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Lot sizing problem with multi-mode replenishment and batch delivery

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Highlights

- Single-item lot sizing with multi-mode replenishment & batch deliveries is studied
- Replenishment cost is stepwise (called also full-truck-load or multiple setup cost)
- We show the NP-hardness, give a 2-approximation algorithm, show it admits an FPTAS
- Existing results are improved after the transformation to the single-mode problem
- Polynomial time algorithm for the case with 2 modes & divisible batches is proposed

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