

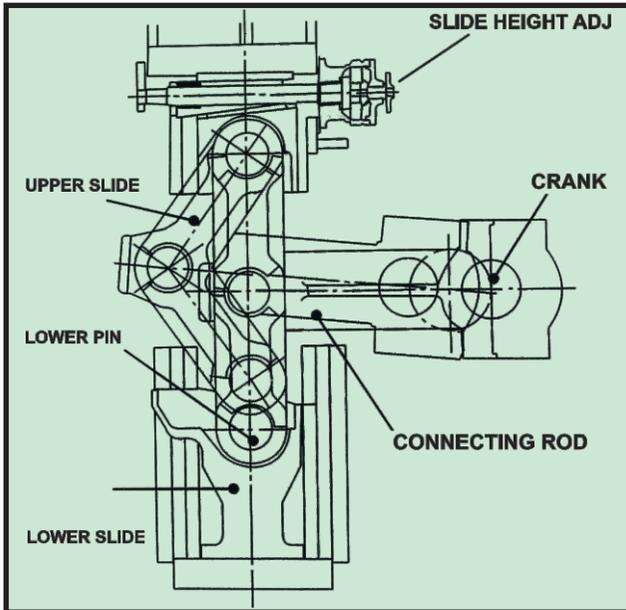
KNUCKLE JOINT PRESS SERIES NKJ

Narendra



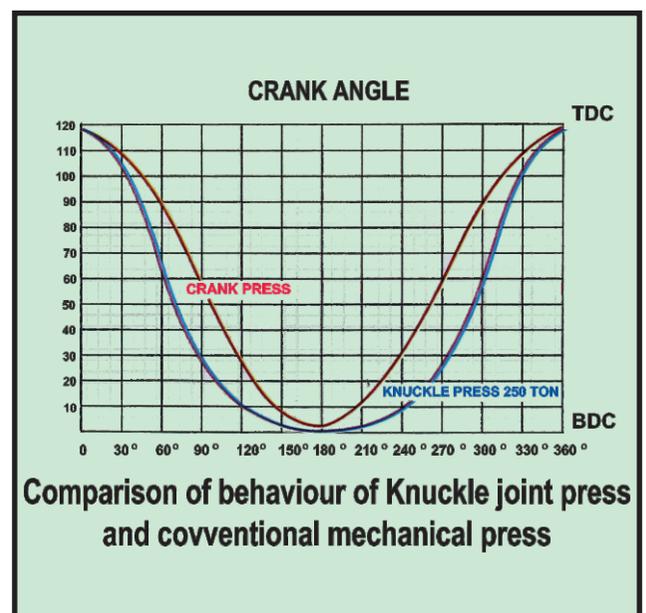
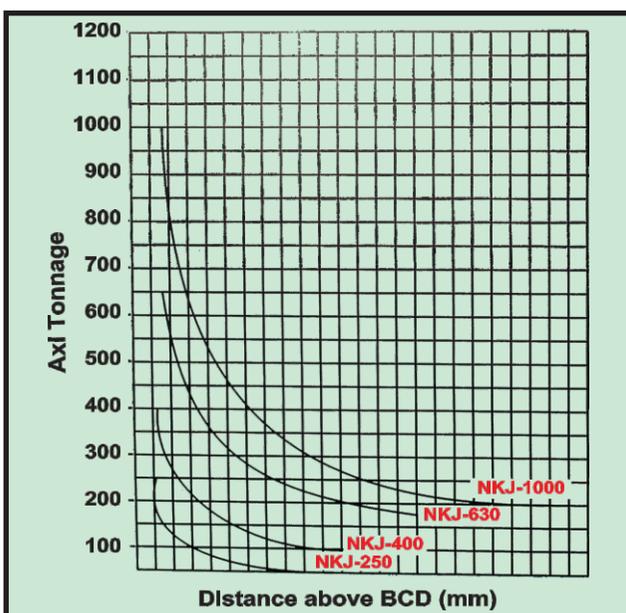
**METAL FORMING TECHNOLOGY FOR COINING
SIZING, COLD-FORGING, EXTRUDING,
TRIMMING, PIERCING**

KNUCKLE JOINT PRESSES SERIES NKJ



Knuckle joint linkage connects the upper and lower slides to create an optimum motion curve. The sine curve is transformed and retarded to a flat curve as the slide approaches BDC. Such a slide motion curve can ensure material to be formed / forged to a desired forming quality due to the slowdown of slide speed and longer period of forming.

