

**SBEW**<sup>TM</sup>  
SHRI BALAJI ENGINEERING WORKS

**BALAJI**  
बालाजी

ISO Certified 9001 : 2015

**NEXUS**  
SERIES



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

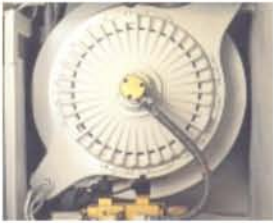
## **MORE RIGID & ACCURATE, EVEN MORE SAFETY FEATURES THE POWER PRESSES THAT RAISE STANDARD'S OF PRECISION IN FORMING INDUSTRY**

### 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.

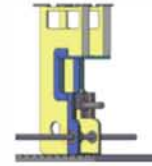


## DIGITAL DIE HEIGHT INDICATOR

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.



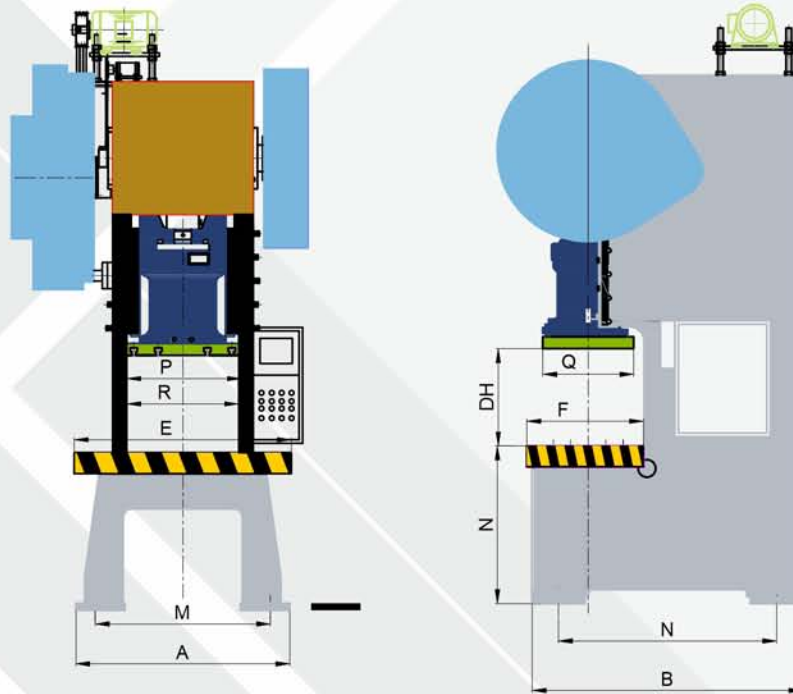
## PRESS LUBRICATION

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



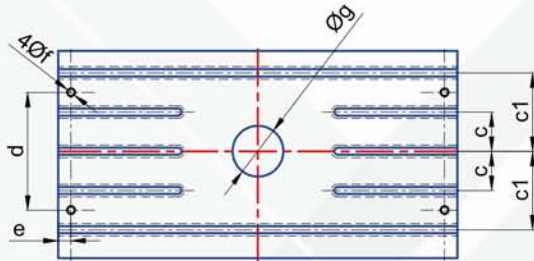
## ELECTRICAL

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

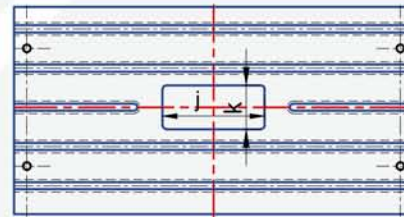


#### TECHNICAL SPECIFICATIONS:

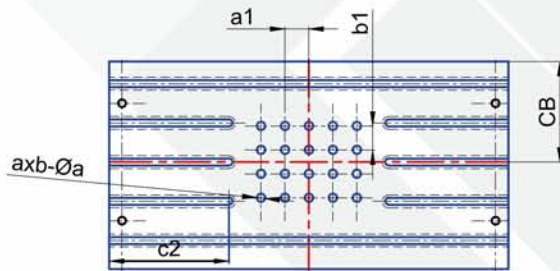
| Model                             |                    | NX-35    | NX-45    | NX-60    | NX-80    | NX-110   | NX-160   | NX-200   | NX-250   |
|-----------------------------------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Capacity (in Tone)                |                    | 35T      | 45T      | 60T      | 80T      | 110T     | 160T     | 200T     | 250T     |
| Stroke Length Fixed(mm)           |                    | 70       | 75       | 80       | 100      | 125      | 150      | 150      | 150      |
| Speed Fixed ( Per Minute)         |                    | 60       | 60       | 60       | 50       | 50       | 50       | 40       | 40       |
| Speed Variable (Per Minute)       |                    | 40-65    | 40-65    | 40-65    | 40-60    | 40-60    | 35-55    | 30-45    | 30-45    |
| Bolster Area (mm) (ExF)           |                    | 700X400  | 800X450  | 900X500  | 1000X550 | 1150X650 | 1250X750 | 1400X800 | 1500X850 |
| Shut Height (Die Height)(mm)(DH)  |                    | 280      | 320      | 350      | 370      | 400      | 450      | 500      | 500      |
| Slide Plate Area (LRxFB)(mm)(PxQ) |                    | 350X250  | 450X350  | 500X400  | 560X460  | 650X500  | 720X580  | 800X650  | 900X700  |
| Slide Adjustable (mm)             |                    | 50       | 50       | 70       | 70       | 80       | 100      | 120      | 130      |
| Tool Bore (DIA.xDEPTH)(mm)        |                    | Ø44x50mm | Ø50x65mm | Ø50x65mm | Ø50x65mm | Ø60x75mm | Ø60x75mm | Ø75x90mm | Ø75x90mm |
| Main Motor (HP./RPM.)             |                    | 3/1440   | 5/1440   | 7.5/1440 | 10/1440  | 10/1440  | 15/1440  | 20/1440  | 25/1440  |
| Floor To Top Bolster(mm)(N)       |                    | 800      | 900      | 900      | 900      | 900      | 900      | 900      | 900      |
| Pneumatics Die Cushion            | Die Cushion Force  | 5T       | 5T       | 7T       | 7T       | 10T      | 15T      | 20T      | 25T      |
|                                   | Die Cushion Area   | 220X220  | 230X230  | 250X250  | 250X250  | 400X300  | 480X300  | 530X430  | 600X550  |
|                                   | Die Cushion Stroke | 65mm     | 70mm     | 70mm     | 70mm     | 105mm    | 110mm    | 120mm    | 160mm    |
|                                   |                    |          |          |          |          |          |          |          |          |



