

# DSN HYDRAULIC ENGINEERING WORKS

Email [dsnhydraulics2014@gmail.com](mailto:dsnhydraulics2014@gmail.com)

Contact : 09025753337, 07810030566, 09841630566

Website [www.dsnhydraulics.com](http://www.dsnhydraulics.com)

Hydraulic & Pneumatic Equipments, Manufacturers, Special Fabrications & Services  
Factory at No. 40, Thiruvalluvar Street, Mogappair Road, Padi, Chennai - 600 050

Dear Sir,

I am a professionally qualified hydraulic engineer with 40 year's experience. As for my work experience, I have worked as **Service Engineer in Asia's No.1 Hydraulic Presses Manufacturing Company "Oriental Hydraulics" (German collaboration)** and **"Oriental Enterprises"** (1986-1995), where I had experience working all over India in various sectors like Defense, Indian Aeronautics, Railways, Private and public Ltd Sectors. I have also been as a Maintenance Engineer in No.1 Forging Unit **"India Forge"** (1996-2000) where I had control over **650 ton to 3000 ton** presses. I have developed Planning and Organizational skills which I was able to develop from my experience. And proceeded with the foundation of DSN Hydraulic Engineering Works.

We "DSN Hydraulic and Engineering Works" are the reputed firm engaged in Manufacturing and trading the finest quality range of:

- \*Hydraulic Cylinders
  - \*Hydraulic Power packs
  - \*Deep Drawing presses
  - \*Forming Presses
  - \*Powder Compacting presses
  - \*Forging presses
  - \*Coining presses
  - \*Rubber Moulding presses
- and all type of Hydraulic special purpose machines

## TRADING

- \* All type of Hydraulic Valves and pumps, Pneumatic cylinder, Valve's Fittings, Hose
- \*Items and Bearings, Oil Seals, 'O' rings, Hydraulic Oil
- \*Supply of Electrical Control Elements

