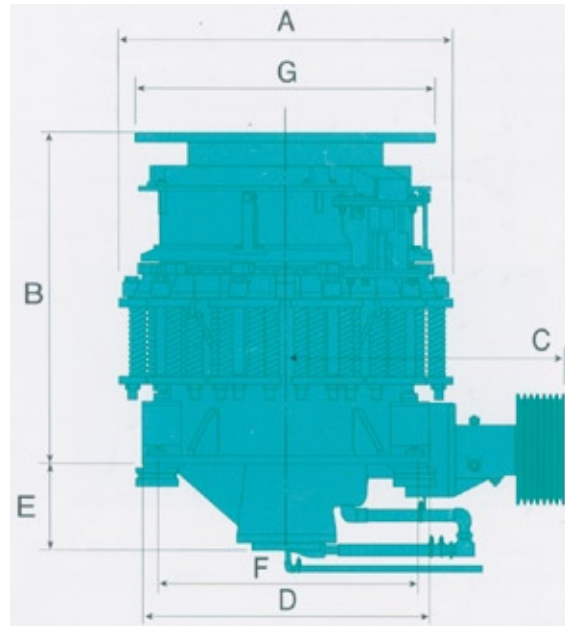


# NAKAYAMA NEO CONE

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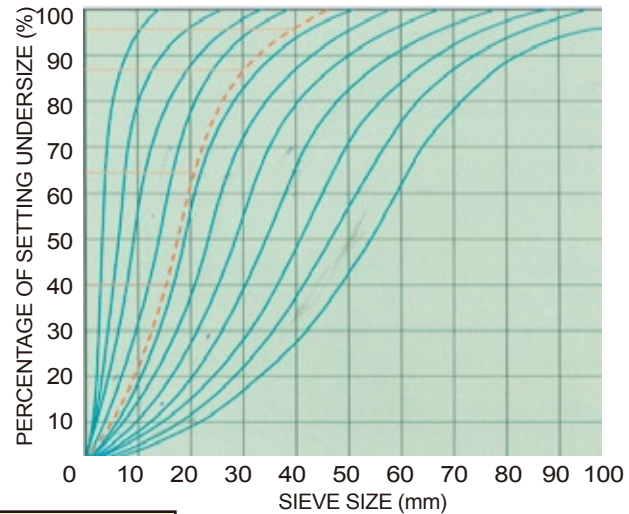
## ■ DIMENSIONS



