



ISO Certified 9001 : 2015



PNEUMATIC
CLUTCH
& ROLLING KEY
Power
PRESSES

BETTER

QUALITY, COST, DELIVERY, SERVICE



BALAJI 'C' TYPE PNEUMATIC CLUTCH POWER PRESS

- More Reliable
- More User Friendly
- Extra Safety
- Better Technology

OPTIONAL ACCESSORIES

- Motorized shut height with digital indicator
- Hydraulic Overload Safety
- Pneumatic Die Cushion
- Photo Electric Safety Curtains
- PLC Control With HMI Display
- Variable Frequency Speed Drive
- Inclinal Mechanisms

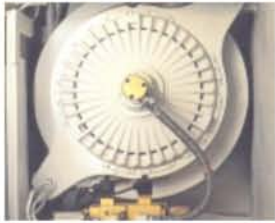
MORE RIGID & ACCURATE, EVEN MORE SAFETY FEATURES THE POWER PRESSES THAT RAISE STANDARD'S OF PRECISION IN FORMING INDUSTRY

STANDARD ACCESSORIES

- Air Clutch
- Air Tank
- Frl Unit
- Dual Solenoid Valve
- Router Seal
- Rotary Cam Limit Switch
- Electric Panel
- Electric Panel With Remote Two Hand Control System & Foot Switch
- Complete With PVC Channel Wiring
- Auto Lubrication Device
- Lubrication Pump With Low Level Indicator & Buzzer
- Low Air Pressure Reservoir With Indicator & Buzzer
- Over Load Electrical Safety With Indicator & Buzzer

CAPACITY RANGE -25 TON TO 250 TON

"Balaji" Make Heavy Duty Steel Fabricated Geared 'C' / 'H' Type Frame Pneumatic Clutch Power Press Fitted With Standard Make Electric Motor, Panel, Pneumatic Clutch And Brake With 'Start' & 'Off' Option, Clutch Can Be Set To 'Inching', 'Continues', 'Single Stroke' & Reversing Option With Two Palm Buttons Or By Foot Switch Complete With Vee Belts, Flexible Pipe Wiring, Flywheel And Gear Guards, Ball Screw Spanner Tommey Bar, As Per Following Specifications:



CLUTCH/ BRAKE AND DRIVE UNIT

Pneumatic Combination Clutch-brake Unit Ensures Shorter Braking Time With Automatic Synchronisation Of Clutch And Brake To Enhance Operator Safety And Noiseless Operation.



PROGRAMABLE LOGIC CONTROL SYSTEM

PLC brings a combination of greater flexibility and increased performance, upto 4.5 times faster scan time enhancing response with increase I/O capacity for advanced network/system control, increased memory for larger programers & can easily be integrated with automation and auxiliaries.

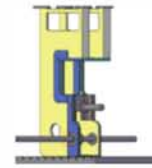


DIGITAL DIE HEIGHT INDICATOR

East To Use Motorised Slide Adjustment With Digital Display Is Provided As Standard On NX-60 To 250 Models. The Die Height Is Displayed In Units Of 0.1mm For Precise Slide Adjustment.



NX-110



FRAME

All presses frames are fabricated from extra high tensile steel plate and Reinforced by heavy ribbing assure the least deflection against full load. The Frame element are thermally stress relieved for maintaining accuracy over.



CRANK SHAFT & BEARING

Eccentric shaft is machined from normalized carbon steel forged. It has been ground finished on bearing surface. Heavy walled phosphorus bronze bearings use for long run.



SLIDE & GUIDES

Heavy duty cast iron slide runs in long cast iron guides and bearing surface of slide guides slide face and bed of each press are hard scraped and provides smooth movement of slide square to the table geometrical alignment to I.S.I. / Prof. SCHLESINGER'S limits of accuracy.



CLUTCH & BRAKE

A heavy duty dynamically balanced single disk combined clutch and brake unit is used for a continuous jolt free strokes and reduce noise. One board mounting provides easy accessibility for maintenance.