## MACHINING

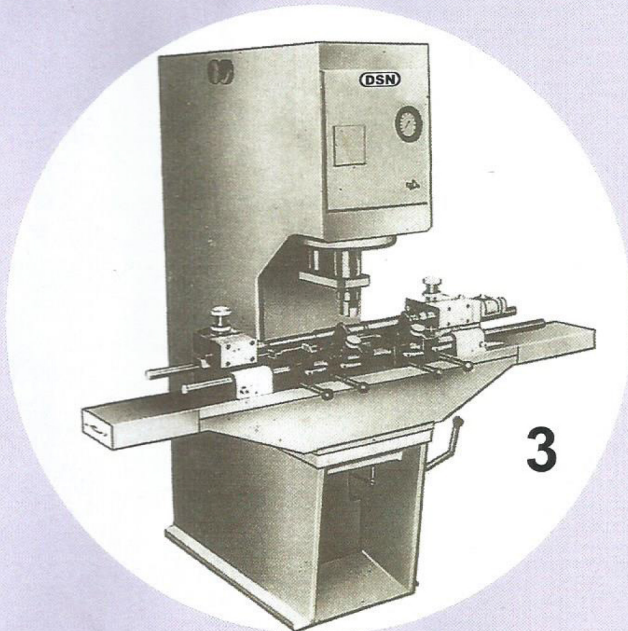
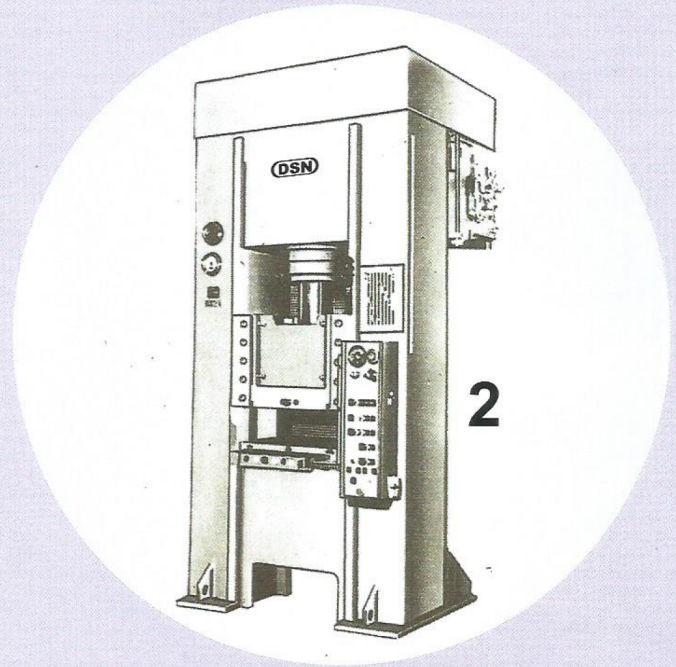
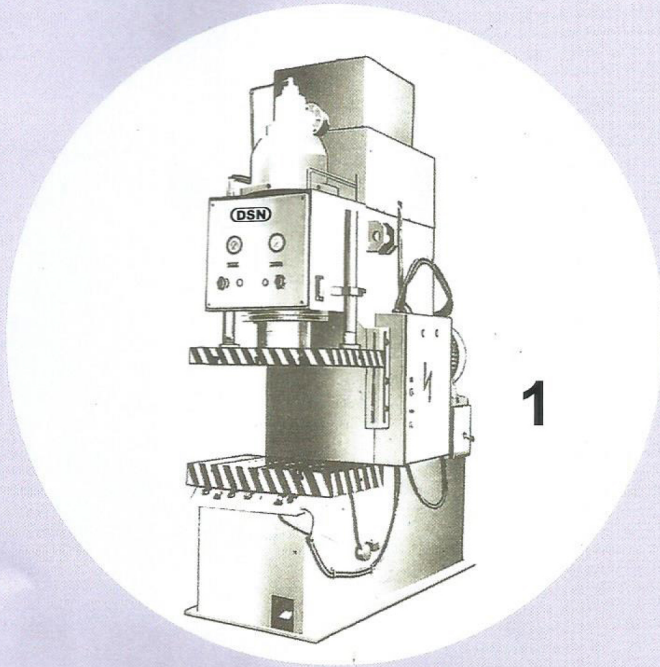
- \*Late work Milling machine Work Fabrication Work also done.
- \*Service also done

Please send your details

Thanks and Regards

D.Sankaranarayanan  
DSN Hydraulic Engineering Works

# DSN DSN HYDRAULIC ENGINEERING WORKS



- 1.HIGH SPEED  
GAP FRAME  
HYDRAULIC PRESSES
- 2.CLOSED FRAME  
HYDRAULIC PRESSES
- 3.NORMAL SPEED  
GAP FRAME  
HYDRAULIC PRESSES  
WITH STRAIGHTENING  
ATTACHMENT.

# HIGH SPEED GAP FRAME HYDRAULIC PRESSES

These presses are designed for High Production - which ensures economical use particularly in mass production.

These Presses contains following features:

