

Process trial and experiment report

All records

TRIALS LOGGED
11
2 still running

ADOPTED
5
average change +26.4%

REJECTED OR INCONCLUSIVE
3
2 rejected · 1 inconclusive

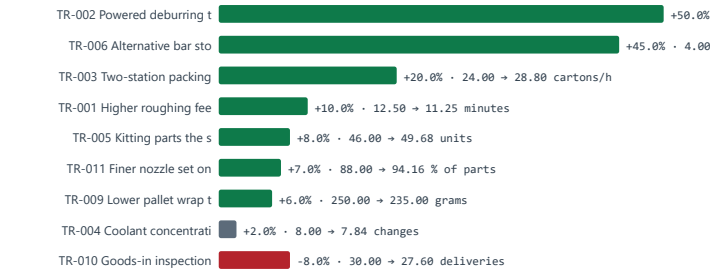
UNDERPOWERED TRIALS
3
under 20 observations a side · 1 already used to adopt or reject

ADOPTED, NOT STANDARDISED
1
improvements with nowhere to live — they will evaporate

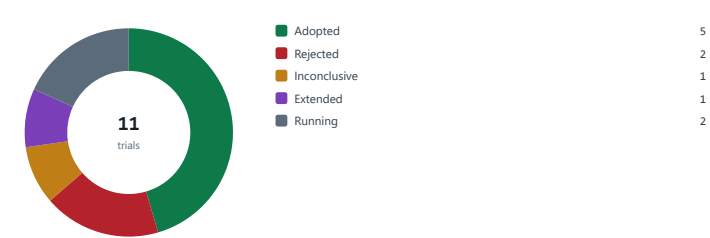
AVERAGE CHANGE, ADOPTED
+26.4%
across 5 adopted trials · noise threshold 5.0%

11 of 11 record(s) included. All records. Amounts in USD.

Trials by measured change

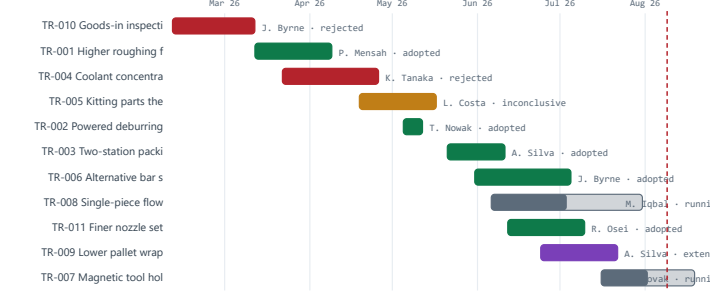


Green beats the meaningful-change threshold; grey sits inside it and is indistinguishable from an ordinary week; red went the wrong way. The bar length is the size of the movement — it says nothing about how many observations produced it, which is what the evidence column is for. Green beats the meaningful-change threshold; grey sits inside it and is indistinguishable from an ordinary week; red went the wrong way. The bar length is the size of the movement — it says nothing about how many observations produced it, which is what the evidence column is for.



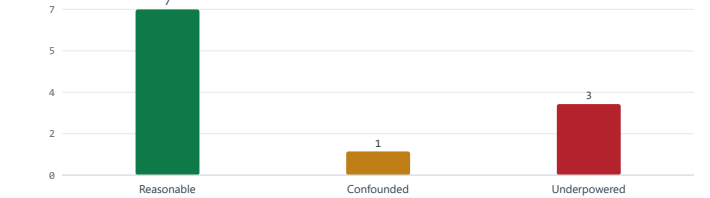
A register that is all adoptions is not a register of trials — it is a record of decisions already taken. Expect rejections and a few inconclusive results; they are the price of asking the question honestly. A register that is all adoptions is not a register of trials — it is a record of decisions already taken. Expect rejections and a few inconclusive results; they are the price of asking the question honestly.

When each trial ran



Trials that overlap in the same area are trials that cannot be told apart afterwards. A half-filled bar is a trial still running; a full bar has reached a conclusion. The dashed marker is today, so a grey bar left of it is a trial that has passed its end date without anybody deciding anything. Trials that overlap in the same area are trials that cannot be told apart afterwards. A half-filled bar is a trial still running; a full bar has reached a conclusion. The dashed marker is today, so a grey bar left of it is a trial that has passed its end date without anybody deciding anything.

