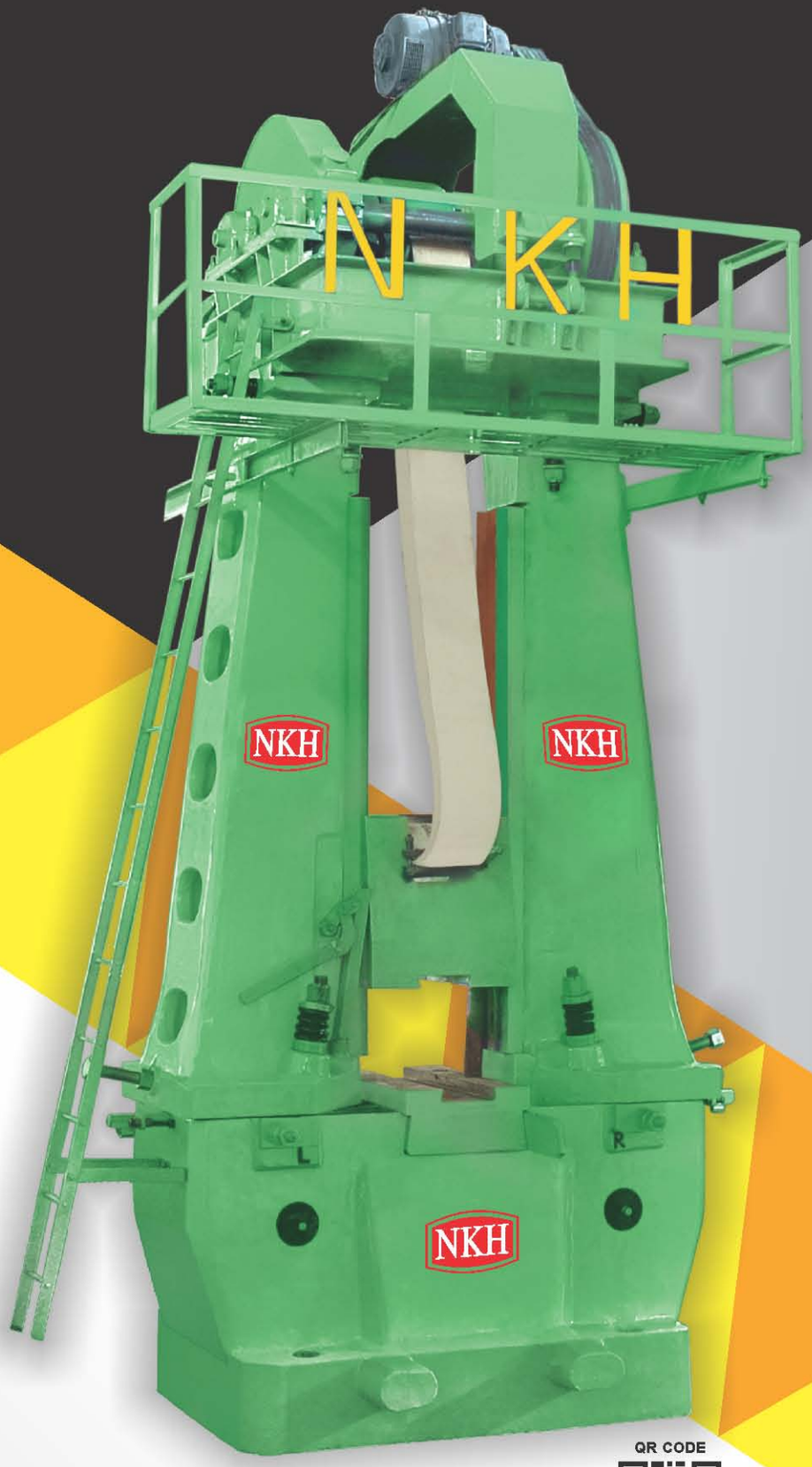
N.K FORGING & ROLLING INDUSTRIES

(Unit of Niranjan Singh KartarSingh Forging Pvt. Ltd.)

