

Application Report No. A 02-3e **Roll Adjustment in Steel Mills**

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Status: 03/2005

S.Smets



The rolls in steel mills are hydraulically "adjusted".

The hydraulic medium for this application is 95/5 emulsions (HFA), on the basis of 95% water and 5% oil.

The pressure which is required for the system is provided by KAMAT high pressure units.

As a rule of thumb, pressures between 165 and 225 bar are required.

To eliminate pulsation in the system, high pressure pulsation dampeners are supplied by KAMAT and fitted on the discharge side of the pump units.



Photo above:

Steel mill of the MITTAL Steel Group in Romania. View of the reversing stand of the wide strip mill.

Photo on the right:

KAMAT high pressure unit in the machinery room of the rolling mill.

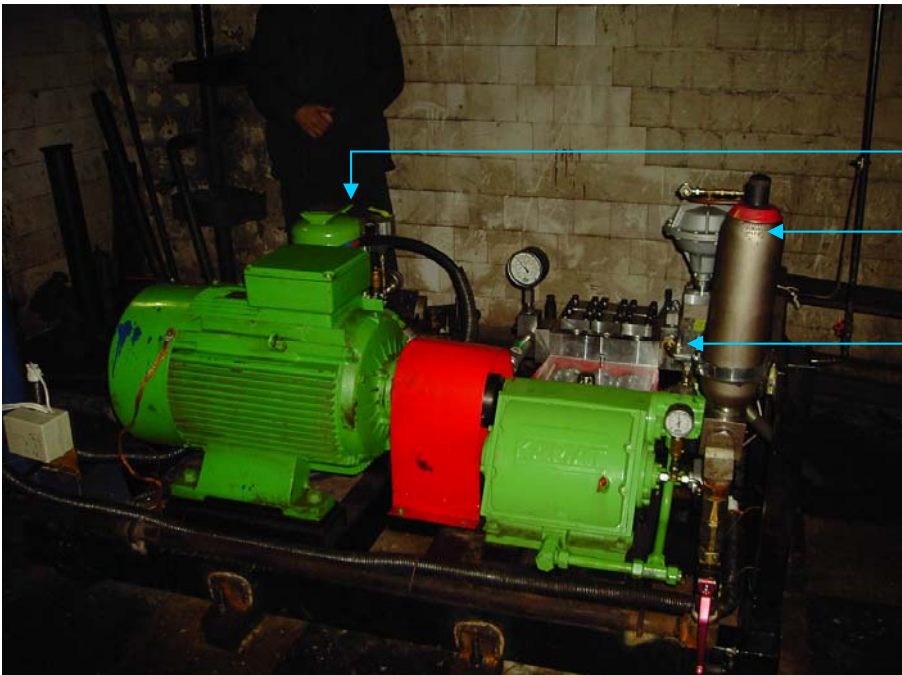
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KAMAT High Pressure Unit with electric motor

- Suction stabilizer
- High pressure pulsation dampener
- Pneumatic on/off valve

Photo on right:

KAMAT machine after extensive duty over a period of several months.

The units are running up to 8000 operating hours per year.

