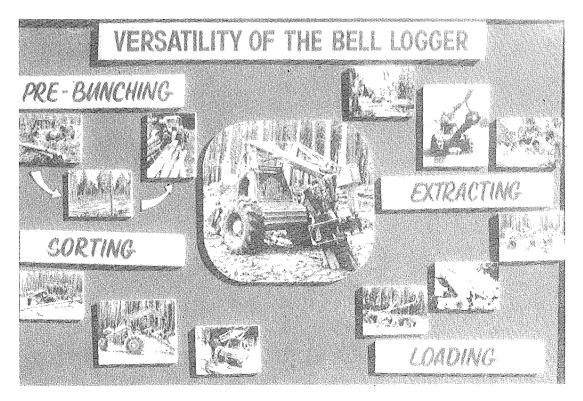
## ONE MACHINE DOES IT ALL

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## INTRODUCTION

Limited scale logging implies that the production level, for one reason or another, is restricted below optimum levels. To keep logging costs to a reasonable level it is important to minimise the capital investment on equipment. This can be accomplished by either using small, often under-powered, equipment for the job; or by using low purchase priced, second-hand equipment which is often unreliable and carries a high down time maintenance cost; or by using a single, versatile machine that is capable of performing more than one task. This paper looks at this latter option. The Bell Logger, a three-wheeled, 50 hp grapple skidder/loader is the one machine that can fell, bunch, skid, sort, stack and load.



## THE MACHINE

The Bell Logger is a three-wheeled hydrostatically driven grapple skidder/loader. It has a three-cylinder air-cooled Deutz engine driving the hydrostatic transmission. It has a 1.2 tonne lift capacity and is a relatively easy machine to operate. The Bell is capable of performing many functions, and these are listed in the following section.

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- 8. For really big wood there is the Super Bell which has a 68 horsepower engine and a 2.2 tonne lift capacity. The Super Bell has been used for sorting and stacking and as a loader in large old crop size material.
- 9. With a couple of adjustable spanners the logging grapple can be removed and replaced with a felling head. This makes the Bell into a directional feller-buncher. Although not tested in New Zealand this has proved successful in some overseas operations.
- 10. Finally the last option. If your logging operation includes a portable sawmill and the Bell can be equipped with a front end fork lift arrangement.

## CONCLUSION

So there it is - one machine that does it all. It may not perform any one function as well as a purpose-built machine, but its ability to perform many functions outweighs this. This makes the Bell an ideal machine for some limited scale logging operations.