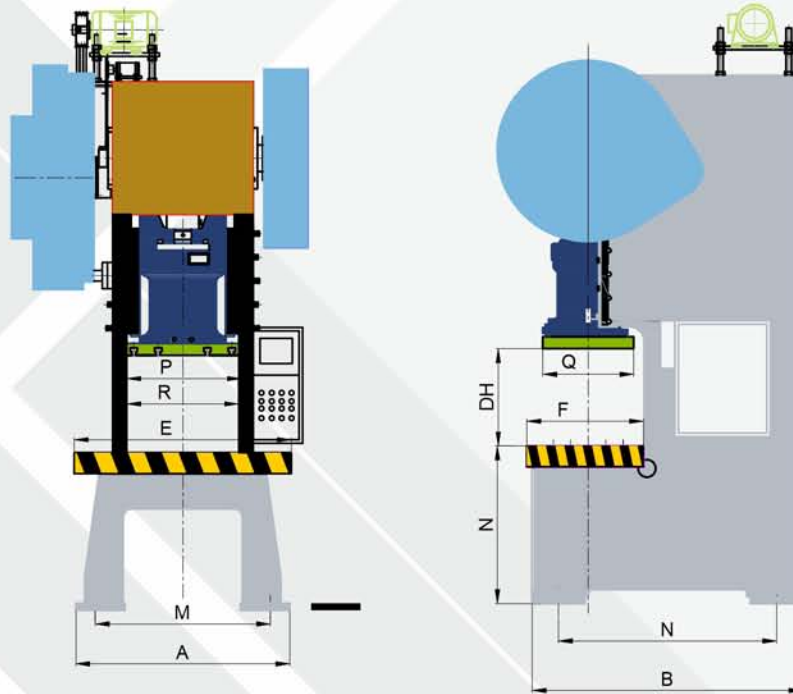
PRESS LUBRICATION

All presses are equipped with centralized on shot lubrication system to all important Point.



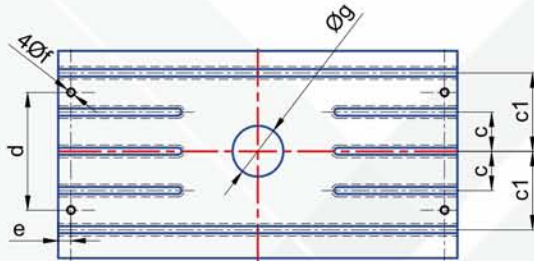
ELECTRICAL

All Standard make electrical are used and are simple and safe. Provide complete safety for machine and operators.

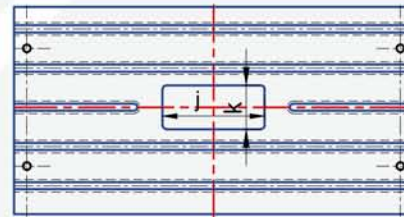


TECHNICAL SPECIFICATIONS:

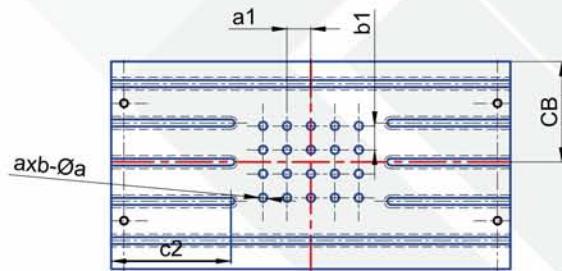
Model		NX-25	NX-35	NX-60	NX-80	NX-110	NX-160	NX-200	NX-250
Capacity (in Tone)		25T	35T	60T	80T	110T	160T	200T	250T
Stroke Length Fixed(mm)		60	70	80	100	125	150	150	150
Speed Fixed (Per Minute)		70	60	60	50	50	50	40	40
Speed Variable (Per Minute)		50-70	40-65	40-65	40-60	40-60	35-55	30-45	30-45
Bolster Area (mm) (ExF)		600X350	700X400	900X500	1000X550	1150X650	1250X750	1400X800	1500X850
Shut Height (Die Height)(mm)(DH)		240	280	350	370	400	450	500	500
Slide Plate Area (LRxFB)(mm)(PxQ)		300X200	350X250	500X400	560X460	650X500	720X580	800X650	900X700
Slide Adjustable (mm)		50	50	70	70	80	100	120	130
Tool Bore (DIA.xDEPTH)(mm)		Ø32x45mm	Ø44x50mm	Ø50x65mm	Ø50x65mm	Ø60x75mm	Ø60x75mm	Ø75x90mm	Ø75x90mm
Main Motor (HP./RPM.)		3/1440	3/1440	7.5/1440	10/1440	10/1440	15/1440	20/1440	25/1440
Floor To Top Bolster(mm)(N)		800	800	900	900	900	900	900	900
Pneumatics Die Cushion	Die Cushion Force	5T	5T	7T	7T	10T	15T	20T	25T
	Die Cushion Area	220X220	220X220	250X250	250X250	400X300	480X300	530X430	600X550
	Die Cushion Stroke	65mm	65mm	70mm	70mm	105mm	110mm	120mm	160mm



