

MAIN FEATURES:

- Compact heavy steel construction,
- Solid feeding hopper, 3 hinged side walls
- Feeding chute with integrated grate for primary screening, separate discharge of the pre-screened material possible, alternatively by-passing the crusher
- Vibration chute below the crusher, hereby easy feeding and a long durability of the discharge belt conveyor.
- Especially constructed impact mill (approx. 12,6 t) with rotor diameter (1300 mm) for a high capacity and a long lifetime.
- All drives electrical
- Electrical interlocking of all functions also to screening plants, conveyors etc. installed there after.

TECHNICAL SURVEY:

Feeding material:

Rubble, concrete rupture, asphalt rupture, natural stones up to max. 900 x 750 mm

Feeding capacity:

up to 250 t/h depending on the kind and composition of the feeding material and size of prescreening resp. size resp. quantity of the final grain size

Crushing Capacity:

up to 160 t/h concrete/rubble,
final grain size 0-56 mm with approx. 10-15% oversize

up to 160 t/h asphalt rupture,
final grain size 0-32 mm with approx. 10-15% oversize

up to 200 t/h limestone,
final grain size 0-100 mm with approx. 5-10% oversize

Transport Measurements:

width: <i>2990</i>	max. 2990 mm
height: <i>3600</i>	approx. 3600 mm
weight:	approx. 40 t without options
transport height:	approx. 4200 mm transport by means of semi-trailer (bed height 600 mm)

PLANT IN PARTICULAR CONSISTING OF:

Item 1

1 feeding hopper

approx. 4 m³, mechanically tilting

Feeding width: approx. 2350 mm on the face
Feeding width: approx. 3500 mm side walls

Feeding height during operation: approx. 4540 mm

Item 2

1 vibration feeding chute ARUM 9,5/40R

with integrated grate insert

trough: width 950 mm x 4000 mm long

slotted grate: medium gap setting 40 mm

construction: canted trough out of 8 mm basic sheet metal, 15 mm bottom-, 10 mm lateral wear lining out of wearing sheet metal (Hardox)

drive: double unbalance motors 2 x 3,5 kW

Item 3

1 impact crusher SHB 10-90

feed opening: 1020 x 900 mm
rotor diameter: 1300 mm
rotor width: 1000 mm

rotor ledges : 4 pcs. (weight approx. 268 kg/each)
out of martensitic hard steel
for rubble and concrete rupture

housing: hydraulically tilting with lateral maintenance doors and at the rear wall

rotor shaft: running in sufficiently dimensioned self aligning roller bearings with grease lubrication

- lateral wearing sheets: out of Hardox
- front impact toggle: with reinforced, removable impact plates, out of manganese hard steel, liftable during operation by means of 2 hydraulic cylinders, hereby possible obstructions in the front impact space can be eliminated
- rear impact toggle: with reinforced, removable impact plates out of manganese hard steel, can be adjusted quickly by means of prestressed springs and hydraulically actuated adjusting- and supporting device without efforts
- V-belt drive: executed for drive by means of el.-motor 110 kW with V-belt pulley, V-belt protection
- rotor circumferential speed.: approx. 35 m/s (other rotor speeds on demand))

Item 4

1 vibration discharge chute ARUM 9/26

6° inclination with 2 levels

dimensions of through: width 900 mm x 2600 mm long

construction: trough with step,
basic sheet metal upper level 15 mm
lower level 10 mm, side walls 5 mm

Hardox wear lining, upper level 10 mm
lower level 15 mm, 10 mm for side walls

drive: double unbalance motors 2 x 1,7 kW

Item 5

1 belt conveyor

main discharge belt conveyor

series: profile steel construction

axle distance: 7,6 m

belt width: 1000 mm

discharge height: approx. 3300 mm

drive: detachable gear motor 7,5 kW
with return lock

**Item 6
chutes**

consisting of:

1 crusher inlet case

execution:

with hinge and laterally mounted hydraulic cylinders,
in order to feed the crusher with big and long parts,
the cover, together with rubber- and chain curtain,
can be lifted for a short time during operation

1 screen underflow chute

mainly out of 5 mm sheet metal with covering and casing

1 crusher outlet case with chute support

screwed at the discharge flange of the impact
crusher, with removable wearing sheets

Item 7

1 steel construction

for supporting the machines and installations

framework in welded resp. screwed design manufactured
out of profile steel

supported on tubular supports with enlarged foot plates
for the installation on compressed ground

consisting of:

- ladders, catwalks and railings
- platform covers out of bulb plates

Item 8

1 electrical switch- and control unit

1 wall switch cabinet with main switch 400 A
as well as outlet 125 A for current supply resp.
interlocking of additional machines like e.g.
Portiscreen by means of the electric control unit of the Portirex unit

working voltage: 400 V, 50 Hz

control voltage: 230 V, 50 Hz

control transformer as well as working hour meter for the generator
and the impact crusher, with current- and voltage measuring instrument,
monitoring switch as well as current relay; the material feeding will be
switched off in case of overcharge of the crusher drive motor, flash
light for the functions "start warning", "fault indication" and "automatical
switching off in case of overcharge of the crusher",

start warning with start-time relay,
with additional sockets 32 A, 400 V, 16 A, 230 V for maintenance
works as well as outlet for light and socket outlet 5,5 kW for an
additional belt conveyor,

all switchgears and fuses are executed acc. to the operating
conditions "Schwere Schaltbedingungen" and UVV

Item 9

1 variable speed drive for feeding chute

for the continuous regulation of the number of
rotations and the conveying quantity by potentiometer,
incl. frequency control device

Item 10

1 remote control for feeding chute

with function "feeding chute on"
resp. "off" with "off" for the whole plant

Item 11

1 belt conveyor

lateral discharge belt conveyor (prescreened material)

series: profile steel construction

axle distance: 5 m

belt width: 650 mm

discharge height: approx. 2900 mm

drive: detachable gear motor 3 kW
with return lock

Item 12
1 swivelling arm for impact crusher

for chain hoist 500 kg

for removal of rotor ledges (*however without hoist*)

Item 13
1 permanent magnetic separator

electrical capacity: 370 - 425 mm Gauß with a
distance of 200 - 225 mm to the rubber belt

drive capacity: 1,5 kW

for diagonal discharge for belt widths up to 1000 mm

supporting frame for the magnet with the necessary
fixing material like chains, iron discharge chute etc.

incl. electrical connection at the switch cabinet and wiring

Item 14
1 spraying system

- in low pressure execution -

With low pressure nozzles (installation at the crusher
inlet and outlet and at the discharge of the belt conveyors
as well as at the feeding point from screen to conveying chute).

System in detail consisting of a low pressure pump
(suction height max. 5 m), low pressure nozzles with
accessories and the necessary distribution blocks .

*The price is only valid, in case the installation can be
effected in connection with the erection of the plant.*

The customer has to provide:

Water tank with the resp. content for the usual daily
requirement resp. fresh water connection with max.
3,5 bar pressure