outputs for stopping or preventing from starting up to three auxiliary devices like a feed or a transfer if any e-stop button is pressed, any light curtain is interrupted, or any cross-checked input is open





## AZIMUTH'S PRESS CONTROL - OPTIONAL SMART PAC PRO

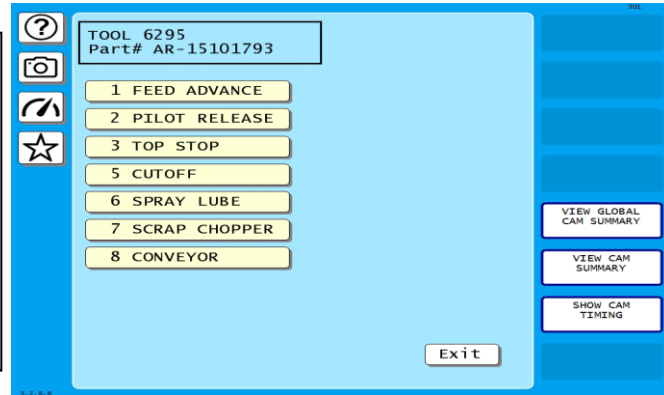
Azimuth' *Smart PAC PRO press control* features a large color touch screen, advanced communications, superior graphics and numerous performance enhancements.



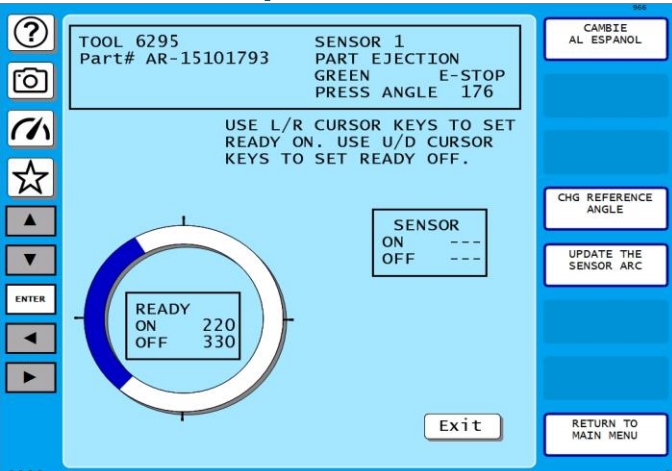
- Large vibrant touch screen gives you access to multiples job selection screen, safety inputs, die protections programming & more
- Multiples user inputs, 8 die protections & 8 Programmable CAM switch with job recognition
- Up to 300 JOB storage with videos & pictures for set-up, drawings & more.
- Scanner interface allows operators to scan die & automatically set dies parameter
- Automatic speed adjustment of the press to every job
- Tonnage monitor interface (optional)
- Every traditional mode of operation : Inch, single, continuous & more

- Channels can be turned on and off up to 4 times per stroke for applications like spray lube systems that require multiple timing signals
- Channels can be turned on with the DSV, and turned off a pre-set time after the press stops for controlling equipment like conveyors that only need to run while the press is running
- Global cams allow you to set press-related functions once for all tools
- Allows on-the-fly adjustment

## Programmable relay



## Die protections



- 8 or 16, or 32 programmable sensor inputs
- Allows "on-the-fly" adjustments
- Sensor actuation signals shown on screen
- Individual stop selection for each sensor (emergency or top stop)
- LCD circle diagram represents press stroke for ease of programming
- Individual "ready" signals for each sensor
- Ability to custom-name sensors for easy identification
- Die-protection error diagnostics