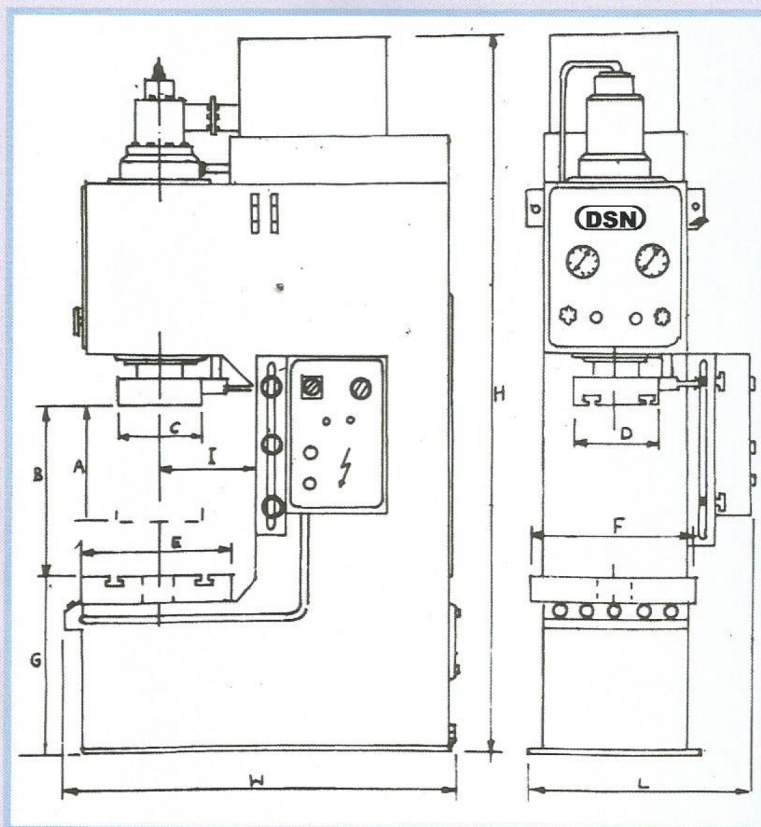
Additional hand lever for tool setting operations.

Pressure infinitely variable for adjustment to work and tool.

Easy and sensitive setting of ram movements (rapid advance, work length, rapid return) and ram stroke position.

Arbitrary selection of changer-over point from rapid advance downward to working speed before the proper working stroke begins.

amply dimensioned ram and bed surfaces with tee-slots.



KEY	TONS	10	25	40	63	100	160	250	
	MODEL	DSN10	DSN25	DSN40	DSN63	DSN100	DSN160	DSN250	
	RETURN FORCE	180	5.60	14	22	30	30	30	TONS
	SPEED OF RAM: DOWN STROKE	100	110	120	75	200	200	200	MM/Sec
	PRESSING SPEED	40	25	20	15	10	6	8	
	UP STROKE	300	300	250	200	150	125	100	„
I	DEPTH OF THROAT	250	360	355	355	355	360	360	MM
A	RAM STROKE	400	500	500	500	500	500	500	MM
D	RAM PLATE LEFT TO RIGHT	250	300	320	350	400	450	500	MM
C	FRONT TO BACK	200	250	280	315	355	400	450	MM
E	TABLE FRONT TO BACK	400	500	500	550	550	660	660	MM
F	TABLE LEFT TO RIGHT	500	630	630	750	750	900	900	MM
G	HEIGHT OF TABLE TOP	800	800	800	800	800	800	800	MM
H	HEIGHT	3050	3350	3500	3500	3600	3750	3750	MM
W	LENGTH	1200	1450	1400	1500	1600	1850	1850	MM
L	WIDTH	800	880	1000	1000	1000	1100	1100	MM
B	DAY LIGHT	500	630	630	630	630	800	800	MM
	APPROXIMATE WEIGHT	1580	2600	2700	3100	4000	8000	9000	KGS
	CYLINDER BORE	100	160	200	250	280	400	400	MM
	RAM DIA	90	140	160	200	220	360	360	MM
	MAX. PRESSURE	127.3	125	127.3	128.3	162.5	127.3	200	Kg/Cm <sup>2</sup>
	MOTOR H.P	10	15	15	20	20	20	35	HP

