

TUBE-MILLS AT GUANAJUATO

(August 17, 1907)

The Editor:

Sir—As to our experience with our tubes: Apparently it has been markedly different from that of a good many people, and we really do not understand the reason why, as we have had no difficulty whatsoever, aside from routine replacements in the eight or nine months we have been running them. These mills, as you know, are the Abbé mills, 4 ft. 6 in. by 20 ft., and are handling about 80 tons of pulp per day.

A screen test made on pulp going to the tube-mill shows:

	Mesh.	Per Cent
Remaining on	10	11.2
"	50	11.2
"	60	8.9
"	80	16.6
"	100	16.3
"	120	26.1
Passing	120	9.7

Moisture 60 per cent.

The screen test on discharge-pulp shows:

	Mesh.	Per Cent
Remaining on	10	0.5
"	50	1.7
"	60	2.9
"	80	6.0
"	100	16.2
"	120	21.8
Passing	120	51.2

Mechanically the mills have given us no trouble since their installation, with the exception that the first pinion shipped with the mills was shrouded and the distance between the shrouds was not sufficient to allow for any end motion whatsoever of the mill as a whole, and the gear ultimately rode the shroud of the pinion, smashing both the gear and the pinion, but doing no further damage; since replacing with a pinion wider between the shrouds, no difficulty whatever has been had.

To limit the end motion upon this type of mill, two guide-rollers with vertical axis bear upon the sides of the supporting tire next the gear end, and a good deal of trouble has been had by earlier users of the mill, we understand, on account of the ten-