

Kaushico

AN ISO 9001:2000 COMPANY



Double Sided, Double Column, 4 Piece Construction,
Single point/ Two point/ Four point Suspension Crankless Presses
(KCL/ KHCL - Series)

'KHCL-1' (Single point suspension, One piece construction) and
'KCL-1' (Single point suspension, Four piece construction)

SPECIFICATIONS MODEL

'KCL-2' (Two point suspension, Four piece construction)



Model	KCL-2-250	KCL-2-315	KCL-2-400	KCL-2-500	KCL-2-630	KCL-2-800	KCL-2-1000
Capacity (Tonne)	250	315	400	500	630	800	1000
BDC limit (mm)	8	8	13	13	13	13	13
Stroke fixed (mm)	300	300	450	450	450	500	550
Stroke per min (spm)	12	12	10	10	10	10	10
Shut height over bolster (mm) (Standard) (Optional)	850	850	850	850	850 1100	850 1100	850 1100
Slide adjustment Motorized (mm)	300	300	350	350	350	350	350
Slide face LRxFB (mm) (Standard) (Optional)	1800x1300 2500x1500	1800x1300 2200x1300 2500x1500	1800x1300 2500x1500 3000x1500	2500x1500 3000x1500	2500x1500 3000x1500	2500x1500 3000x1500	2500x1500 3000x1500
Size of bolster LRxFB (mm) (Standard) (Optional)	1800x1300 2500x1500	1800x1300 2200x1300 2500x1500	1800x1300 2500x1500 3000x1500	2500x1500 3000x1500	2500x1500 3000x1500	2500x1500 3000x1500	2500x1500 3000x1500
Bolster thickness (mm)	175	190	220	220	240	250	260
Height of bolster surface from floor(mm)	800	800	800	800	800	800	800
Main motor (kw/rpm)	30/1500	37/1500	45/1500	55/1500	55/1500	75/1500	90/1500
Slide adjustment motor (kw/rpm)	2.2/1500	3.7/1500	3.7/1500	5.5/1500	5.5/1500	7.5/1500	7.5/1500
Die cushion capacity at 7.3 kg/cm ²	35	50	80	95	120	150	180
Stroke of cushion (mm)	200	200	200	200	200	250	250
Air pressure required for clutch (kg/cm ²)	5.5	5.5	5.5	5.5	5.5	5.5	5.5

SPECIFICATIONS MODEL

'KCL-4' (Four point suspension, Four piece construction)



Model	KCL-4-315	KCL-4-400	KCL-4-500	KCL-4-630	KCL-4-800	KCL-4-1000	KCL-4-1200
Capacity (Tonne)	315	400	500	630	800	1000	1200
BDC limit (mm)	8	13	13	13	13	13	13
Stroke fixed (mm)	500	600	700	700	700	700	700
Stroke per min (spm)	12	10	10	10	10	10	10
Shut height over bolster (mm)	1000	1100	1100	1100	1100	1100	1100
Slide adjustment Motorized (mm)	350	350	350	350	350	350	350
Slide face LRxFB (mm) (Standard) (Optional)	3000x1800	3100x2000	3100x2000	3100x2000	3100x2000 4000x2400	3100x2000 4000x2400	3100x2000 4000x2400
Size of bolster LRxFB (mm) (Standard) (Optional)	3000x1800	3100x2000	3100x2000	3100x2000	3100x2000 4000x2400	3100x2000 4000x2400	3100x2000 4000x2400
Bolster thickness (mm)	190	220	220	220	250	260	260
Height of bolster surface from floor(mm)	800	800	800	800	800	800	800
Main motor (kw/rpm)	37/1500	45/1500	55/1500	55/1500	75/1500	90/1500	110/1500
Slide adjustment motor (kw/rpm)	3.7/1500	3.7/1500	5.5/1500	5.5/1500	7.5/1500	7.5/1500	11/1500
Die cushion capacity at 7.3 kg/cm ²	50	80	95	120	150	180	220
Stroke of cushion (mm)	200	200	200	200	250	250	250
Air pressure required for clutch (kg/cm ²)	5.5	5.5	5.5	5.5	5.5	5.5	5.5

Main features of the Press

- **Flame cut & welded steel plate** construction which is CAD optimized for rigidity, resulting in very low stress levels and therefore causing minimum distortion in the press.
- The frames and slides are **stress relieved** either in a furnace or through vibration stress relieve process. All steel castings and forgings are annealed and are ultrasonically checked for cracks. All steel plates are confirming to 15-2062 Gr-B.
- **Slide** is a box type construction with **eight point extra long gibs** fitted with phosphorus bronze liners to maintain parallelism with the bolster at all times. All 8 guides in the slide are fully adjustable.
- Transmission is through **Single/Double back gears with steel cast eccentrics**. Clutch is pneumatically operated combined "**Pneumatic Clutch & Brake unit**". The brake is automatically applied when the clutch is released.

Main features of the Press

- Suitable **Counter Balancers with Pressure Switches** are provided as standard for smooth running of the press and to compensate the weight of the top tool.
- **'Hydraulic Overload' safety device** is provided as standard which prevents overloading of the press & hence protects the press & tools. Resetting of the press takes less than a minute.
- **Forced re-circulating motorized** automatic lubrication pump is provided. The pump continuously feeds clean & filtered oil to all required parts of the press.
- Pneumatically operated **Die Cushion** with pressure switches are provided for better forming of deep draw components.
- PLC controlled **electric panel** is provided. **All press safeties are inter-locked through PLC** and gets highlighted in case of an emergency. All press functions are also through PLC.

Optional Equipments

- Wet Clutch & Brake with multi-disc linings
- Moving Bolster
- Plunger guided
- Link motion
- Hydraulic Clamps and Die lifter
- Programmable Cam Switches
- Motorized Die Cushion
- Die Cushion with Hydraulic damping
- Variable Speed Motor
- Flywheel brake
- Knock out device
- Tonnage indicator
- Slide Adjustment lock