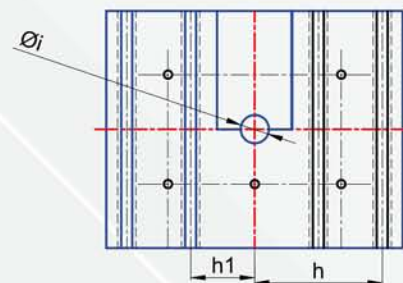
BOLSTER STANDERD



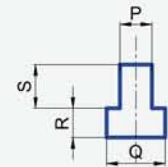
BOLSTER WITH RECTANGULAR OPENING



BOLSTER WITH DIE CUSHION



SLIDE SURFACE



DETAIL OF 'T'- SLOT

	A	B	C
P	20	22	28
Q	32	40	46
R	16	20	22
S	24	30	38

TECHNICAL SPECIFICATIONS:

Model	NX-25	NX-35	NX-60	NX-80	NX-110	NX-160	NX-200	NX-250
a1 x b1	75x75	75x75	75x75	75x75	75x75	75x75	75x75	75x75
a x b	3x5	3x5	4x5	4x5	4x7	4x7	6x9	6x9
a	Ø22mm	Ø22mm	Ø22mm	Ø22mm	Ø32mm	Ø32mm	Ø32mm	Ø32mm
c	100	100	100	100	100	150	150	150
c1	-	-	100	100	100	300	300	300
c2	175	200	275	325	325	400	400	400
d	130xØ20mm	130xØ20mm	300xØ20mm	300xØ25mm	300xØ25mm	450xØ32mm	450xØ32mm	450xØ32mm
e	30	30	40	40	40	40	40	40
f	Ø20x4mm	Ø20x4mm	Ø20x4mm	Ø25x4mm	Ø25x4mm	Ø32x4mm	Ø32x4mm	Ø32x4mm
g	Ø100	Ø150	Ø160	Ø180	Ø225	Ø250	Ø300	Ø300
j	260	300	300	360	500	500	650	650
k	100	120	150	180	200	220	240	240
h1	-	-	-	-	150	150	150	150
h	150	150	150	150	150	300	300	300
l	Ø32	Ø44	Ø50	Ø50	Ø60	Ø60	Ø75	Ø75
CB	175	200	250	275	325	325	400	400
T- SLOT	A	A	B	B	B	C	C	C



