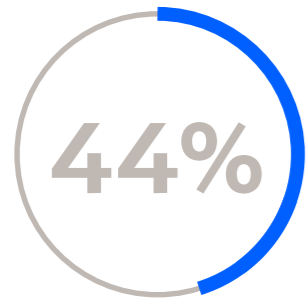


Autonomous Mobile Robots (AMR)

Improving the efficiency of warehouse floors of all sizes and sectors

Why AMR?

Labor shortages are a major challenge for manual jobs:



of warehouses have 10–20% staff turnover annually



1-5 applications for each open position

1/2

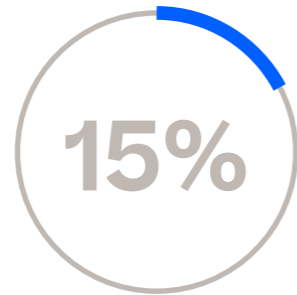
of applicants don't have relevant experience¹

AMRs can help make up the shortfall by doing the more labor-intensive, dirty and dangerous warehouse tasks.

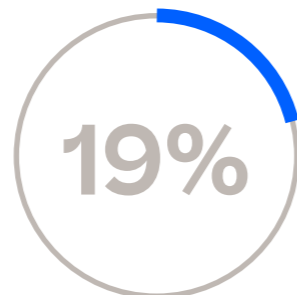
Seasonal peaks affect every warehouse, in every sector:

20-30%

of total annual sales happen during sector peaks²



of warehouses are at 100% capacity in normal periods³



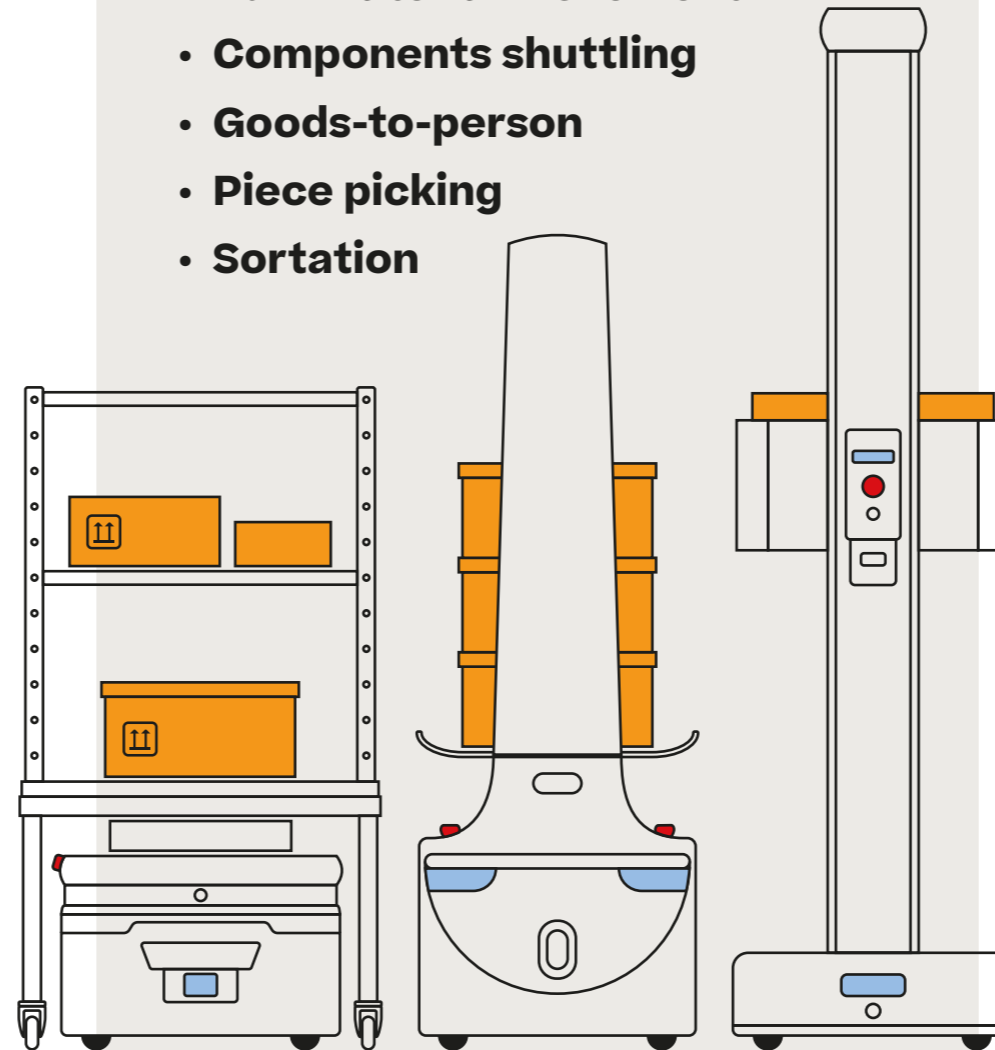
of staff are expensive temporary "peak" workers⁴

AMRs are an affordable way of taking off the pressure, when needed.

What do AMRs do?

AMRS are not designed to replace people, to make the jobs of existing people easier and safer.

- Put-away and replenishment
- Bulk material movement
- Components shuttling
- Goods-to-person
- Piece picking
- Sortation



AMR benefits

Autonomous Mobile Robots have recently seen venture capital investment of

\$360 million

This is due to warehouses finding them:



Affordable and flexible



Highly scalable



Easy to integrate

With big gains in:



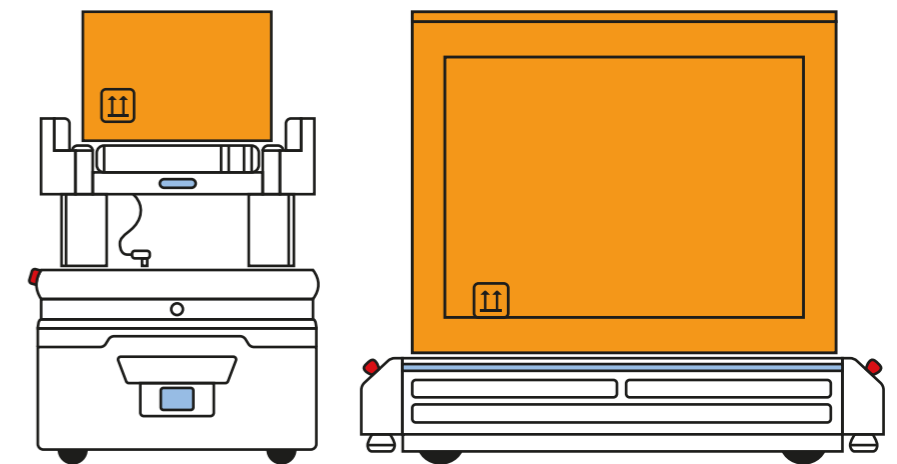
Efficiency



Productivity



Accuracy



References:

1. ARC Survey Results
2. www.inc.com/guides/2010/10/how-to-manage-seasonal-fluctuations.html
3. www.logisticsmgmt.com/article/2018_warehouse_distribution_center_equipment_survey_automation_robotics_1
4. www.Griver.com/warehouse-automation-statistics

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AMRs in use