SINCE 1967
Ploneer In Forging Industry



FRICTION DROP HAMMERS

JAS-ANZ

An ISO 9001:2015 Company

QR CODE

http://nkhhammer.com
Scan Bar Code

Mfrs. of : Drop Forging Hammers, Power Presses, Friction Screw Presses & Forging Presses

Company Profile

Over 52 Years of Experience

info@forginghammer.com

In Careful Selection & Fabrication of Machines

Prior to 1966, Forging Industry which is the main industry was totally based upon foreign assistance and foreign technique. M/s. Niranjan Singh Kartar Singh brought a revolution in the forging industry in 1967 by manufacturing Friction Drop Forging Hammer on its own.

"N.K. Forging & Rolling Industry" manufacturers of "NKH" Friction Drop Forging Hammers is a unit of M/s. Niranjan Singh Kartar Singh Forgings Private Limited. S. Niranjan Singh who was the Managing Director of Niranjan Singh Kartar Singh Forging Private Limited was the managing partner of N.K. Forging & Rolling Industries. Now Niranjan Singh Kartar Singh Forgings Private Limited has diverted the business of "NKH" hammers to N.K. Forging and Rolling Industries.

"NKH" self contained friction drop forging hammer being manufactured in eight different capacities 500 KGS. , 750 KGS. , 1000 KGS. , 1500 KGS. , 2000 KGS. , 2500 KGS. , 3000 KGS. , & 4000 KGS capacity.

Customer's satisfaction and quality presentation has been our motto for the last four decades and assure its continuity in future. Thousands of our drop Hammers sold in India and abroad are working to entire satisfaction. The steel tup is lifted up by a fine quality nylon belt with the help of a high quality steel fabricaed lifter drum whose movement is controlled by a hand pull cord arrangement which engages and releases the driving friction drum through a steel band lined with brake lining. The accurate movement of the tup is ensured with help of alloy steel forged slides (guides), accurately machined, scrapped and grinded double inverted vees which are fitted and bolted on broad based box type steel casted pillars (coloumns/standards). Regular water cooling arrangement is provided to the friction drum to prevent excessive heating.

The Anvil Block (Base) is a solid one piece semi-steel casting weighing approximately twenty times the weight of the tup. To ensure that the machine stands balanced when erected on its foundation the anvil block is machine on both top and bottom faces.

"NKH" Friction Drop Forging Hammers have been designed with latest techincal know-how and with best quality fresh material. Full guarantee against defective material and workmanship is given to our customers for a period of one year. All our valued customers are welcome to conduct trials and inspect at our manufacturing unit at Chandigarh Road,Ludhiana.

Important
In addition, NKH has installed its steel plant (furnace) to cast steel columns, tups plumber blocks and special steels to be used in the manufacturing of friction drop hammers parts.