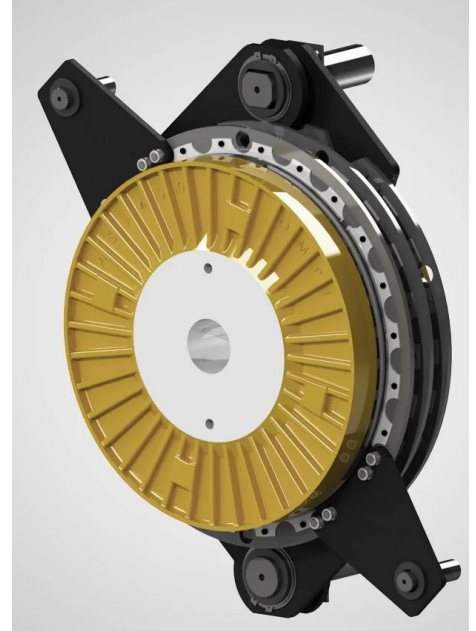




## OMPI Air-friction Clutch

Azimuth uses OMPI air-friction clutch on every AZ models.

OMPI develops, certifies and distributes press-fit and torque and power adjustment devices worldwide. Our brake/clutch units are designed for presses and drive units, equipped with flywheel and reduction gearbox, and rotary unions for clutches.

