Willliams & White 600 Ton Press
SECTION A

CAPACITIES, DIMENSIONS & SPEEDS

	600 TON
Capacity (US Tons)	
Pressing	60 – 600
Stripping (gross)	20
Net Lift @ Fast Open	10
Net Lift @ Die Setup	20
Bed Cushion	20 – 200
Bed Cushion Reset/Eject	20
Dimensions (Inches)	
Daylight (between face of slide and bed bolster)	44
Stroke	36
Shut Height	8
Die Space (right to left x front to back)	144 x 72
Distance Between Housings (right to left x front to back)	146 x 76
Bed Cushion Pad (right to left x front to back)	66 x 50
Bed Cushion Stroke	8
Floor To Face Of Bed	38
Maximum Depth Below Floor (approximate)	42
Maximum Overall Height (approximate)	300
Operating Speeds (Inches per Minute)	
Fast Close	1000
Pressing	6 – 65
Stripping	35 – 350
Fast Open	700
Bed Cushion Reset/Eject	25 – 250

SECTION B

MECHANICAL SPECIFICATIONS

600 TON

Frame

Type ----------Pre-stressed tie rod “H” frame housing type

Construction ----------Frame components are thermally stress relieved welded structures utilizing A-36 steel plate

Design ----------Internally designed and analyzed for infinite life utilizing “Pro Engineer” finite element analysis software

Press Mounting ----------Vibro Dynamic micro level isolators

Tie Rods

Pre-stress Style ----------Hydraulic nuts (hand pump included)

Pre-stress Level ----------130% above maximum rated press capacity

Guiding System

Style ----------8-point square

Material ----------Jalloy/Graphite phenolic

Lubrication ----------Trabon automatic grease lubrication

Bed Deflection ----------.002 inches per foot
(based on combined bending & shear with full tonnage evenly distributed over 2/3 die area)

Tool Mounting (face of bed bolster) ----------(1) 1” wide by 5/8” deep die locating slot running right to left on the press centerline

Tool Mounting (face of bed bolster & slide)

Quantity, Type & Size ----------(36) 1” "T" slots

Direction----------Running front to back

Location ----------4” centers right to left starting 2” off each side of press center

Bed Cushion Pad

Face Plate ----------Renewable hardened steel

Guide Style/Material ----------(4) round columns with 360º brass bushing on each column

Lubrication ----------Trabon automatic grease lubrication

SECTION B

MECHANICAL SPECIFICATIONS
(continued)

600 TON

Pressure Pin Holes (bed bolster)

Quantity & Size ----------(221) 1-3/16” diameter

Location ----------4” square pin hole pattern on the front to back and right to left center lines starting at press center

Mechanical Die Space Guarding

Quantity & Type ----------(2) electrically interlocked hinged wire mesh gates

Location ----------(1) right side between press housings
(1) left side between press housings

Pneumatic Quick Disconnects ----------Total of (5) 1/4” NPT pneumatic quick disconnects are provided. (1) quick disconnect is located on each of the (4) the press housings and (1) is located prior to the L-O-X valve and equipped with a lockable bleed valve.

Slide Locks ----------Full stroke, 4” incremental mechanical interference type

SECTION C

HYDRAULIC SPECIFICATIONS

600 TON

Main Cylinder

Quantity, Size & Type ----------	(1) 22-1/2” diameter single acting
Location ----------	Mounted in press crown
Working Pressure ----------	3018 PSI

Pullback Cylinders

Quantity, Size & Type ----------	(2) 7-1/4” x 5-1/2” single acting
Location ----------	Mounted in press crown

Bed Cushion Cylinder

Quantity, Size & Type ----------	(1) 13” x 8” diameter double acting
Location ----------	Mounted in press bed
Working Pressure @ 200 Tons -----	3013 PSI

Main Oil Reservoir

Location ----------	Overhead
Air Filtration ----------	10 micron
Features ----------	Floor level fill/drain Oil level/temperature sight gage Particulate magnets Drip tray Access covers Shock mounted motor Hose connections on pumps
Service Platform ----------	Fully enclosed around hydraulic power unit with sound insulating panels with access ladder

Press Drive Pump

Quantity & Type ----------	(1) Rexroth axial piston #A4VSO355
Control ----------	Electronic volume control

SECTION C

HYDRAULIC SPECIFICATIONS
(continued)

600 TON

Bed Cushion Drive Pump

Quantity & Type ----------	(1) Rexroth axial piston #A4VSO180
Control ----------	Electric volume control

Auxiliary Pump

Quantity & Type ----------	(1) Denison double vane #T6CC
Pre-fill Valve ----------	(1) Olmsted #PRT-0708 (in-tank)
Press Tonnage Control ----------	Electronic (Vickers EHST)
Bed Cushion Tonnage Control --------	Electronic (Vickers EHST)
Oil Cooling System ----------	Water/oil cooling system complete with water inlet strainer, on-off solenoid operated water inlet control valve, inlet and outlet water temperature gages, water flow meter and stainless steel plate type heat exchanger
Oil Filtration System ----------	Dedicated vane pump cartridge for continuous off line 3 micron kidney loop filtration with separate 3 micron filtration of pump pilot supply
Hydraulic Component Usage ----------	Rexroth/Vickers
Main Control Valves ----------	Two-way poppet style manifold mounted DIN standard cartridge valves
Pilot Control Valves ----------	Solenoid operated furnished with DIN plug in style power connections with indicator lights
Pipe Connections ----------	SAE 4-bolt butt-weld flanges with “O” rings serve as end connections for all pressure piping
Tube Connections ----------	Parker seal-lok fittings with Parker SAE straight thread “O” ring fittings used on all port connections
Diagnostic Fittings ----------	Stauff TCM series