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Quality Assurance

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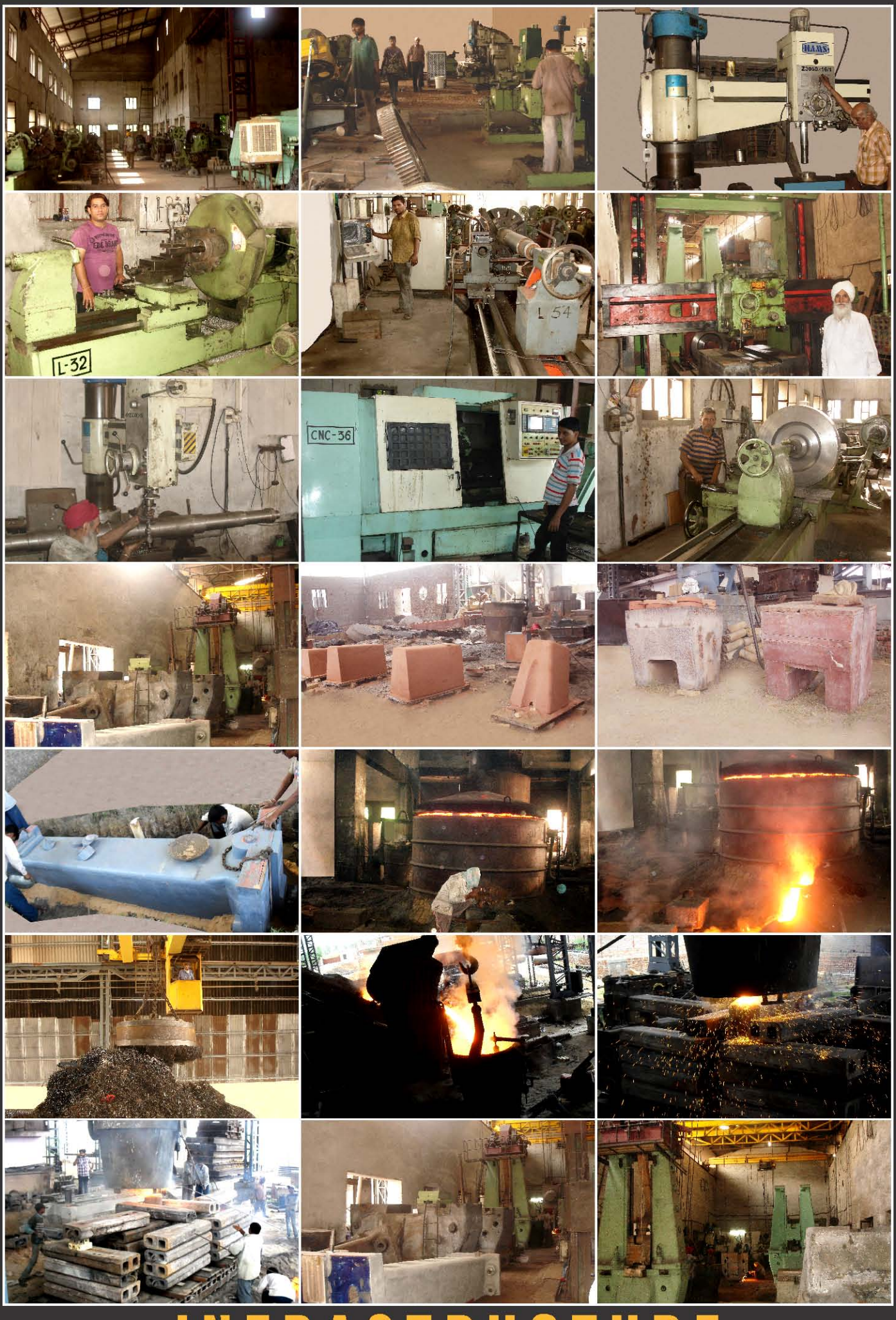
NK FORGING & ROLLING INDUSTRIES is an ISO 9001 : 2015 certified unit for manufacture and supply of Drop Forging Hammers and it's Spares certified by a leading certifying company JAS ANZ.

We stand committed to manufacturer quality Products and customers satisfaction is our motto. We always believe in continues improvement and in time delivery. We have established a modern quality testing facility that is managed by an efficient team of quality inspectors who ensure that no defective products goes out of our manufacturing unit. This team monitor the entire manufacturing process, right from purchasing of Raw Material up-to the final dispatch of our product Drop Forging Hammers, Power Presses, Friction Screw Presses, Forging Presses and it's Spares. To ensure that a reliable and trouble free range of quality products be provided to our valued customers.