## PERCENTAGE OF SETTING UNDERSIZE (GUIDANCE)

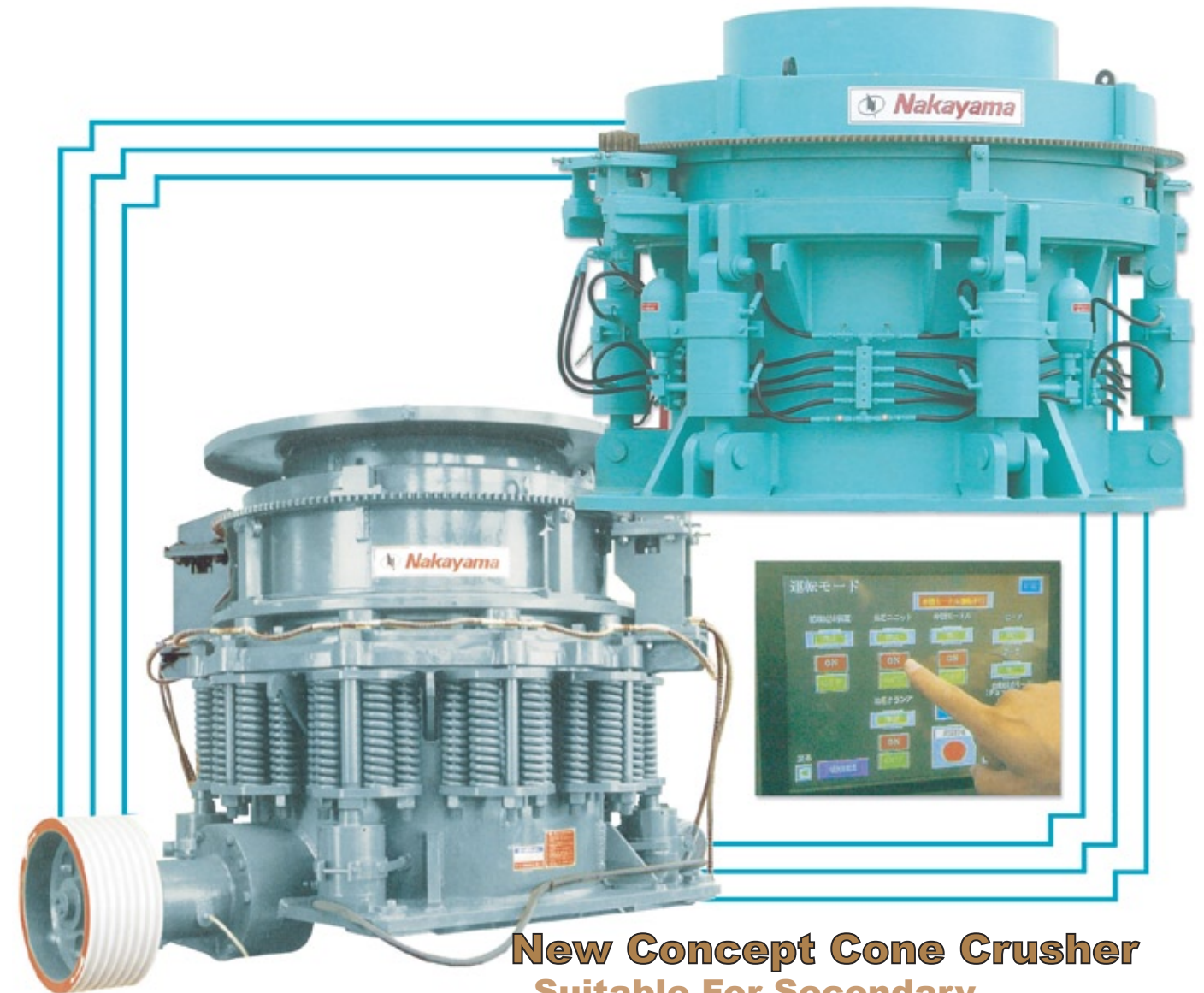
	NEC	NEM	NESH
LIMESTONE	65-75	70-80	65-85
GRANITE	60-70	65-75	65-80
ANDESITE	55-75	55-80	65-90
RIVER STONE	60-70	65-75	65-80

## ■ PRODUCT GRADATION CURVE



## ■ DIMENSIONS & WEIGHTS

MODEL	NEC40H NEM40H	NEC45H NEM45H	NEC54H NEM54H	NEC60H NEM60H
SIZE	40" (1,000mm)	45" (1,100mm)	54" (1,370mm)	60" (1,500mm)
DIMENSION (mm)				
A	1,950	2,110	2,450	2,950
B	1,670	1,700	2,050	2,430
C	1,433	1,560	1,850	2,095
D	1,530	1,760	2,240	2,450
E	345	480	580	690
F	1,400	1,580	1,950	2,200
G	1,050	1,160	1,350	1,650
APPROX. WEIGHT OF MAIN ASSEMBLY (kg)				
LOWER FRAME	5,300	8,200	15,000	24,000
MAIN SHAFT	1,500	2,200	4,100	5,600
UPPER FRAME	2,050	3,850	5,100	7,000
SHAFT HOUSING	550	750	950	1,100



**New Concept Cone Crusher**  
Suitable For Secondary  
And Tertiary Crushing Operations

## Optional LCD Touch Panel Operation Management System

- Auto Setting
- Mantle/concave Wear Indicator
- Operation Monitor
- Operation Data Recording

## NAKAYAMA IRON WORKS, LTD.

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**NAKAYAMA IRON WORKS, LTD.**

