COMPLETE CRUSHING & SCREENING PROJECTS

HARCHEM ENGHINEERING COMPANY

Manufacturers & Exporters of :

Jaw crushers, conveyors, Screens

(Rotary & VIBRATING) AND FABRICATION WORK

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[1:50 PM, 12/29/2018] shekhawat: HARCHEM ENGINEERING COMPANY is continued to serve the customers for their

requirement of different types of jaw Crushers as well as other material reduction equipment,

like Roll Crushers, Granulators, Rotopactors. Impactors, Coal Crushers, Loaders, elevators,

Conveyors, Vibratory & Rotary Screens.

HARCHEM also undertakes complete Turnkey Projects of Crushing and Sreening Pants. .

Our rugged equipment with exclusive features will increase efficiency and add to your

profitability, as down time will be considerably low. From time to time many improvements have

been incroporated to our designs, since the original conception. to make HARCHEM most

efficent as on date. The company always supplies replacement parts. as well as regular

services to customers. HARCHEM a wel known name in northern India and exported to

rew countries too. Now under the expansion program, wish to introduce its products to

other parts of india and neighboring countries.

[2:38 PM, 12/29/2018] shekhawat: HARCHEM Jaw Crushers are heav duy

Single/Double toggle design having Greass

lubrication system. These crushers are

designed for long life service with minimum.

maintenance for hard, tough and principal of

crushers is on the basis of compression on rock

against metal.

STANDARD SPECIFICATIONS:

STEELBOY

The Body of Jaw Crusher is fabricated from

mild steel plates of adequate thickness, with

reinforcing members welded in place. The

yomplete frame is steers relieved for trouble free performance.

IAWPLATES

The Jaw Plates, reversible type are casted out of best quality 12-14% Manganese steel of

ne piece construction conforming to IS-276 specifications. The setting of Jaw Plate is

arried out by simple adiustment with tie rod at the bottom of the sawing Jaw stock. the

etting is altered and adiustment can be made without stopping the machine.

-PITMAN

he pitman is fabricated from MS plates alternatively casted in single piece duly machined.

Iis designed to receive large size anti friction bearings and provision is made for regular .

sease lubrication.

OGGLE SYSTEM

The toggle system is of four bearing type. Front and Rear toggle plates are of steel and ride .

in machined M.S. Bearings seated in the Swingjaw, Pitman and toggle block.

ECCENTRIC SHAFTAND BEARING

The eccentric shaft is of special steel and carried in seli-alinged double row spherial.

bearings, which ensures smooth running. The bearing are filted, one in each side of bdy.

and two in swing iaw stock, well Sealed against possible entry of dust and moisture by a system of labyrinth seats.

[2:41 PM, 12/29/2018] shekhawat: FLYWHEEL

The flywheels are made of solid grey cast iron and grooved for V-Belt driv .

CAPICITY AND POWER REQUIREMENT FOR DIFFERENT MODELS OF

JAw CRUSHERS IS GIVEN AS UNDER (Based on Bulk density 1600 kg/cu.m.

3apacilty in tons per hour with Jaw setting ol

-eod I

3HD

Szo In lnch

n Iinch) I amal 25 mm 40 mm I 50 mm I 60 mm I 75 mm 100 mm 125 mm 150 m I175 m Bn rm .

iA tmm

1256 I

7"X12"

1 1

1 75X300

g"X16"

925X400

10X20"

960X500

12"X24"

a00X600

40 1

15"X30"

075X750

19x36

100 I

10n1 42S

450X900

500 1

24"X36"

100

600X900

20"X42"

145

600X1070

20"X48"

170

200

600X1220

10) 1

36"X42" 800

a00X1070

12K

1070X1220 1 42"X48" 1000 1

CAPICITY AND POWER REQUIREMENT FOR DIFFERENT MODELS OF

GRANULATORS IS GIVEN AS UNDER (Based on Bulk density 1600 kglcu.m. )

-a acitv in tons ner hour with Jaw settina of

Feed

size in Inch

size

In (inch)

In (mm)

50 mm

50 mm

40 mm

75 mm

25 mm

30 mm

tmm)

500x150

20"x4"

75 mm

600X150

24"x6"

100 mm

750x150

30"6"

100 mm

36"K6"

900x150

100 mm

42"xG"

1070x150

100 mm

. En I

1070x200

42x9r 1 150 mm

1220y2n0

4g"kg"

I5o mm

[2:43 PM, 12/29/2018] shekhawat: RUSHEE

ay as an iseue e

om

rith

as secondarv/tertiary crushers for smaller

fraction. The two parallel roller shells are rotated

in opposite directions and material is crushed in

between on pressure compression principal.

