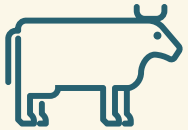
COW FLOW BY DESIGN

Simple Flow. Calm Cows. Better Performance.

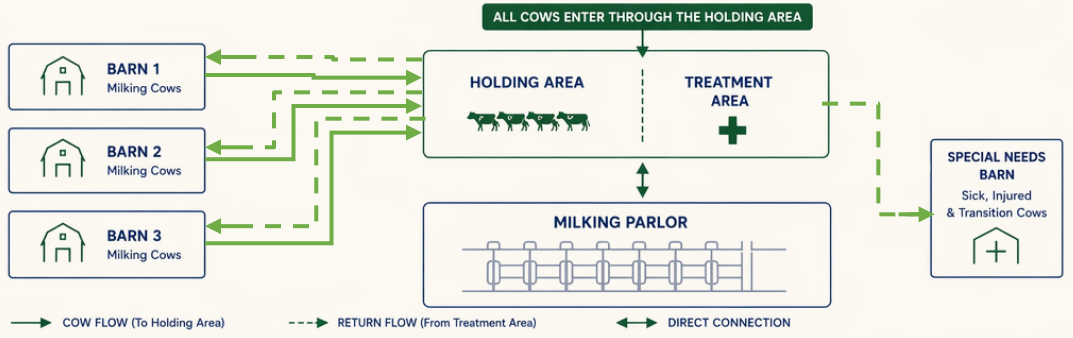
MONTESTRUCTURA

A clean, connected layout with smart cow flow reduces stress, improves milking efficiency and delivers better results.



COW FLOW MATTERS

Cows that move easily and calmly spend less energy, experience less stress and deliver more milk.



A WELL-DESIGNED TRAFFIC AREA IS THE KEY. A well-executed cow group management can then avoid unnecessary conflicts between the groups.

INEFFICIENT FLOW (Typical Layout)

Multiple crossings, backtracking and long paths create stress, waste time and reduce efficiency.

	Crossings	Crowded Areas	Longer Time	Lower Performance	More Labor
	Increase stress and risk of injury	Cause pushing, waiting and stress	More delays, lower throughput	Less milk, more health issues	More time, more cost
TYPICAL IMPACT*	+10–20% Longer Milking Time	+15–25% More Cow Stress	−5–15% Lower Milk Production	+10–20% More Labor Required	Higher Risk of Injury & Health Issues

OPTIMIZED FLOW (This Layout)

Direct connection and one-way flow create calm cows, faster milking and higher efficiency.

	One-Way Flow	Less Stress	Faster Milking	Higher Production	Less Labor
	Cows move forward without backtracking	Calmer cows, better behavior	Less waiting, higher throughput	Better comfort, more milk	Less time, more efficiency
TYPICAL IMPACT*	−10–20% Milking Time Reduction	−15–25% Lower Cow Stress	+5–15% Milk Production Increase	−10–20% Labor Time Reduction	Lower Injury & Health Risk

THE IMPACT ON YOUR FARM

- **Higher Profitability** — Better efficiency lowers costs and increases margins.
- **More Milk, Better Quality** — Less stress and smoother flow improve production and quality.
- **Healthier Cows** — Reduced stress and fewer injuries lead to healthier, longer-lasting cows.
- **Happier Team** — Easier work, less frustration and more job satisfaction.

COW FLOW DESIGN PRINCIPLES

1. Create a clear, one-way flow from entry to exit.
2. Provide enough space for natural movement.
3. Avoid crossings between cow groups.
4. Keep holding area directly connected to the milking parlor.
5. Design traffic alleys behind the holding area to connect all barns.
6. Provide a separate space for special needs cows.

WHAT RESEARCH SHOWS

−17% Better facility flow reduced milking time by 17%.
Grant, R. J., et al. (2008) *Journal of Dairy Science* 91: 2085–2092

−23% Improved cow flow and handling reduced stress by 23%.
von Keyserlingk, M. A. G., et al. (2009) *Applied Animal Behaviour Science* 116: 1–6

+8–12% Better cow flow is associated with 8–12% higher milk yield.
Hertl, J. A., et al. (2020) *Journal of Dairy Science* 103: 4986–4998

−10–20% Well-designed layouts reduce labor time by 10–20%.
Bewley, J. M. (2012) *Journal of Dairy Science* 95: 6962–6972

Design today. Deliver tomorrow.
Smart cow flow design improves cow comfort, increases efficiency and drives your farm forward.

Sources

Grant, R.J., Albright, J.L. & Arave, C.W. (2008) The effect of facility design on milking performance, Journal of Dairy Science.

Von Keyserlingk, M.A.G., Weary, D.M., & Pajor, E.A. (2009) Cattle respond differently to handling depending on previous experience with humans. Applied Animal Behavior Science.

Hertl, J.A.,Smith, J.L., & Hagen, M. (2020) Association between cow flow and milk production on commercial dairy farms. Journal of Dairy Science

Bewley, Dairyfarm efficiency: Impacting profit and throughput, Journal of Dairy Science

* Typical ranges based on industry standards and practical experience.