INFRASTRUCTURE

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FRICTION DROP HAMMERS

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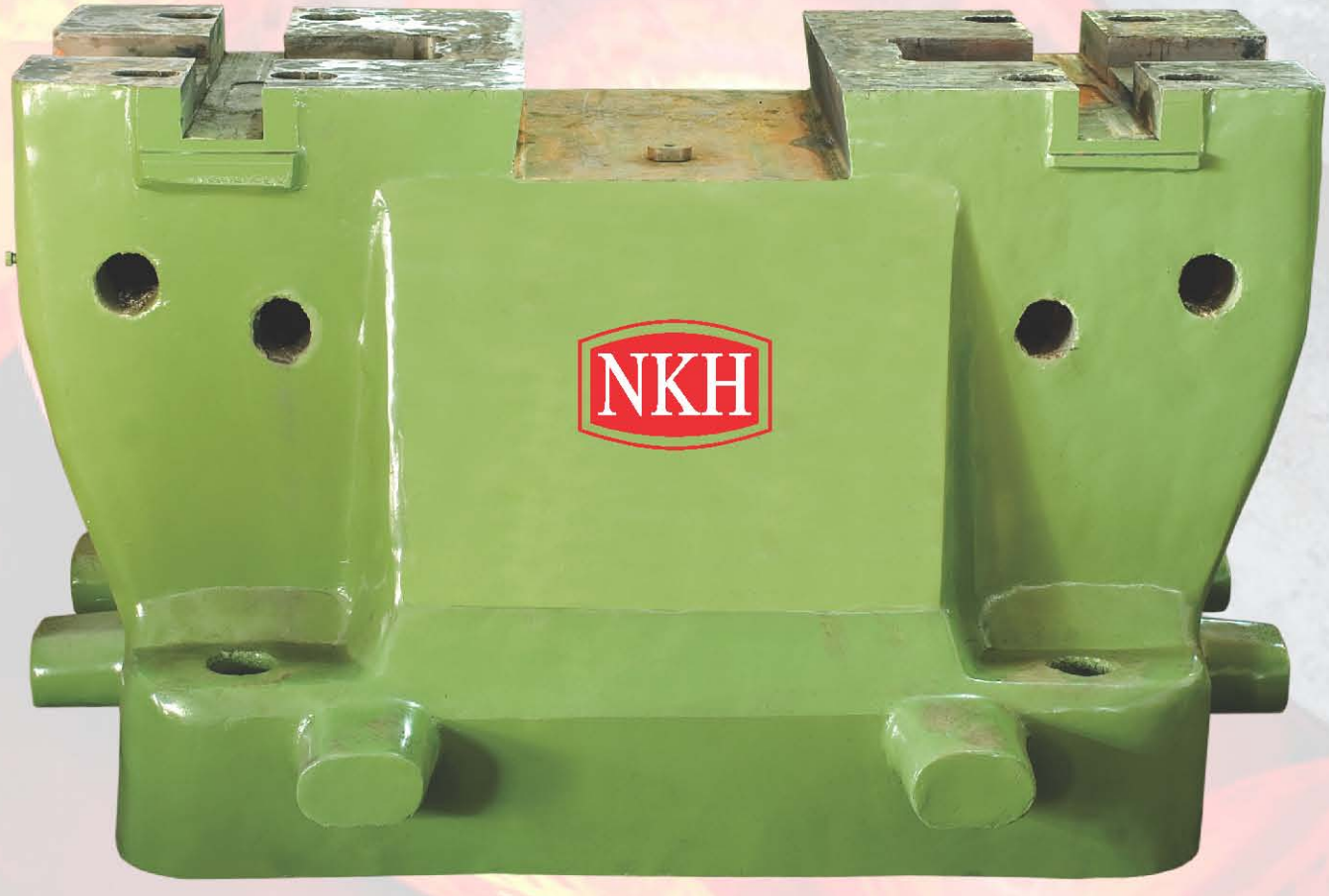
PRODUCTS

The anvil block is a solid single semi steel casting weighing approximately 20 times the nominal size of hammer of tup. is made in the dovetail type with an inverted vee recess whuch is machined in the anvil block (die holder)is secured to the anvil block by putting a tapered wedge in between the anvil block and die holder.

