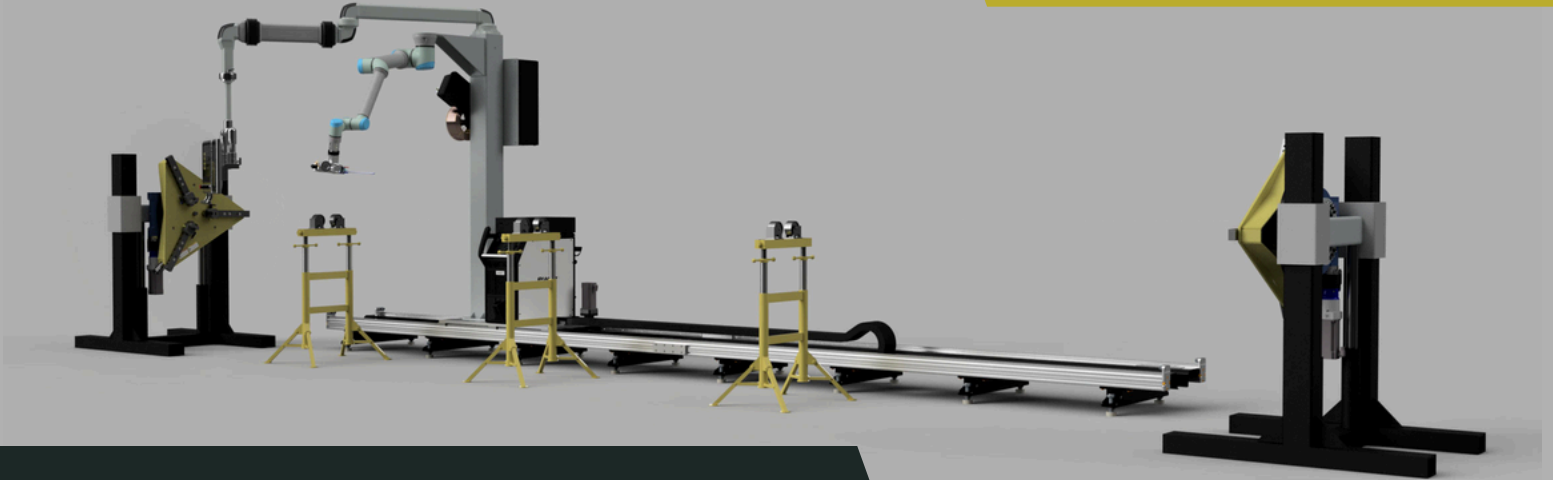




M4

EVOLUTIONARY WELDING

2G	PIPE 6" sch 10	BRANCHES 1.250" NPS Pulled-Tee	WELDS/HR 10	M4 CYCLE 3.5 IPM	HEADER TIME ~22 min
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21.8X FASTER PER HEADER

~22 min on M4 vs ~ 480 min manual.
One shift = up to 8 headers, 80 welds incl. material handling.

\$1.4M ANNUAL LABOR SAVINGS

One M4: ~2,000 headers / yr.
One manual welder: ~240 headers / yr.

WHERE ORBITAL CAN AND CAN'T COMPETE

Modern orbital systems can weld machined pulled-tee headers, but need **~15 min of setup per weld** at ~3 in/min. M4 welds a full 10-branch header in **~22 min** and runs natively on pulled-tee geometry, not just machined components.

M4 PAYBACK

ON INITIAL INVESTMENT

(orbital reference cell ~ \$125K, wire-fed)

~85 days

vs MANUAL 6G

~14 mo

vs ORBITAL (incremental)

\$3.65M vs Manual

\$655K vs Orbital

3-YR TOTAL COST OF OWNERSHIP ADVANTAGE

*Optional torch extenders to weld up to 25" branches

M4

EVOLUTIONARY WELDING



1G

PIPE
6" sch 40

ARC ON TIME
85%

M4 3 PASS WELD
12 min

MANUAL BUTT WELD
~75 min

17X FASTER ON 6" BUTT WELDS

75 min manual → 12 min on M4. Same operator, same shop floor.

\$105 SAVED PER 6" WELD

At \$100/hr shop labor rate. Scales with diameter.

726 SPOOLS TO PAYBACK

6" SCH 40, ~2,905 welds. on the \$305K 1G machine basis

MANUAL CONFIGURATION:

12" NPS | Schedule 40 (.406") | Weld time= 152.4 minutes.

ARC-ON TIME

Per 8-hour shift

Manual

10%

M4 - 1G

85%

THE M4 PITCH IN ONE LINE

The M4 platform delivers **1G roll-out spool welding** (6x faster than manual on 6" sch 40, \$105/weld saved) and **2G pulled-tee header welding** (22x faster than manual per header, up to 8 headers per shift, \$1.4M/yr labor saved at ~2000 headers/yr). Pays back in ~85 working days vs manual; 1G utility is pure margin. 3-year total cost of ownership advantage: \$3.65M vs manual, \$655K vs orbital.

