INTRODUCTION

NEC ELECTROMAGNETIC HAMMERS are compact, maintenance free, operates better than any other conventional hammering system.

ELECTROMAGNETIC HAMMERS prevent clogging and adhesion of powdery and granular materials in SPRAY DRYERS, CYCLONE, HOPPERS, BINS, POWDER CONVEYING DUCTS, ETC.

OPERATIONAL FEATURES

Electromagnetic Hammer consist of a stator and rotar, which are made out of high-grade strip lamination to minimize iron losses. There are two salient poles on the stator over which excitation coils are placed. When the hammer is excited by a short duration electric pulse the rotor takes the position of minimum reluctance to magnetic path. The part movement of the rotar shaft is directly transmitted to hammer stroker. The stroker in turn hits the hopper with strong force and returns to the original position. The excitation of hammer coil is controlled by an electronic controller.

TECHNICAL SPECIFICATIONS

Data	NEC - EH - S	NEC - EH - 50	NEC - EH - 75
Rated Voltage	440VAC,50/60 HZ, 2φ	440VAC,50/60 HZ, 2φ	440VAC,50/60 HZ, 2φ
Operating Voltage Range	380 V - 460 V	380 V - 460 V	380 V - 460 V
Rated pulse current	2.0Amp	4.0 Amp	6.0 Amp
Power consumption@ 10 strokes/min	.001 Unit/hr	0.003 Units/hr	0.045 Units/hr
Impact Force	40 Kgf (min)	70 Kgf (min)	110 Kgf (min)
Weight	6 Kg	14 Kg	18 Kg

NEC ELECTROMAGNETIC HAMMERS are available in FLAMEPROOF & WEATHERPROOF construction Certified and Approved by CMRI-Dhanbad

CONTROL PANEL

A control panel with sequential timer is required for the operation of hammering system. Design of the control panel depends on the model and number of hammers to be installed on the chamber.

INDUSTRIES

Chemicals, Pharmaceuticals

Dry Powder, Fertilizers, Detergents, Resin, Bulk Plastics

Dyes & Dyesftuff

Colour powder, pigments

Ceramics & Casting

Powder, Cement, Lime

Food & Grain

Milk powder, Wheat, Barley, Corn, Rice, Flour, Salt, Sugar, Coffee, Tea.

HELPS SOLVE THE FOLLOWING

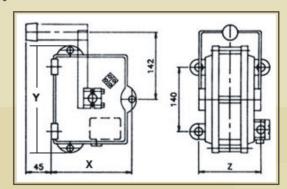
- Smooth Functioning of Downslide Low Losses, Low Down Time
- Ensuring No Sticking
- Consistent Quality, Lump Free Product
- Smooth Operation

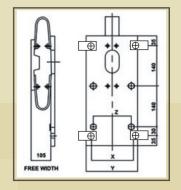
SELECTION GUIDE

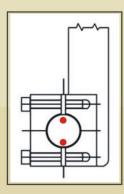
Selection of ELECTROMAGNETIC HAMMER depends on various factors such as plate thickness of chamber, design of stiffeners, type of product etc. however, as a general guide line.

- Model NEC EH S for plate thickness less than 2mm
 Model NEC EH 50 for 2mm to 3 mm
 Model NEC EH 75 for plate thickness 6 to 8 mm
 Model NEC EH 75B for heavy impact
- Number of hammers depends on surface area of chamber.

OVER ALL DIMENSIONS





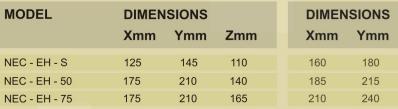


ELECTROMAGNETIC HAMMER

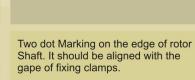
BASE PLATE

SETTING POINT

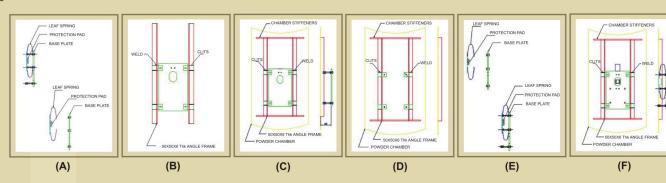
SETTING IMPORTANT



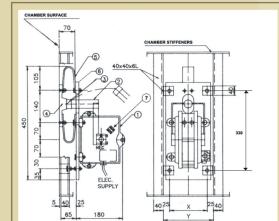
DIMENSIONS			
Xmm	Ymm	Zmm	
160	180	110	
185	215	140	
210	240	165	



HOW TO INSTALL



- Remove base plate from Leaf Spring and protection pad assembly.
- Using angle 40x40x6mm thick 1.5 m long or match the distance between two stiffeners on the Chamber, attach the base plate (with clits) to the angle. Weld four clits attached to base plate to the angle.
- Attach angle structure to chamber stiffeners keeping 65mm distance between base plate and Chamber shell.
- Remove the base plate from the structure by unscrewing the bolts. (D)
- (E) Attach Leaf spring and protection pad with base plate.
- Mount base plate assembly on the clits by tightening the bolts. When base plate assembly is attached and bolts tightened fully, the protection pad will have no gap with the chamber shell.
- Mount the Electromagnetic Hammer unit on the base plate by tightening the bolts.



(1)	Electromagnetic	Hammer.
(2)	Striking Handle.	

- (3) Striking Cap.
- (4) Protection Pad.
- (5) Leaf Spring. 6) Base Plate.
- (7) Rubber Clamp with pa

	Wodei	mm	mm
	NEC -EH- S	160	180
nd.	NEC -EH- 50	185	215
	NEC -EH- 75	210	240

Important Note:

During installation ensure that the distance between Chamber surface and base plate should be 70mm (At Top) & 65mm (At bottom) to obtain maximum efficiency.



