REMAS
REDÜKTÖR ve MAKİNA SANAYİİ ANONİM ŞİRKETİ

BODY PREPARATION

DEPARTMENT FOR

TILE FACTORY

Customer:
NAEEN TILE
IRAN

OFFER NO: TK.043-1B
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04. DESCRIPTION OF MACHINES

4.2. Continuous mill feeding department

4.2.10 1(*) Mill feeding hopper

Steel construction
24 m^3 capacity

4.2.20 1 High level detector

4.2.30 1 Intermediate level detector

4.2.40 1 Low level detector

4.2.50 1 Mill feeding system

1 4.2.60) Extractor belt feeder system

Flow rate	: 6 – 20	t/h
Belt width	: 1000	mm

2 load cells
1 encoder
1 belt flow transmitter installed in the control panel

1 4.2.70) Mill feeding device

Pipe type, to introduce in the mill all the solid, installed in a movable car

4.2.80 1 Max level detector for mill feeding device

4.2.90 1(*) Liquid deflocculant storage tank

4.3. Slip Preparation Department

4.3.10 1 Continuous Mill RCM71

Continuous Mill for rubber lining and alumina balls

Motor power: 2x250 kW

Each module is composed of:

- The mill body is designed with a cylindrical mill shell with one chamber, complete with manholes, in electro-welded heavy gauge steel plate, prearranged for rubber coating assembling;

- Continuously loading and unloading of the mill;

Mill drive:
The mill drive is executed via V belt and pulley, which is supported via self-aligning roller bearing in nodular cast iron pillow blocks. The pulley is connected to the 2 stage helical gearbox by a coupling.

Descriptions:

Mill Body

The mill body is formed of a cylindrical mill shell.

The mill head is made with integrated trunnion for the bearing housing.

V-belts operation area on the mill drum are reinforced by double layers of steel sheet and machined on the surface to minimize the run out.

The mill body is sandblasted and than painted with two layer final paint.

Mill shell

Technical description:

Mill shell is designed with manhole. Mill shell in area of flange completely mechanically machined and bored to be bolted together with the mill heads.

Before final machining the mill shell will be stress relieved as one piece by heat treatment.

Material:
Mild steel for shell plate S235JR2

Mill Heads

Technical description:

The mill heads are designed to be precisely machined and assembled to the mill shell. The bearing trunnion is designed for a self aligning roller bearing with cylindrical seating.

Drive Unit

Main electrical motor:.

3ph , Squirrel cage , Asynchronous Motor

Elastic coupling:

It is used an elastic coupling between electrical motor and main gearbox.

Main gearbox:

Main gearbox is manufactured by Remas. Gears are made of DIN 17CrNiMo6 quality cementation steel and after heat treatment, profile of the gears are grinded.

Main gearbox output elastic coupling:

Elastic coupling, which is manufactured by Remas, is used on output shaft of main gearbox for the torque transfer.

Pulley system:

V belts of European Origin
Cast iron pulley
Pulley axle is made of SAE 1050 or SAE 1040 steel
Double row self aligning ball bearings.
Cast iron ball bearing housing.

Chassis for drive unit:

It is made of steel profiles and all drive parts are placed on.

Mill support (roller bearing)

General

The mill is supported by two grease lubricated self aligning roller bearings with bearing housing. The bearing housing are assembled on base frames.

Main bearing

Technical description:

Main bearing, designed as a roller bearing. This self aligning roller bearing is foreseen to be lubricated by a central grease lubrication unit. The bearing is mounted on the trunnion of the mill head and kept in position by a pressure ring.

The bearing housings are made in welded design of mild steel. The outlet bearing is designed for a floating bearing and the inlet bearing house for fixed bearing. Both housing are machined for covering the bearing and sealing surfaces as well the contact surface to the base frame.

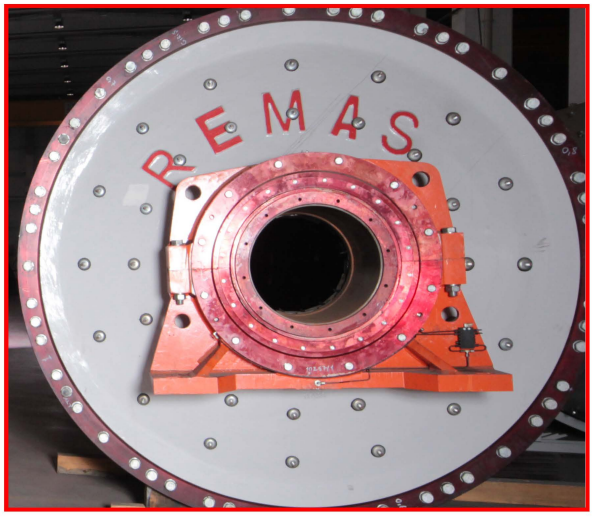
The bearing housing are equipped with special grease lubricated double lip shaft seals to prevent entering ambient dust.

Automatic Lubrication of the mill main bearings are at each bearing housing a grease metering is mounted to provide the grease distribution to the seals and to the bearing.

Main Bearing Frames

Technical description:

The main bearings are assembled on base frames, which is designed in welded steel construction and mechanically machined on the upper side. The base frames are equipped with adjusting and leveling spindles for easy alignment.



