McCONNEL

"making milking easier and faster"

Backing Gate Drives
For Circular Yards

Photo courtesy of Waikato Dairy Builders

2 Wheel
Gates up to 7m

3 Wheel
Gates up to 10m

5 Wheel
Gates up to 14m

6 Wheel
Gates up to 18m

8 Wheel
Gates up to 22m

Water or *Electric* Powered

Time spent milking is a direct cost and is also time away from producing milk for both the farmer and cow. The benefits of reduced milking time are only temporary unless the equipment used is reliable. K H McConnel Limited understands that today's farmer needs equipment that works, not most of the time but every milking of the season. Since 1963 we have been designing and manufacturing robust and reliable equipment, aimed at cost effectively meeting farmers needs. Our products pay for themselves by doing their job effectively and reliably for a long time.

McCONNEL **backing gate drive units are an important part of a modern milking system and provide these benefits.**

Choice: A wide range of models are available to suit each farmers needs. Five basic configurations match the size of the backing gate (see front page) and all are available with the following power options.

- One direction water turbine
- Two direction water turbine
- Single phase 230v, 50Hz electric motor
- Three phase 400v, 50Hz electric motor

All gate drives are supplied standard with:

- Freewheeling clutch for manual gate movement
- Easy change bonded rubber wheels
- Adjustable front wheel/s for left or right hand yards
- Weldable steel mounting plate 250mm above ground level

Comparison of electric and water driven gate drive units.

Electric motor units	Water turbine units
Suitable for all climates.	Suitable for temperate climates i.e. adequate water supply and no hard frosts.
Requires optional slip clutch to limit drive output torque.	Drive output torque and speed can be controlled simply by adjusting water pressure.
Outside wiring should be checked regularly for damage or deterioration.	No electricity is needed in the holding yard and less chance of animals being upset by stray electricity.
Initial installation costs are normally higher but less if wiring is already installed. Must be connected to power supply by a registered electrician.	Initial installation costs are normally lower. May be connected to existing yard wash plumbing or farm water supply by competent labourer.
Suitable motor overload, short circuit and earth leakage protection is required.	There is no motor to burnout. The water turbine can stall under load without damage.
More expensive to install on two gate 360 deg. yards.	Centre post glands are available and affordable.
No water usage can reduce effluent treatment load.	Waste water can be used to keep yard wet for easier cleaning but may increase effluent treatment load.

Reliability: No corners are cut in the manufacture of our products. Quality components and attention to detail ensures each new unit is ready to do it's job. All come with a one year limited warranty against faulty parts and workmanship.

Performance: Ask the majority of New Zealand dairy farmers. With sensible gate design, our gate drives have ample power to prompt cows into the milking shed.

Durability: Aluminium body and stainless steel external rotating shafts provide excellent corrosion resistance. Robust gears are fully enclosed in an oil bath for long life. Our gate drive units continue to be improved to meet changing demands. Modular construction means many of these improvements can be fitted to older gate drives.

Service: Our business is based on helping our customers throughout the life of our products. Emphasis on the long term ensures the availability of parts, service and technical assistance. New units and spare parts are available from a wide variety of outlets throughout New Zealand with most farmers able to use their preferred local supplier.

Technical Information	Three Phase Electric	Single phase Electric	Water Turbine
Electric supply: Volts	⅄ 400v ± 10% / Δ 230v ± 10%	230v ± 10%	
Amps	1.1A / 1.9A	3.1A	
Frequency	50Hz / 50Hz	50Hz	
Power	250w (1/3 Hp) / 250w (1/3 Hp)	370w (1/2 Hp)	
Water supply: Pressure			275 kPa (40 psi)
Flow			90 l/min (20gal/min)

Prices and specifications are subject to change without notice

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