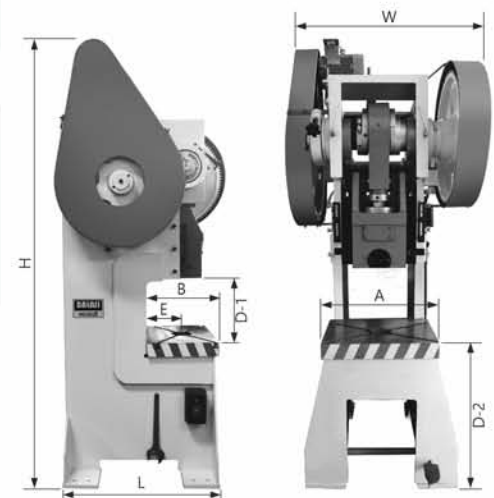
SBB-50 TON



SBB-30 TON

'BALAJI' SBB STANDARD SERIES PRESSES

- Cost Efficient
- Attractive Design
- Good Accuracy
- Low Maintenance



SPECIFICATION OF STEEL BODY, GEARED STRAIGHT SIDE 'C' FRAME POWER PRESSES

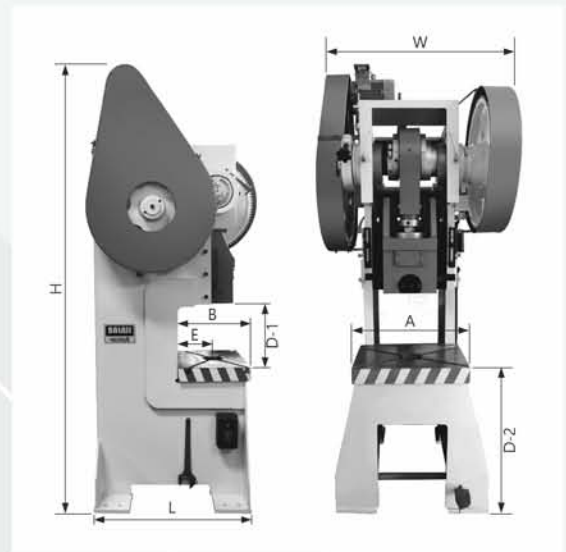
TECHNICAL SPECIFICATIONS:	SBB-20 Ton	SBB-30 Ton	SBB-50 Ton	BSP-25 Ton	BSP-35 Ton
Crank Shaft Dia	Ø65mm	Ø82mm	Ø102mm	Ø75mm	Ø87mm
Stroke Fixed	50mm	60mm	80mm	60mm	70mm
Adj. Stroke Length (Optional)	5-50mm	5-60mm	5-80mm	5-60mm	5-70mm
Hole In Ram (Dia X Depth)	38x50mm	44x55mm	50x65mm	38x50mm	44x55mm
Hole In Bed	120mm	140mm	160mm	140mm	190mm
Hole In Bolster	-	-	-	90mm	100mm
Bed Area (A x B)	500x325mm	550x400mm	650x475mm	540x365mm	630x430mm
Shut Height	240mm	270mm	325mm	240mm	285mm
S.P.M	70	60	50	70	60
Center To Back (E)	160mm	200mm	255mm	160mm	200mm
Distance Between Bed To Ram(D-1)	290mm	330mm	405mm	300mm	355mm
Floor To Top Of Bed (D-2)	800mm	800mm	900mm	800mm	800mm
Total (HXLXW)	1685x725x970mm	1950x840x1170mm	2580x1140x1420mm	1900x810x1120mm	2500x1100x1350mm
Electric Motor	2HP/1440	3HP/1440	5HP/1440	2HP/1440	3HP/1440
Weight Net (Approx)	1050 kg	1500 kg	2550 kg	1250 kg	1900 kg



BSP-110 TON

'BALAJI' **BSP EXTRA HEAVY DUTY** SERIES PRESSES

- › Heavy Duty
- › Excellent Durability
- › Heavier in Weight
- › Better Reserve Capacity

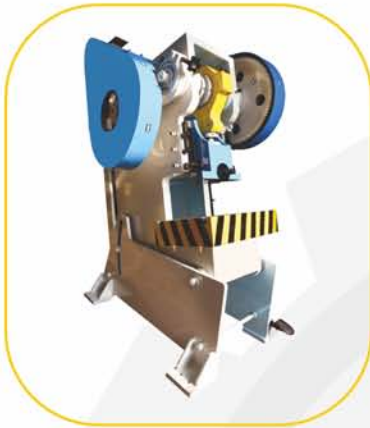


SPECIFICATION OF STEEL BODY, GEARED 'C' FRAME OBI/NON INCLINABLE POWER PRESSES

'BALAJI' MAKE HEAVY DUTY STEEL FABRICATED GEARED & UN-GEARED ROLLING KEY POWER PRESS FITTED WITH STANDARD MAKE ELECTRIC MOTOR, MOTOR PULLEY, STARTER, VEE-BELTS, LUBRICATION DEVICE, COMPLETE WITH FLEXIBLE PIPE WIRING, FLYWHEEL AND GEAR GAURDS, BALL SCREW SPANNERS AS PER REQUIRED SPECIFICATIONS.

BSP-60 Ton	BSP-80 Ton	BSP-110 Ton	BSP-160 Ton	BSP-200 Ton	BSP-250 Ton
Ø110mm	Ø130mm	Ø150mm	Ø180mm	Ø200mm	Ø225mm
100mm	120mm	150mm	150mm	150mm	150mm
5-100mm	5-120mm	5-150mm	5-150mm	10-150mm	10-150mm
50x65mm	50x65mm	60x75mm	T-Slot Plate	T-Slot Plate	T-Slot Plate
240mm	270mm	350mm	360mm	360mm	360mm
125mm	145mm	160mm	165mm	165mm	165mm
780x530mm	800x600mm	1000x665mm	1050x700mm	1100x720mm	1100x750mm
335mm	350mm	420mm	450mm	450mm	480mm
50	45	40	35	30	25
255mm	265mm	315mm	320mm	320mm	325mm
435mm	470mm	570mm	600mm	650mm	680mm
900mm	900mm	900mm	900mm	900mm	900mm
2600x1120x1400mm	2800x1250x1530mm	2950x1350x1650mm	3100x1500x1800mm	3200x1650x1950mm	3400x1800x2100mm
5HP/1440	7.5HP/1440	10HP/1440	15HP/1440	20HP/1440	25HP/1440mm
3300 kg	4500 kg	6500 kg	9500 kg	11500 kg	15000 kg

POWER PRESSES



BSP Series, C Frame inclinable Power Press



BSS Series, H Frame Power Press



Pneumatic Clutch Power Press



Over Crank Shearing Machine



Pneumatic Clutch Power Press



Under Crank Shearing Machine



BSP Series, Pneumatic Power Press



Powder Compacting Machine



Pneumatic Clutch Sizing Machine



With our Diligent efforts & Hard work of Our Team, we are excellently Catering to the need of various industrial sectors all across country

Manufactured by:

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