Trials by strength of evidence



Underpowered means at least one side of the comparison is below your minimum sample size, or has no sample size recorded at all. Confounded means an adoption was made while something else was known to have changed. Neither is a statistical verdict — both are reminders of what the number cannot tell you. Underpowered means at least one side of the comparison is below your minimum sample size, or has no sample size recorded at all. Confounded means an adoption was made while something else was known to have changed. Neither is a statistical verdict — both are reminders of what the number cannot tell you.

The trial log

REF	TRIAL	AREA	CHANGED	MEASURE	BASELINE	TARGET	TRIAL	CHANGE %	TARGET MET	EVIDENCE	CONCLUSION	ADOPTED INTO	OWNER
TR-007	Magnetic tool holders at the press brake	Press brake	Magnetic tool holders fitted at the mach	Setup time per job (minutes) · Lower	18.00	14.00	—	—	—	Underpowered	Running	—	S. Novak
TR-009	Lower pallet wrap tension	Despatch — wrapping	Wrapper tension setting, 7 → 5	Film used per pallet (grams) · Lower	250.00	200.00	235.00	+6.0%	Not met	Underpowered	Extend	—	A. Silva
TR-011	Finer nozzle set on the powder coat line	Paint line	Nozzle set, 1.4 mm replaced with 1.1 mm	First-pass yield (% of parts) · Higher	88.00	93.00	94.16	+7.0%	Met	Confounded	Adopt	Paint line setup sheet PL-03 and the consumables list	R. Osei
TR-008	Single-piece flow at the sub-assembly bench	Sub-assembly	Batch size at the sub-assembly bench, 10	Lead time per sub-assembly (hours) · Lower	6.00	4.50	—	—	—	Reasonable	Running	—	M. Iqbal
TR-006	Alternative bar stock, second supplier	Turning cell	Bar stock — supplier B free-machining gr	Scrap rate (% of parts) · Lower	4.00	2.50	2.20	+45.0%	Met	Reasonable	Adopt	Approved supplier list and bar stock specification MS-07	J. Byrne
TR-003	Two-station packing layout	Despatch — packing	Bench layout — one station split into tw	Cartons packed per hour (cartons/h) · Higher	24.00	27.00	28.80	+20.0%	Met	Reasonable	Adopt	nowhere — not standardised	A. Silva
TR-002	Powered deburring tool on housings	Finishing bench	Hand file replaced with a powered deburr	Deburr time per housing (minutes) · Lower	9.00	7.00	4.50	+50.0%	Met	Underpowered	Adopt	Work instruction WI-22 — deburring	T. Nowak
TR-005	Kitting parts the shift before	Assembly line 2	Kits made up on the previous shift inste	Units assembled per shift (units) · Higher	46.00	52.00	49.68	+8.0%	Not met	Reasonable	Inconclusive	—	L. Costa
TR-004	Coolant concentration raised to 8%	CNC cell — machine 1	Coolant concentration, 6% → 8%	Tool changes per 1,000 parts (changes) · Lower	8.00	6.00	7.84	+2.0%	Not met	Reasonable	Reject	—	K. Tanaka
TR-001	Higher roughing feed rate on brackets	CNC cell — machine 3	Roughing feed rate, 900 → 1,100 mm/min	Cycle time per bracket (minutes) · Lower	12.50	11.50	11.25	+10.0%	Met	Reasonable	Adopt	CNC program BRK-104 rev C and the setup sheet	P. Mensah
TR-010	Goods-in inspection batched to end of shift	Goods-in	Inspection batched to the last hour inst	Deliveries booked in per day (deliveries) · Higher	30.00	34.00	27.60	-8.0%	Not met	Reasonable	Reject	—	J. Byrne

Credibility check

REF	TRIAL	ISSUE										OWNER	BASELINE N / TRIAL N				
TR-002	Powered deburring tool on housings	Underpowered — under the minimum of 20 a side, and the trial has already been used to adopt										T. Nowak	22 / 6				
TR-007	Magnetic tool holders at the press brake	Underpowered — under the minimum of 20 a side										S. Novak	40 / 12				
TR-009	Lower pallet wrap tension	Underpowered — under the minimum of 20 a side										A. Silva	80 / 18				
TR-003	Two-station packing layout	Adopted but not written into any standard — nothing holds the change in place										A. Silva	60 / 45				
TR-011	Finer nozzle set on the powder coat line	Confounded adoption — something else changed during the trial: The line was serviced and the booth filters replaced in the week the t...										R. Osei	900 / 420				
TR-008	Single-piece flow at the sub-assembly bench	Past its end date by 9 days with no conclusion recorded										M. Iqbal	55 / 31				