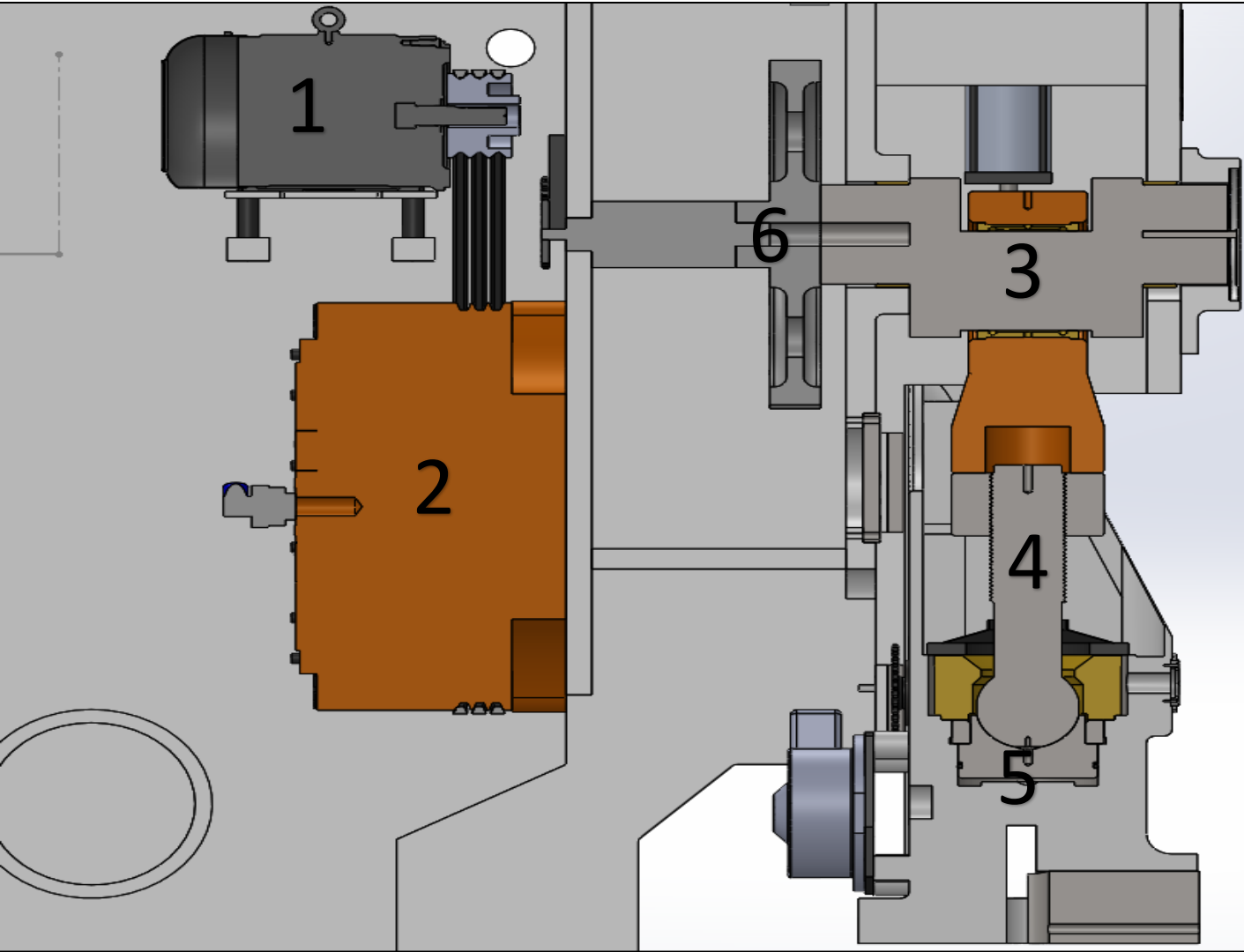


## Hydraulic overload protection



Fast acting hydraulic overload pump (H.O.L.P) prevents hydraulic overload due to a bad set-up or during parts stacking. Adjusted in our facility with our precision load-cell, the hydraulic overload is tested several times prior shipment to prevent any bad application.

## Main drive-train



Main motor  
 OMPI Air-FRICTION CLUTCH  
 Crankshaft  
 Connecting rod-Ball screw  
 Ball-seat – Fast acting overload system  
 Main Gearbox

The main drive train consists of a main motor driving the flywheel inertia/wet-clutch. When actuating the main dual-safety valve (DSV) from the press control, Air is sent through the main clutch shaft & therefore, engage the lining to the rotating flywheel.

The press is equipped with a gearbox immersed in oil with grounded.

Forged crankshaft from high strength steel assures longevity of the machine.



## *Azimuth turnkey solution*

We specialized in complete turnkey press line solution & design, which allows our customer to provide us complete contract in integrating their press solution. We supply & manufacture;

**Presses**

**Tooling**

**Custom controller solution**

**Feed-line**

**Safety integration**





## Warranty Plan on AZ models

3

### *Years on air-clutch & electrical components*

Azimuth machinery warrants to the original purchaser, to repair or, at AZIMUTH MACHINERY'S sole option, replace any major frame, crown, bed, upright or slide (machine casting or weldment), Air-clutch, seals & ALL Electrical components (greaser, oiler, motor, main controller, press encoder) after examination by AZIMUTH MACHINERY's properly authorized representative, to be defective in material or workmanship under normal use within three years or, if sooner, **6,000 hours** of running time after the original date of shipment from the AZIMUTH MACHINERY plant.

*Does not include labor<sup>[1]</sup> or diagnostic work. The original purchaser will be responsible for travel costs and expenses.*

2

### *Years mechanical parts warranty*

Azimuth machinery warrants to the original purchaser, to repair or, at AZIMUTH MACHINERY'S sole option, replace any parts that are found defective( Ballscrew, pitman(s),crankshaft(s), slide, GIBS, RAM) after examination by AZIMUTH MACHINERY's properly authorized representative, to be defective in material or workmanship under normal use within three years or, if sooner, **4,000 hours** of running time after the original date of shipment from the AZIMUTH MACHINERY plant.

*Does not include labor or diagnostic work. The original purchaser will be responsible for travel costs and expenses.*

1

### *Year on Hydraulic, pneumatic components & labour.*

Azimuth machinery warrants to the original purchaser, to repair or, at AZIMUTH MACHINERY'S sole option, replace any parts that are found defective(hydraulic clampers (if furnished), hydraulic components, motors, air-counter balance & all others air components & hydraulic components) after examination by AZIMUTH MACHINERY's properly authorized representative, to be defective in material or workmanship under normal use within three years or, if sooner, **3,000 hours** of running time after the original date of shipment from the AZIMUTH MACHINERY plant.

**Labour time warranty shall be under Azimuth Sole discretion. If any Workmanship is required due to improper functioning of the press &/or other related equipment, Azimuth will cover the workmanship repair cost. Travelling fees, lodging & other travelling expense are not included.**