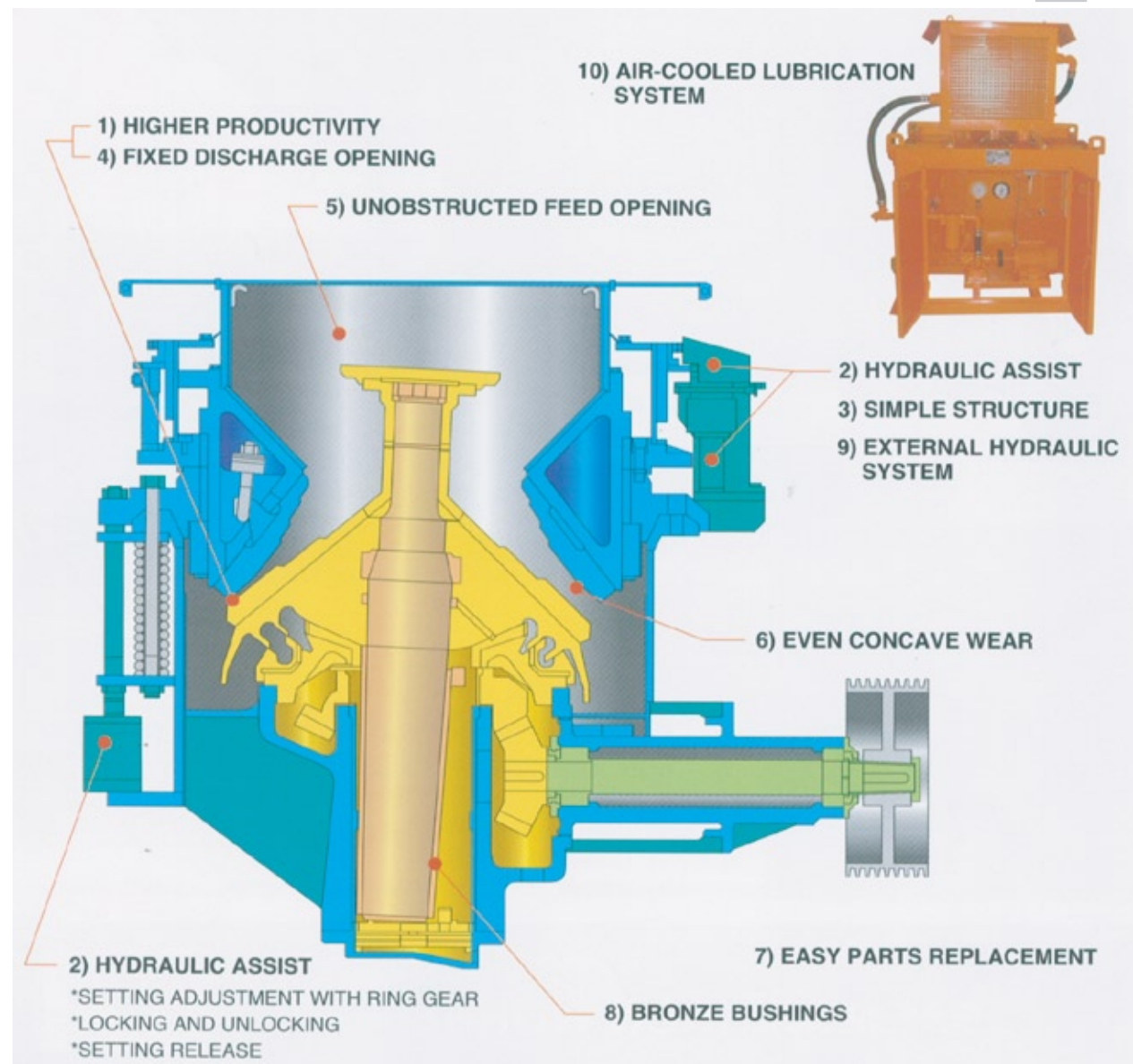
# NAKAYAMA NEO CONE

Developed to meet the demand for higher production, easy maintenance and service with minimum investment cost, this NE series of new cone crusher is the new-age cone crusher with hydraulic assist mechanism on the time-proven, reliable mechanical cone crusher. Optional electronic LCD touch panel assures easy operation and maintenance and it also gives machine operation data and maintenance information for maximum operating efficiency and operation management.