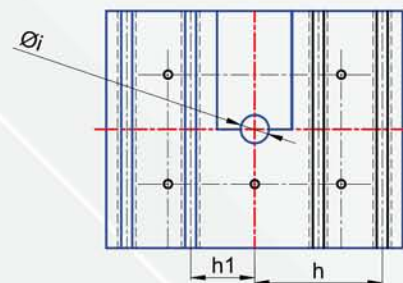
BOLSTER STANDERD



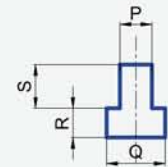
BOLSTER WITH RECTANGULAR OPENING



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-35     | NX-45     | 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       | 4x5       | 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      | 200       | 225       | 275       | 325       | 325       | 400       | 400       | 400       |
| d       | 130xØ20mm | 300xØ20mm | 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       | Ø150      | Ø160      | Ø160      | Ø180      | Ø225      | Ø250      | Ø300      | Ø300      |
| j       | 300       | 300       | 300       | 360       | 500       | 500       | 650       | 650       |
| k       | 120       | 130       | 150       | 180       | 200       | 220       | 240       | 240       |
| h1      | -         | -         | -         | -         | 150       | 150       | 150       | 150       |
| h       | 150       | 150       | 150       | 150       | 150       | 300       | 300       | 300       |
| l       | Ø44       | Ø50       | Ø50       | Ø50       | Ø60       | Ø60       | Ø75       | Ø75       |
| CB      | 200       | 225       | 250       | 275       | 325       | 325       | 400       | 400       |
| T- SLOT | A         | A         | B         | B         | B         | C         | C         | C         |



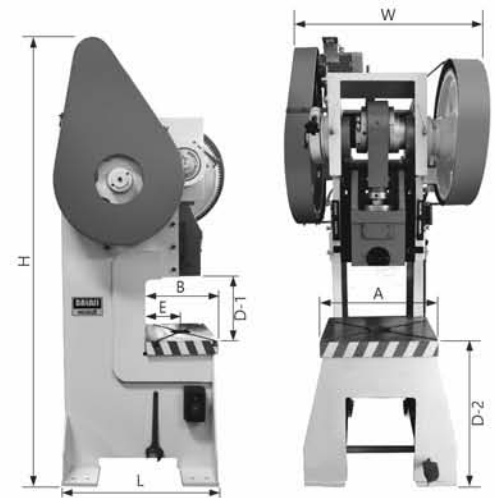
**SBB-50 TON**



**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

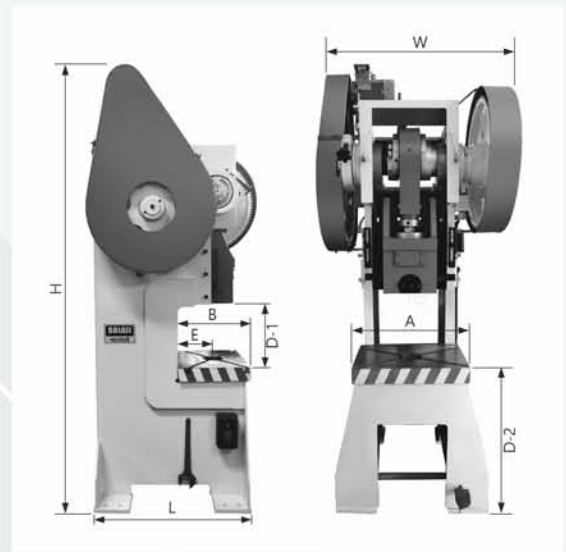
| TECHNICAL SPECIFICATIONS:        | SBB-20 Ton     | SBB-30 Ton      | SBB-50 Ton       | BSP-25 Ton      | BSP-35 Ton       |
|----------------------------------|----------------|-----------------|------------------|-----------------|------------------|
| Crank Shaft Dia                  | Ø65mm          | 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

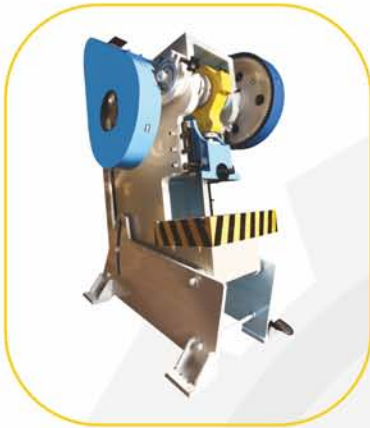


### **SPECIFICATION OF STEEL BODY, GEARED 'C' FRAME OBI/NON INCLINABLE POWER PRESSES**

'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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