Anvil Block

Anvil Block



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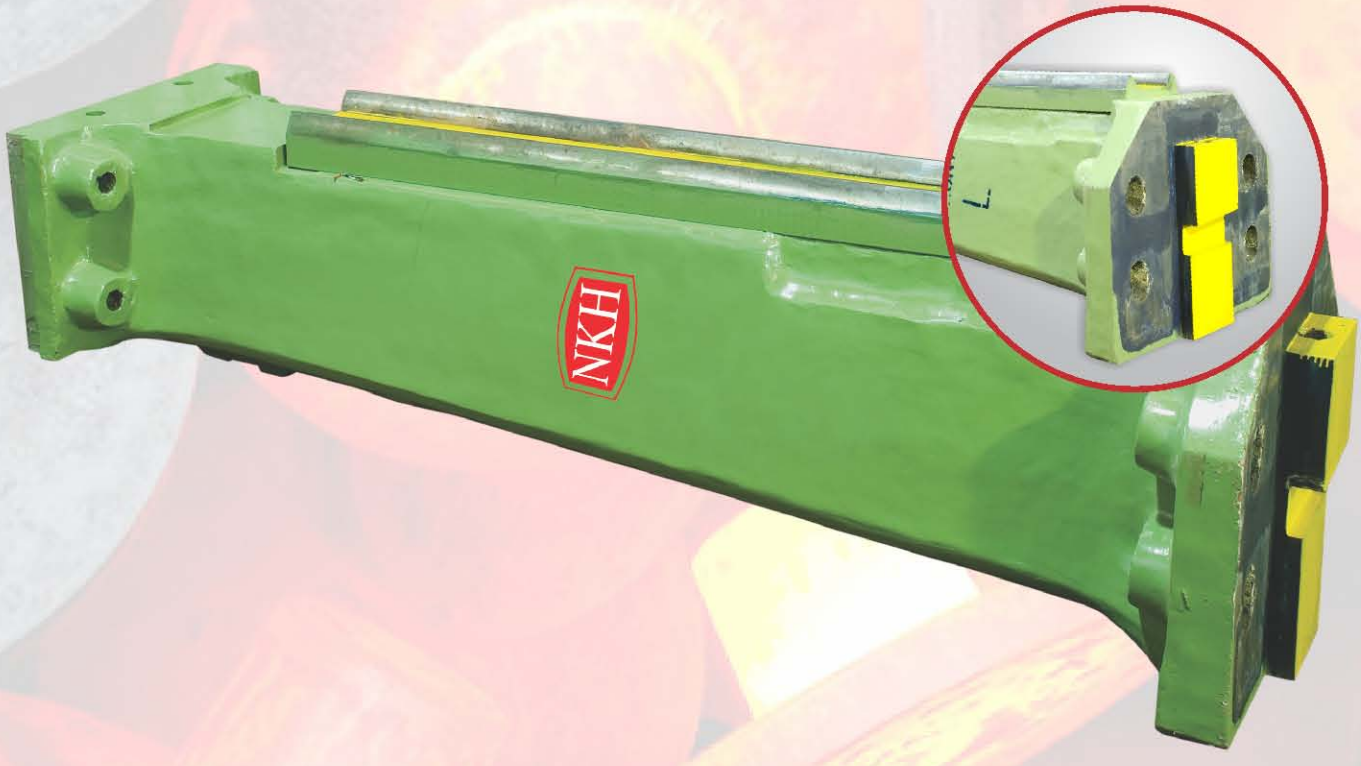
The steel casted standards have been designed with a large and heavy base to ensure maximum stability. These are positioned by a large spigote on the underside of each foot which fits into a machined recess in the anvil block. A tapered wedge locks the standard. This ensures that the standard will not twist and thus the tup is accurately guided. The sliding distance between the standard inwards, and with a drawback bolt outward. Between the standard and the tup is set with the help of a tapered wedge which drawback bolt outward. between the standards to anvil block faces, and standard to head gear faces are placed synthetic rubber mats which dampen the induced shock vibrations in the standard and head assembly thereby increasing the life of the tup and the slides and the alignment of the machine.