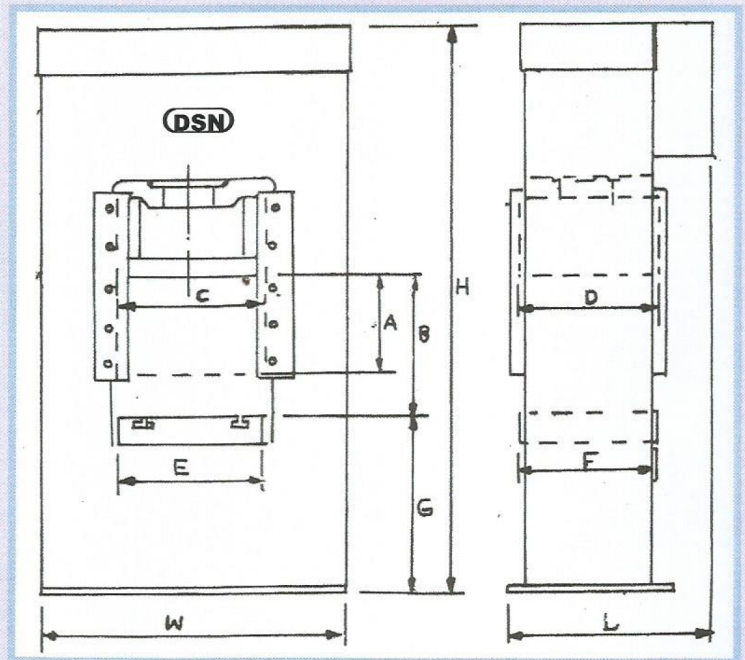
# CLOSED FRAME HYDRAULIC PRESSES

These Presses are designed for wide range of applications such as forming & drawing of metals, Bakelite moulding, Powder Compacting etc.

The frame is a sturdy, non deflecting structure fabricated out of tested plates/ Sections of high quality steel. Special and specific changes in dimensions in frame structure such as daylight, bed size can be altered.

This model presses can be offered with Power Packs mounted as per the sktch on top of the press or on the side of the press on the floor.

Higher Ram speeds can be offered with prefilling system.