## OUTSTANDING FEATURES

Heavy-duty, new concept, spring-loaded mechanical cone crusher with hydraulic mechanism for continuous, instant setting adjustment and setting release for top productivity. The crusher is best suited for secondary or tertiary crushing stage. An ideal crushing chamber configuration with optimum and powerful crushing movement and an unobstructed feed opening in a rugged crusher body assures peak production. Simple machine structure and hydraulic system provide minimum maintenance.

## COMPONENTS WHICH MAKE UP THE ROTOR



### 1) Higher productivity

Greater eccentric throw (30-50% larger than our conventional model) with moderate, optimum speed gives powerful crushing motion for larger capacity and reduction ratio. Wider mantle angle allows the material to stay longer in the crushing chamber for better product shape. Moderate speed assures longer life than other high-speed crushers.

### 2) Hydraulic assists - Quick setting, quick recovery for minimum downtime

- 1) Hydraulic setting adjustment with ring gear
- 2) Hydraulic locking and unlocking
- 3) Hydraulic setting release

The hydraulic assisted system keeps top productivity. Easy, continuous and quick setting adjustment with hydraulic motor driven ring/pinion gear and hydraulic locking/unlocking system give instant adjustment to the desired setting. Hydraulic setting release helps to recover from jamming of material in case of power failure, etc. External hydraulic system allows easy maintenance and servicing.

### 3) Simple structure

Time-proven, spring-loaded, mechanical cone crusher inner parts are easily accessible, assuring easy service and repair with usual tools.

### 4) Fixed discharge opening

The discharge opening is not floating on the oil but mechanically fixed on the thread to give consistent product gradation.

### 5) Unobstructed feed opening

No spider arms to block the material at the feed opening for keeping top productivity.

### 6) Even concave wear

The concave rotates at every setting adjustment to give even wear on the whole circumference of the crushing chamber, avoiding premature replacement.

### 7) Easy parts replacement

Mantle, concave and major inner parts are easily accessible by starting hydraulic motors to rotate the upper frame to remove, minimizing downtime. There are no time-consuming, thick frame joint bolts to loosen. No backing material is used for mantle and concave also for minimum downtime.

### 8) Bronze bushings

Bronze bushings are much more resistant to tremendous crushing loads under dusty crushing condition than roller bearings. Time-proven, reliable bushing design is used where heavy loads are applied. The fast-running counter shaft is supported by roller bearings in the separate oil bath system. The bushing design enables the customer to carry out field-repair.

### 9) External hydraulic system

There is no complicated hydraulic mechanism inside to worry about aging and leaking. The external hydraulic system on the basic crusher allows easy maintenance and servicing.

### 10) Air-cooled lubrication system

The air-cooled lubrication system eliminates water tank, water pump and piping. Virtually maintenance-free oil cooling system assures longer life and cuts down the maintenance and care on the water system. The crusher motor can be electrically interlocked and protected against oil problems such as high oil temperature and poor oil delivery.

## SPECIFICATIONS

MODEL	FEED OPENING × MANTLE DIAMETER (mm)	MAX. FEED SIZE (mm)	RPM	WEIGHT (ton)	POWER (kw)	CAPACITY(TPH) AT DISCHARGE SETTING (CSS)									
						16	18	20	23	25	30	35	40	45	50
NEC40H	205 × 1000	100 × 140 × 200	680	10.8	90~110	120	135	150	170	185	210	235	260		
NEM40H	130 × 1000	75 × 85 × 125				105	120	135	150	165	180				
NEC45H	220 × 1100	105 × 150 × 215	680	14.8	110~150			170	190	205	235	265	295		
NEM45H	150 × 1100	75 × 100 × 145				120	135	150	165	180	195				
NEC54H	250 × 1370	125 × 175 × 250	620	25.5	132~190					260	290	320	350	390	440
NEM54H	150 × 1370	75 × 105 × 150						160	180	200	225	260	290		
NEC60H	305 × 1520	150 × 210 × 300	580	38.5	190~250					310	340	375	415	460	520
NEM60H	180 × 1520	100 × 125 × 175								235	265	300	320	350	

Note: 1) The capacity is based on the open circuit of clean, dry materials with a bulk density of 1.6 Ton/M<sup>3</sup>.

2) The capacity may vary by ±25% depending on the operating conditions, such as the method of feeding, weight, cleanness, moisture contents of the materials, its fracture pattern, etc.