Standards & Slides

Standards And Slides



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PRODUCTS

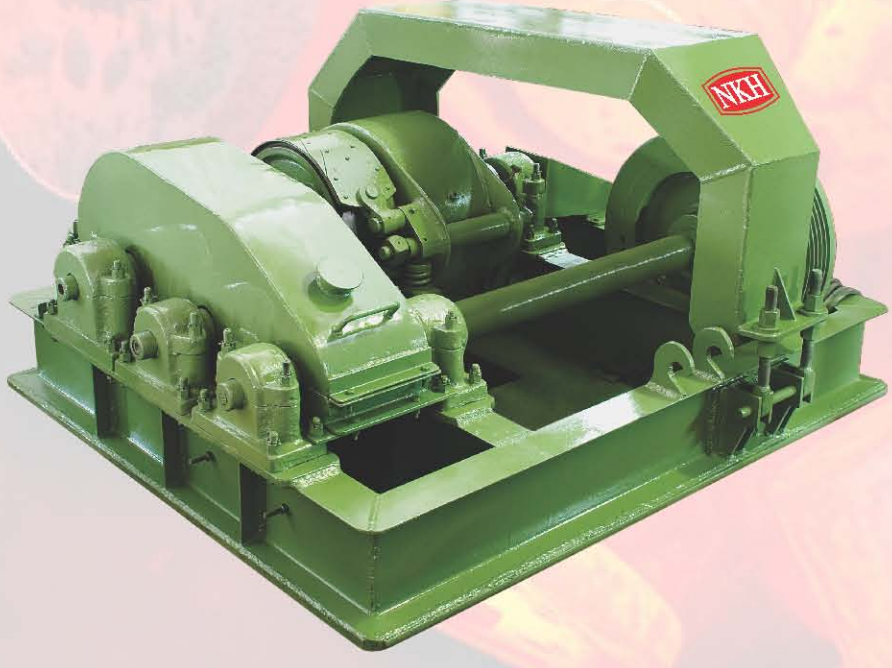
On the top of standard is mounted a headgear fabricated from rolled sections. The drive is through vee belts from a high torque AC.. Electric motor via flywheel and reduction gear to the lifter shaft. A friction lifting arrangement is fitted on the lifter shaft which runs on double ball bearing and central phosphor bronze bushes which also acts as a support. The friction lifter consists of a constantly rotating drum around which is arranged a steel band with friction lining. this band is anchored at one end to a drum stud in the lifter drum and the other end is carried by a camshaft running through the lifter drum and actuated by a lever. To this leaver is attached the pulling cord. When the cord is pulled it tightens onto the rotating capstan bush and through the camshaft causes the friction band to grim drum. There upon the lifter drum is rotated thus lifting the tup by means of a lifting belt. a buffer provides a stop for the lifter drum in its extreme position. a spring ensures free fall by immediately disengaging the friction band from the drum immediately the pulling cord is released.

Lifting Mechanisim

Lifting Mechanisim

Positive Water Cooling

Positive water cooling arrangement is provided to avoid excessive heating of the friction drum. continuous water flow of approximately 2-3 litre per minute through the shaft is required for necessary cooling action.