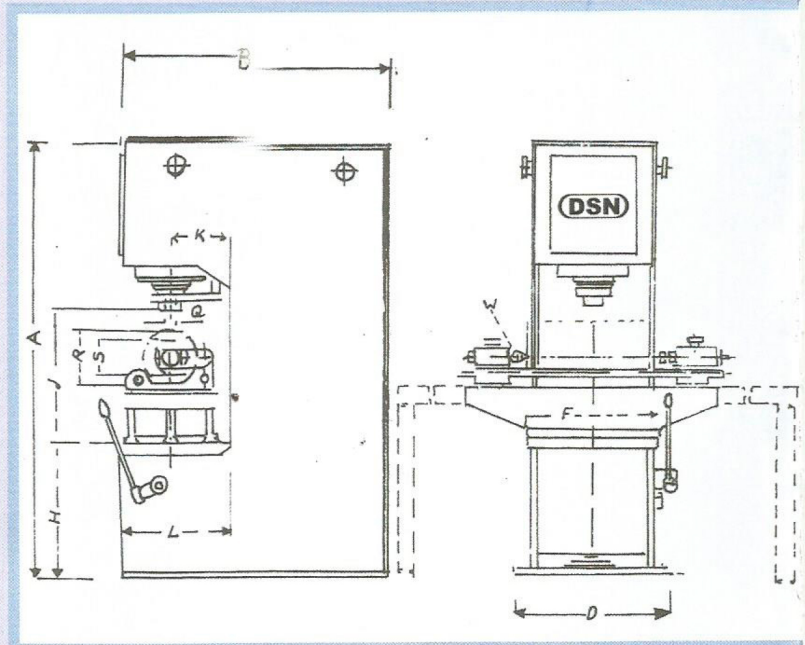


KEY TONS	40	63	100	160	200	250	300	
MODEL	DS40	DS63	DS 100	DS 160	DS200	DS250	DS300	
RETURN FORCE	14	22	30	30	30	30	30	TONS
SPEED OF RAM: APPROACH	95	60	52	25	25	20	24	MM/Sec
PRESSING	18	10	10	7	6	5	8	"
RETURN	260	165	135	130	135	110	125	"
A RAM STROKE	500	500	500	500	500	500	500	MM
CXD RAMPLATE	400 x 400	400 x 400	800 x 800	1000 x 800	1000 x 1000	1000 x 1000	1000 x 1000	MM
ExF FIXED TABLE	400 x 400	400 x 400	800 x 800	800 x 800	1000 x 1000	1000 x 1000	1000 x 1000	MM MM
G WORKING HEIGHT	800	800	800	1000	1000	1000	1000	MM
B DAY LIGHT	600	600	600	800	800	800	800	MM
DIE CUSHION TONNAGE	16	20	25	40	63	63	100	TONS
DIE CUSHION STROKE	150	150	150	150	200	200	200	MM
OVERALL DIMN.:								
L LENGTH	900	900	900	1500	1800	1900	2000	MM
W BREADTH	800	800	1250	1500	1500	1600	1600	MM
H HEIGHT	2500	2600	2700	2750	2750	2900	2900	MM
MOTOR HP	15	15	20	25	25	30	40	HP

**NORMAL SPEED  
GAP FRAME HYDRAULIC PRESSES  
WITH STRAIGHTENING ATTACHMENT.**

The device is used for straightening shafts mainly in repair shops and consists of the straightening bed screwed on the table of the press (for larger straightening lengths supported by feet), a straightening carriage, as well as the necessary straightening and measuring apparatuses.

The shaft to be straightened is clamped between centres. By turning the shaft by hand the concentricity can be read from the effected as bending operation of a carrier on two supportsexceeding the elastic limit. Hereby, the spring mounted center holders are giving way and the shaft is laying on the anvils. Since the dial indicator is mounted in a protective special holder it need not be swivelled or retracted by which fact the straightening time is reduced. The anvils are made of rings that way that their height may be altered.



**Standard outfit of the straightening device:**

- 2 anvils complete
- 1 straightening insert in the press slide
- 1 dial indicator with holder (0.01 mm)

Distance between centres	800	1250	2000	3150 mm
Length of straightening bed	1600	2500	4000	6400 mm
Max. height of centers	100	100	100	100 mm
max. distance between the anvils	800	1250	1250	1250 mm
Number of feet	—	—	2	4
Weight,	210	270	305	400 kg

The above straightening attachment is offered with our Standard Gap Frame Presses from range of 10 Tons to 100 Tons

KEY TONS	2.5	10	25	40	63	100	160	250	
MODEL NO.	DSN 2.5	DSN 10	DSN 25	DSN 40	DSN 63	DSN 100	DSN 160	DSN 250	
Return force-	0.63	1.80	5.60	14	22	30	30	30	Tons
Speed of ram -									
Down Stroke	30	50	75	48	30	24	12	12	mm/sec
Mean Working Speed	10	18	18	14	12	9	9	9	mm/sec
Up Stroke	75	270	250	130	85	65	65	65	mm/sec
<b>K</b> Depth of Throat	150	250	360	355	355	355	360	360	mm
<b>R</b> Ram Stroke	280	400	500	500	500	500	500	500	mm
<b>L</b> Table, front to back	280	400	500	500	500	500	660	660	mm
<b>F</b> Table, left to right	290	400	500	560	630	710	800	800	mm
<b>H</b> Height of table top	220	710	710	710	710	710	710	730	mm
Space Occupied:									
<b>A</b> Height	1150	2045	2345	2500	2500	2600	2750	2750	mm
<b>B</b> Length	750	1200	1450	1400	1500	1600	1850	1850	mm
<b>D</b> Width	450	800	880	1000	1000	1000	1100	1100	mm
<b>J</b> Day light	355	500	630	630	630	630	800	800	mm
Approximate Weight	250	1080	2090	2100	2600	3500	7500	8500	Kgs.
Motor	1.5/2	3.7/5	5.5/7.5	7.5/10	7.5/10	7.5/10	11/15	15/20	KW/hp

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