

APPLIED CONVEYOR AND POLYMERS LTD

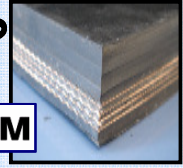
Quality That Goes Around



WINSTONE
AGGREGATES

Hunua - CV3

APEX QuarryMaster M



History: In 1999 Winstone Aggregates commissioned a new plant to be built at the old Hunua Quarry site in the Hunua Gorge. The plant was finished in Oct 2000 and final hand over was in early 2001. Applied Conveyor was not involved in the initial contract for supply of conveyor belt. Early into the hand over we were called in to supply **Apex Fenner** belt because of its proven reputation for superior quality, and many of the other Winstone plants were using **Apex Fenner** belt with excellent results.



Situation: The original belt supplied was 4ply PN150 5x2 'N-Grade' of either Korean or Taiwanese manufacture. This belt lasted a little over 3months in this harsh primary application. It was replaced by a 4ply PN150 8x2 with a breaker strip. This was either a locally manufactured or Korean belt. This lasted 5months before being replaced with an Apex Fenner **Quarrymaster II** PN630/4 6x2 covers. This belt lasted 8months before it needed replacing. At this point we sat down with Winstone management and looked at the whole situation. While the design checks confirmed a 4ply PN150 was well within the operating tensions, the rock being conveyed presented other problems. We came to the conclusion we needed a belt that was flexible enough to go around the 400mm Head and 320mm Tail drums without stressing the splice, yet have high impact and extra

cut and gouge resistant rubber covers. The belt we chose was **Apex Fenner Rockmaster** PN800/4 XCG covers. This belt has the extra cut and gouge covers with ample top and bottom cover thickness and a heavy ply fabric with extra skim cover to handle the impact. In addition to the savings below there is reduced downtime for belt replacement and onsite costs for re-splicing in the case of items 1(8 splices) and item 2(5 splices) all at \$1200 per splice. As of the 31/1/04 **Apex Fenner Rockmaster** has done 24months and will be changed out in March 2004 (26months). This does not take into account the extended production hours and increased tonnage this belt has carried.

Belt	Supplier	Length	Price per/m	Life months	Effective price per/m	Belt price for 24 months	Splice cost for 24 months	Total cost
4P PN150 5x2	Korean/ Taiwanese	31	\$109.00	3	\$872.00	\$27032.00	\$9600.00	\$36623.00
4P PN150 8x2 + BRKR	Korean/NZ	31	\$142.00	5	\$681.00	\$21130.00	\$6000.00	\$27130.00
QMII PN630/4 6X2	APEX FENNER	31	\$153.00	8	\$459.00	\$14279.00	\$3600.00	\$17879.00
ROCKMASTER PN800/3 10x3 XCG	APEX FENNER	31	\$261.00	24	\$261.00	\$8091.00	\$1200.00	\$9291.00



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