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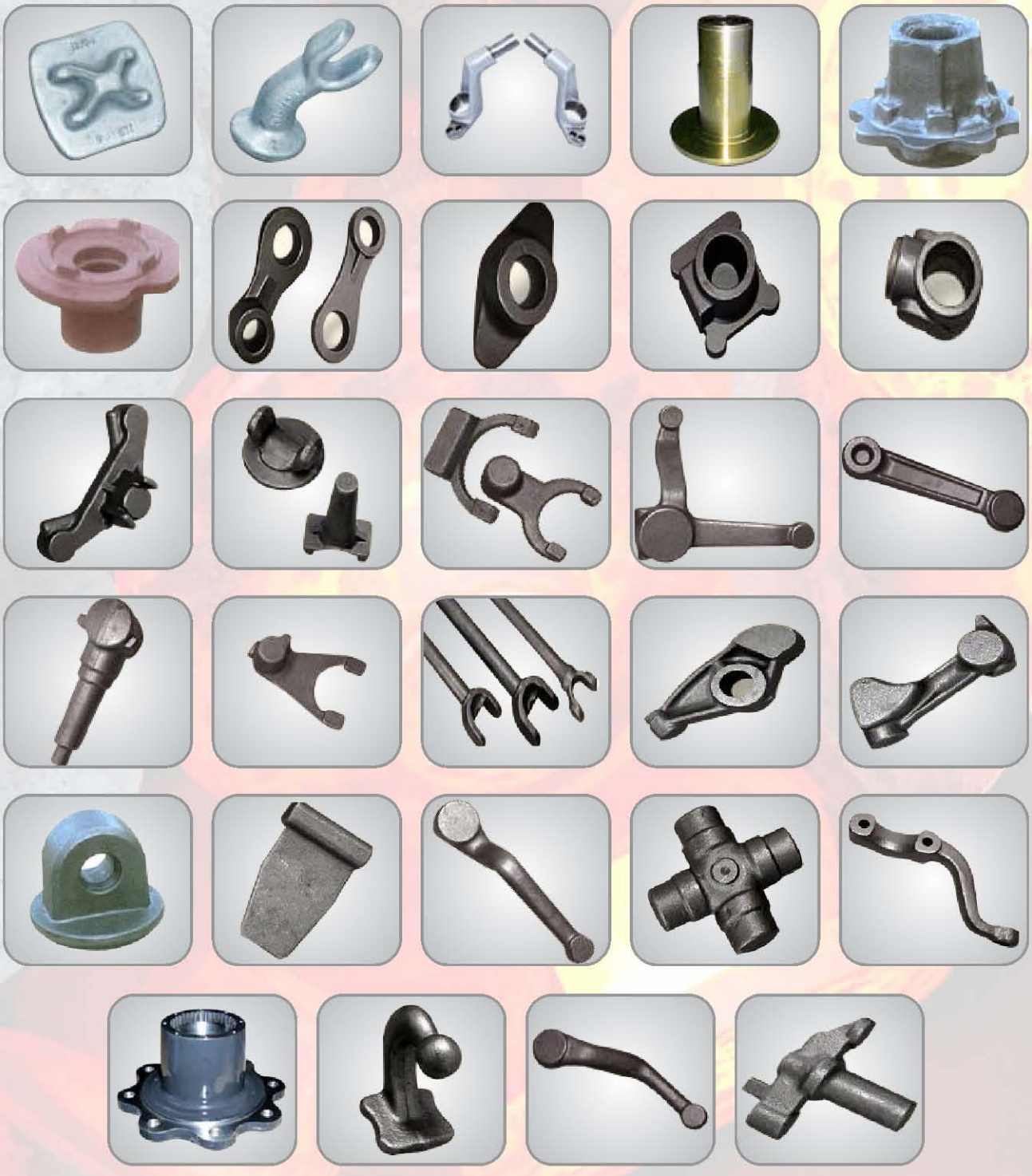
FORGED COMPONENTS ON NKH HAMMERS

Our products NKH Drop Forging Hammers of different capacity i.e from 500 kgs Capacity to 4000 kgs Capacity is giving satisfactory performance in all over India as well as in overseas market in almost all leading forging units engaged in the forging of Hand Tools, Tractor Parts, Automobile Parts, Railway Ctanks Hub, Mounting, Stud, Combine Holder, Combine Gear Holder, Gear Holder, Shafts, Pin, Oil engine parts and all different types of forgings.



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BRIDGE TYPE HAMMER

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SPECIFICATIONS

Capacity of Hammer	Measuring Unit	500Kgs	750Kgs	1000Kgs	1500Kgs	2000Kgs	2500Kgs	3000Kgs	4000Kgs
Wt. of tup	kgs.	550	850	1100	1600	2100	2600	3200	4200
Space between slides	mm	410	560	635	710	810	813	865	865
Maximum stroke	mm	1525	1675	1830	1830	1830	1980	1980	2285
Tup(front to back)	mm	355	405	432	560	610	660	740	760
Total height	mm	5100	5200	6000	6200	7000	7100	7150	7950
Max. wt. of top die	kgs.	150	225	280	475	510	650	775	875
Lifting belt	mm	203x12	203x12	254x12	305x12	355x15	355x15	355x15	355x15
Max. Number of blows	Short stroke	100	90	80	65	65	65	55	30
	Full stroke	50	45	40	32	30	30	30	20
Approximate gross weight	Tons	18	27	34	51	64	64	82	100
Electric motor	H.p	30	40	50	75	100	120	125	150
Motor rating	50 cycles	440 volts		3 phase		Slipring Motor			1440 rpm.

Technical Specifications Subject to Change with Product improvement

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N.K FORGING & ROLLING INDUSTRIES
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