Protection devices

General

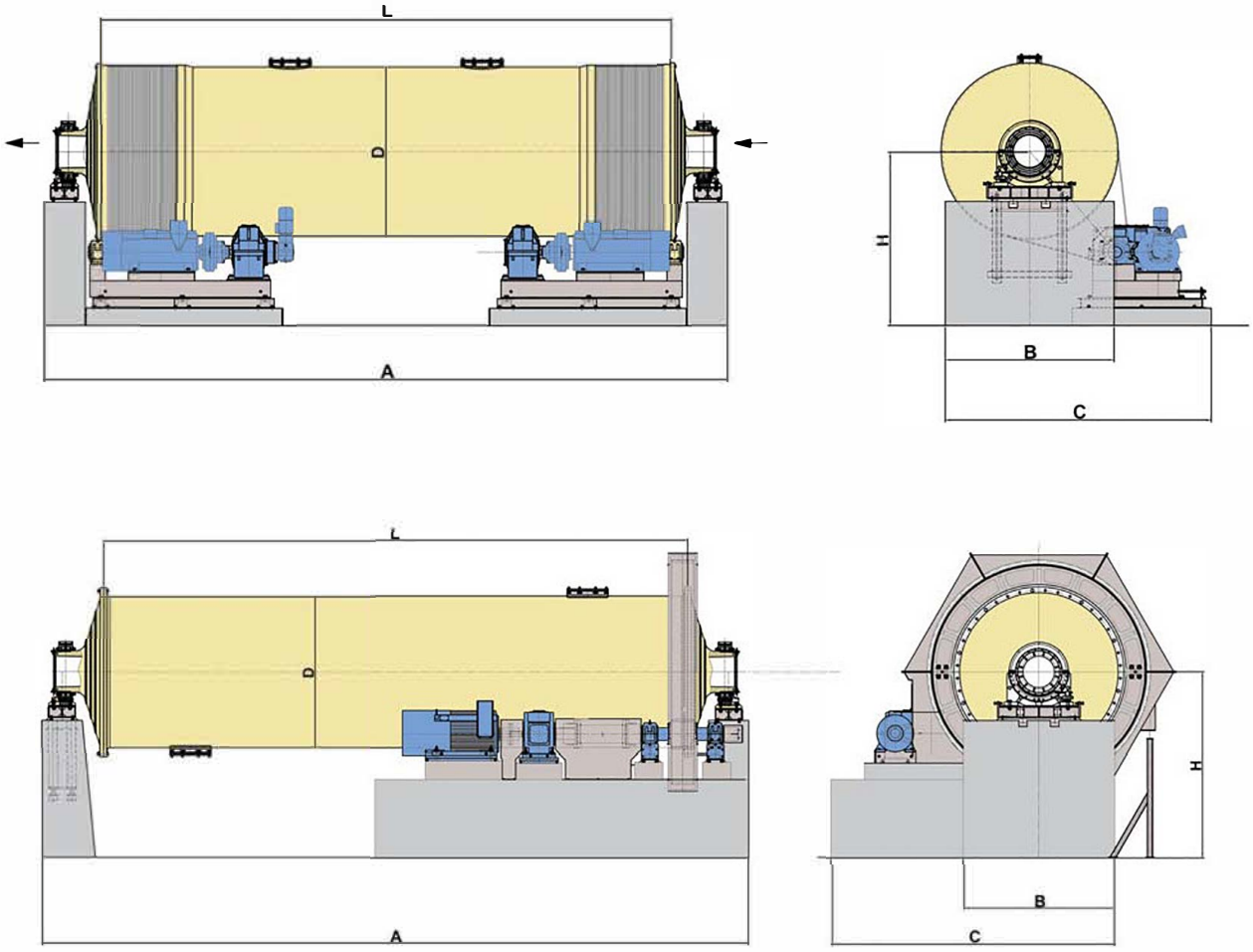
All rotating parts (except mill body) like gear couplings will be covered by safety covers to prevent touching.

Coupling protection devices

Technical description:

Coupling protection devices made of rolled-up steel sheets.

CONTINUOUS CYLINDRICAL MILLS
KONTİNU SİLİNDİRİK DEĞİRMENLER



Type	Motor power for flint pebbles	Motor power for alumina balls	Mill Speed	DIMENSIONS (mm)					
	(kW)	(kW)	(r.p.m.)	D	L	H	A	B	C
RCM 035	1x200	1x250	18,0	2.200	9.500	3.000	11.000	2.300	3.250
RCM 040	1x250	1x315	18,0	2.200	11.200	3.000	12.500	2.300	3.500
RCM 050	1x315	2x200	16,0	2.550	10.600	3.500	12.600	2.500	4.300
RCM 060	2x200	2x250	16,0	2.550	13.000	3.500	15.000	2.500	4.300
RCM 070	2x250	2x250	14,0	2.800	11.460	3.500	13.500	2.500	4.450
RCM 080	2x250	2x315	14,0	2.800	13.000	3.000	15.176	2.500	4.500
RCM 090	2x315	2x355	12,5	3.050	12.000	3.000	14.071	2.500	4.600
RCM 100	2x315	1x800	12,5	3.050	14.500	3.500	18.800	3.100	4.900
RCM 125	1x800	1x1000	12,0	3.050	17.800	3.500	19.100	3.100	5.500
RCM 165	1x1000	1x1250	10,5	3.600	16.700	3.500	19.800	3.200	6.000
RCM 200	1x1250	1x1500	10,0	3.850	18.100	3.500	20.000	3.200	6.300

* Dimension at the table may vary depending on lay-out and production changes.
* Tablodaki ölçüler yerleşim düzeni ve üretime göre değişiklik gösterebilir.