Trial register

REF	TRIAL	AREA	OWNER	CHANGED	MEASURE	UNIT	BASELINE	BASELINE FROM	BASELINE N	TARGET	DIRECTION	TRIAL	TRIAL N	START	END	CONCLUSION	ADOPTED
TR-001	Higher roughing feed rate on brackets	CNC cell — machine 3	P. Mensah	Roughing feed rate, 900 → 1,100 mm/min	Cycle time per bracket	minutes	12.50	4 weeks before, 240 parts	240.0	11.50	Lower	11.25	180.0	2026-03-12	2026-04-09	Adopt	CNC program 104 rev C and setup sheet
TR-002	Powered deburring tool on housings	Finishing bench	T. Nowak	Hand file replaced with a powered deburr tool	Deburr time per housing	minutes	9.00	2 weeks before, 22 housings	22.0	7.00	Lower	4.50	6.0	2026-05-05	2026-05-12	Adopt	Work instructi 22 — deburri
TR-003	Two-station packing layout	Despatch — packing	A. Silva	Bench layout — one station split into two	Cartons packed per hour	cartons/h	24.00	3 weeks before, 60 shift-hours	60.0	27.00	Higher	28.80	45.0	2026-05-21	2026-06-11	Adopt	—
TR-004	Coolant concentration raised to 8%	CNC cell — machine 1	K. Tanaka	Coolant concentration, 6% → 8%	Tool changes per 1,000 parts	changes	8.00	6 weeks before, 42 batches	42.0	6.00	Lower	7.84	38.0	2026-03-22	2026-04-26	Reject	—
TR-005	Kitting parts the shift before	Assembly line 2	L. Costa	Kits made up on the previous shift instead of at the bench	Units assembled per shift	units	46.00	6 weeks before, 30 shifts	30.0	52.00	Higher	49.68	24.0	2026-04-19	2026-05-17	Inconclusive	—
TR-006	Alternative bar stock, second supplier	Turning cell	J. Byrne	Bar stock — supplier B free-machining grade	Scrap rate	% of parts	4.00	8 weeks before, 620 shafts	620.0	2.50	Lower	2.20	300.0	2026-05-31	2026-07-05	Adopt	Approved sup and bar stock specification I
TR-007	Magnetic tool holders at the press brake	Press brake	S. Novak	Magnetic tool holders fitted at the machine	Setup time per job	minutes	18.00	5 weeks before, 40 setups	40.0	14.00	Lower	0.00	12.0	2026-07-16	2026-08-19	Running	—
TR-008	Single-piece flow at the sub-assembly bench	Sub-assembly	M. Iqbal	Batch size at the sub-assembly bench, 10 → 1	Lead time per sub-assembly	hours	6.00	4 weeks before, 55 units	55.0	4.50	Lower	0.00	31.0	2026-06-06	2026-07-31	Running	—
TR-009	Lower pallet wrap tension	Despatch — wrapping	A. Silva	Wrapper tension setting, 7 → 5	Film used per pallet	grams	250.00	3 weeks before, 80 pallets	80.0	200.00	Lower	235.00	18.0	2026-06-24	2026-07-22	Extend	—
TR-010	Goods-in inspection batched to end of shift	Goods-in	J. Byrne	Inspection batched to the last hour instead of on arrival	Deliveries booked in per day	deliveries	30.00	8 weeks before, 40 working days	40.0	34.00	Higher	27.60	25.0	2026-02-10	2026-03-12	Reject	—
TR-011	Finer nozzle set on the powder coat line	Paint line	R. Osei	Nozzle set, 1.4 mm replaced with 1.1 mm	First-pass yield	% of parts	88.00	6 weeks before, 900 parts	900.0	93.00	Higher	94.16	420.0	2026-06-12	2026-07-10	Adopt	Paint line setu PL-03 and the consumables

Notes

Sample register — replace every trial with your own before relying on it or circulating it.

This tool records the design and the result of a trial: what you predicted, what you measured before, what you changed, what you measured after, and what you decided. It does not test statistical significance, it cannot know whether the two measurement periods were comparable, and it cannot see anything you did not write in the confounders box. A small sample with a big number in it is still a small sample — the change percent is arithmetic, not proof. Where a decision carries real money, real safety or real regulatory weight, have it designed and analysed by somebody competent to do so.