

# How much time does it take for a toon to finish a machine in Dandy's World

(An in-depth guide to the Extraction Speed stat)

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## Extraction Speed

- Each toon has a respective Extraction speed stat that determine how much time you complete a machine for (assuming you only did all Good Job on the skill check)
- Each machine has a unit of 45 to which toons has to fill up to make it complete

It follows this formula:

$$\text{Machine Unit} \div \text{Extraction Speed} = \text{Time (Seconds)}$$

$$1 \text{ } \star = (45 \div 0.75 = 60 \text{ seconds})$$

$$2 \text{ } \star \star = (45 \div 0.85 = 53 \text{ seconds})$$

$$3 \text{ } \star \star \star = (45 \div 1 = 45 \text{ seconds})$$

$$4 \text{ } \star \star \star \star = (45 \div 1.20 = 37.5 \text{ seconds})$$

$$5 \text{ } \star \star \star \star \star = (45 \div 1.50 = 30 \text{ seconds})$$

## Tech Savvy

- Tech Savvy is a card that randomly appears as a card vote you choose during an odd floor. What it does is that it decreases the amount of time needed to fill up machines by 5 seconds.
- How it works is that it doesn't actually reduce your toon's time extracting a machine by five seconds, it reduces the machine's unit amount by 5 to only 40 units. Its effectiveness depends on your extraction speed

The formula remains the same:

$$40 \text{ (Machine Units)} \div \text{Extraction Speed} = \text{Time (seconds)}$$

$$1 \text{ } \star = (40 \div 0.75 = 53 \text{ seconds})$$

$$2 \text{ } \star \star = (40 \div 0.85 = 47 \text{ seconds})$$

$$3 \text{ } \star \star \star = (40 \div 1 = 40 \text{ seconds})$$

$$4 \text{ } \star \star \star \star = (40 \div 1.20 = 33 \text{ seconds})$$

$$5 \text{ } \star \star \star \star \star = (40 \div 1.50 = 27 \text{ seconds})$$

## Trinkets

- Currently there are only two trinkets that increases extraction speed and that is **Blue Bandana** and **Machine Manual** and it increase your extraction speed stat multiplicatively

The formula for each individual trinket and if you equip them together:

$$\text{Extraction Speed} \times \text{Trinket buff} = \text{Total Extraction Speed}$$

$$\text{Machine Unit} \div \text{Total Extraction Speed} = \text{Time (seconds)}$$

**Blue Bandana** (Increase Extraction speed by 7.5% but reduces Skill check chance by 5%)

$$1 \text{ } \star = (0.75 \times 7.5\% = 0.8)$$

$$(45 \div 0.8 = 56.25 \text{ seconds})$$

$$2 \text{ } \star \star = (0.85 \times 7.5\% = 0.91)$$

$$(45 \div 0.91 = 49.5 \text{ seconds})$$

$$3 \text{ } \star \star \star = (1 \times 7.5\% = 1.075)$$

$$(45 \div 1.075 = 42 \text{ seconds})$$

$$4 \text{ } \star \star \star \star = (1.20 \times 7.5\% = 1.29)$$

$$(45 \div 1.29 = 34.9 \text{ seconds})$$

$$5 \text{ } \star \star \star \star \star = (1.50 \times 7.5\% = 1.61)$$

$$(45 \div 1.61 = 28 \text{ seconds})$$

### Machine Manual (Increase Extraction Speed by 5%)

$$1 \text{ ☀} = (0.75 \times 5\% = 0.79)$$

$$(45 \div 0.79 = 57 \text{ seconds})$$

$$2 \text{ ☀ ☀} = (0.85 \times 5\% = 0.89)$$

$$(45 \div 0.89 = 50.6 \text{ seconds})$$

$$3 \text{ ☀ ☀ ☀} = (1 \times 5\% = 1.05)$$

$$(45 \div 1.05 = 43 \text{ seconds})$$

$$4 \text{ ☀ ☀ ☀ ☀} = (1.20 \times 5\% = 1.26)$$

$$(45 \div 1.26 = 35.7 \text{ seconds})$$

$$5 \text{ ☀ ☀ ☀ ☀ ☀} = (1.50 \times 5\% = 1.58)$$

$$(45 \div 1.58 = 28.5 \text{ seconds})$$

### Blue Bandana + Machine Manual (+12.9% Extraction Speed)

$$1 \text{ ☀} = (0.75 \times 12.9\% = 0.85)$$

$$(45 \div 0.85 = 53 \text{ seconds})$$

$$2 \text{ ☀ ☀} = (0.85 \times 12.9\% = 0.96)$$

$$(45 \div 0.96 = 46.9 \text{ seconds})$$

$$3 \text{ ☀ ☀ ☀} = (1 \times 12.9\% = 1.129)$$

$$(45 \div 1.129 = 39.86 \text{ seconds})$$

$$4 \text{ ☀ ☀ ☀ ☀} = (1.20 \times 12.9\% = 1.35)$$






$$(45 \div 1.35 = 33.3 \text{ seconds})$$

$$5 \text{ ☀ ☀ ☀ ☀ ☀} = (1.50 \times 12.9\% = 1.69)$$

$$(45 \div 1.69 = 26.6 \text{ seconds})$$

## Stat Table

A table made to compile the total time and reduction on each respective stars on the time spent on doing machines with certain buffs

Extraction Speed	Without Buffs	Tech Savvy	Machine Manual	Blue Bandana	Total Reduction
1 	60s	-7s	-3s	-3.75s	-13.75s (46.25s)
2 	53s	-6s	-2.4s	-3.5s	-11.9s (41.1s)
3 	45s	-5s	-2s	-3s	-10s (35s)
4 	37.5s	-4.5s	-1.8s	-2.6s	-8.9s (28.6s)
5 	30s	-3s	-1.5s	-2s	-6.5s (23.5s)

(I used a lot of rounding off numbers for this so these are rough estimates at best)

## Conclusion

This basically shows that extraction speed does major benefits to toons with lower extraction speed as they benefit it much more than toons with high base extraction speed

Even though you can equip them both in your trinket slot, it does not pale in comparison to the Magnifying Glass + Participation Award combo as it performs far greater than them.

So it is best use case for Blue Bandana + Machine Manual on toons with low extraction or low skill check (I.e. Shrimpo or Cosmo) but one high extraction speed toon (Shelly or Vee) it is best to use Magnifying Glass + Participation Award to get the best effect.