Mechanical slide adjustment drive and hydraulic locking system ensure zero clearance of slide adjustment during operation, thus ensuring high quality of forged parts.



TECHNICAL SPECIFICATIONS

MODEL		NKJ-160	NKJ-250	NKJ-400	NKJ-630	NKJ-1000
CAPACITY	TONS	160	250	400	630	1000
TONNAGE RATING POINT	MM	2.5	4	6	8	8
STROKE LENGTH	MM	100	120	160	160	160
STROKE PER MINUTE (CONTINUOUS)	S.P.M	60	40	40	35	35
STROKE PER MINUTE (INTERMITENT)	S.P.M	25	16	16	14	14
DIE HEIGHT (S.D.A.U.)	MM	250	365	400	400	500
BOLSTER AREA (LRXFBXHT)	MM	400X400	430X570	550X650	600X700	700X800
SLIDE AREA (LR X FB)	MM	360X400	430X400	430X500	450X550	450X550
SLIDE ADJUSTMENT	MM	15	15	15	15	15
BOLSTER THICKNESS	MM	90	100	120	150	150
MAIN DRIVE MOTOR	HP	7.5	20	40	50	50

BED KNOCKOUT

CAPACITY	TONS	10	10	15	30	30
STROKE	MM	50	50	60	70	70

- ◆ Huge saving on material
- ◆ Precision-size, precision-shaped parts
- ◆ Tougher and stronger parts
- ◆ Ready to assemble part, no finish machining
- ◆ Cost efficient production



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GENERAL FEATURES

Knuckle joint press is ideal for forming operation where close tolerances are required. It is designed for operation which require slow but high force at lower zone of the stroke, therefore perfectly suited for coining, extruding, sizing and thick plate blanking. By virtue of the linkage system, the ram speed is very low as it approaches the BDC. This low punch entry speed allows enough time to provide plastic flow of material during critical cold forming zone.

ADVANTAGE

In comparison to sheet metal forming, the cold forging technology can reduce the material waste from 40 % up to 60 %. One of the most economical method for manufacturing high precision parts for metal. It also offers more accurate, stronger and longer life parts.

BETTER MECHANICAL CHARACTERISTICS

Through the cold-forge procedure, the grain structure of steels is mini-eliminated to reinforce its resistance strength about two times. This advantage can improve the materials with better mechanical characteristics which are closer to tolerances, thus a lower cost material is allowed to be adapted for cold forging production.

HIGHER PRODUCTIVITY

Work pieces with the irregular thickness or the complex shapes such as trapezoid, core or hollow cylinder etc, which is extremely difficult to produce by cutting forming, can be easily formed by cold forging technology.

SLIDE

The upper and lower slide are steel cast single pieces hinged to upper and lower link respectively through pins housed and profusely lubricated inside the slides. Unlike other presses, the slide adjustment mechanism is on the upper slide with taper-plate arrangement fixed at the top slide.

CLUTCH BRAKE

Combined Clutch & Brake are multi-disc type with non-asbestos liners. profusely fins in the casting helps to dissipate heat. It is designed for instant engagement and disengagement and is easily accessible for maintenance.

LUBRICATION

Motorized forced feed lubrication is of re-circulating type which ensures adequate oil supply, depending upon the bearing area and guide-ways. It also ensures cooling of bearings, which results in long life of machine.

Manufactured and Marketed by:

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