STEELBODY

I Box type frame is made out of M.S. plate

squares rivetted to main frame. The top and side plates are boted to main frame.

ROLLERS

Out of two rollers, one is stationery and the other is adiustable. T he rollers are made oi

chilled iron/high carbon steel/manganese steel depending upon the requirement.

SUPER GEARS

Super gear is mounted on shaft of each roller. This gear is driven by pinion, pueys an.

inally by motor, We also make roll crusher on bearings direcily coupled with motors.

[2:43 PM, 12/29/2018] shekhawat: CAPICITY AND POWER REQUIREMENT FOR DIFFERENT MODELS OF ROLL-

CRUSHERS IS GIVEN AS UNDER

Feed size

RPM of the Roll

Roll Crusher size

Power required in 1

Capacity per hour of • and dwt \*z

In (nch)

(H.P.)

tn /m)

16"x24"

50 mm

4n00x600

16"x30"

50 mm

a0x750

16"32"

50 mm

200600

600

50 mm

00x650

650

16036"

75 mm

A00x900

750

16"038"

/ mm

aa0x950

22"x24"

75 mm

:A0x850

22"x38"

75 mm

1000

6Ox950

2040"

75 mm

1200

1000

1x000

[2:44 PM, 12/29/2018] shekhawat: Rotooactor to desianed and build to hande

paricles to the desired size cuickly and

efficientlv. The product oroduce by the

Rotooactor is technically and comforably \_

acceptable to any authority be it NHAl, MOST

OR DAM Construction. It is on the principal of

Impact crushing with stone to metal breaking ak.

high speed

Machine Modelf

Marimum

Speed RPM

Feed Size

Weight in

Power

Approx.

Capacifty

Maximum

Approx

Approx

100O RPM

3000 KG.

50 - 75 HP

HARCHEM - 800

50 TPH

125 mm

1300 RPM

[2:46 PM, 12/29/2018] shekhawat: NuSCREI

HARCHEM manufacture's Vibrating screens in

different models having single, double and triple

deck, and Rotary Screen depending upon the

requirement of customers. These screens are

heavy-duty type working on the principle of circular

motion and designed for long life maintenance-free

service.

J STANDARD SPECIFICATIONS:

BODYFRAME

The main frame is fabricated from M.S. Plate,

ingles and pipe and is welled construction with feed and discharge hoods as integral part.

SCREEN PLATES

The screen plates are drillediperforatediwire woven panel of appropriate size for proper t

separatin of desired product. The screen platelwoven wire panel is bolted to cross

nembers conecting to side plate with necessary HT bots, Nyloc nut and washers, U-

• clamp are generally used for fixing screen performed plate.

[2:47 PM, 12/29/2018] shekhawat: VIBRATOR ASSEMBLY

The vibrator assembly comprises of electric shaf, unbalancing weights, driven VPule.

bearings, housing and central pipe casing. The shait is housed in the assembly with covrs.

The perforated plate is fixed on the frame with U-clamps. The complete screen is rested on.

set of coil springs and steel frame.

CONVEYOPe

We are supplying conveyors in different

desianes as per the space available at site

and to accommodate the requirement of the .

customer. The head and tail pullevs are wide

faced and turned on anti-friction bearings.

\*r"

Convevor idlers and accessories supplied for

•ktt—s .

-.

easy assembly. Drive to convevor pullev is bv

motor and aear box further reduction if

a

required bv chain and sprocket.

[2:48 PM, 12/29/2018] shekhawat: I LOADER

HARCHEM makes loaders in different models '

used for crushed material into trucks and I

saving a lot of time and manpower. The l

loaders are portable and can be driven to a l

desired place. The unit is mounted on portable I

trolley and is driven by motorlengine. Height is

adijustable to meet the truck height.

[2:49 PM, 12/29/2018] shekhawat: OOther Associated Equipments :

I. Sand classifier for wishing sand

2. Bucket Elevator

O. Screw Conveyors

4. Slat Conveyors

5. Automatic Deflector

6. Moveable Belt Trippers

7. Steel Fabrication