



# PROJECT PROFILE



## Carter Holt Harvey Properties

Carter Holt Harvey Properties (CHHP) chose Milfos as the key technology supplier to one of the most substantial dairy farm developments ever to be undertaken in New Zealand. At the end of 2012 it is proposed that more than 22,000 cows will be milked through over 30 farm dairies ranging from 40 to 80 milking points. The operation takes in roughly 7900 hectares with the smallest property around 190 hectares and the largest at 390 hectares milking 1100 cows.

Milfos is contracted to deliver Milking, Rotary Platform, Water, Cooling and Heat Recovery services to each property.

Milfos Managing Director Jamie Mikkelson says that CHHP chose to focus on all areas of plant efficiency in their dairy operations. "From milking performance to energy efficiency, our clients wanted to make sure they were installing a package that performed in terms of cow throughput with the least environmental impact."

This has meant that labour saving devices such as the iCR have been installed for automated cluster removal. Bail restraints on the rotary systems retain cows that are not milked out or have had issues throughout the milking process. Teat spraying is automated using the iNTELSPRAY system in the exit raceway. Power efficiency is preserved through variable speed controls on the milk, water and vacuum systems. An impressive 40% energy saving can be obtained throughout the milking as the intelligent controls speed up and slow down in response to the demand on the equipment.



### Farm Stats

**Size:** 7900 hectares

**Location:** Tokoroa & surrounding areas, Waikato, North Island, New Zealand

**Number of Cows:** 22,000

**Farming Type:** Grazing

**Production:** Not disclosed

### System Design referred to in this Profile

	Ref	Page
• iXPRESSIA Milking System		6.12
• iARM		7.4.18
• iCR		7.3.6
• iCRS Bail Restraints		7.3.2
• iNTELWASH		7.4.14
• iNTELSPRAY		7.4.17
• iCONVEYER		6.2
• iFLOW		5.2
• Vertical Silos & Cooling Solutions		9.2

Milk recovery systems are installed as standard on all parlours. This ensures that milk loss is minimised at the end of the milking process.

An iNTELWASH system is installed on each farm to wash the plant with the exact mix of hot and cold rinses and detergent dosage. This not only saves time but takes care of health and safety concerns around detergent handling.

The systems selected for the projects include the iXPRESS4 milking system with iARMS for the herringbones and the iCONVEYER milking system and iFLOW platforms for the rotaries.

The cooling solution includes vertical silos with insulated wraps and energy efficient compressors with smart controls.



Heat is recovered from the compressor unit and is used to preheat water in the hot water cylinder used for washing the plant and silos. This offers significant reduction in heating costs.

Mikkelson says that "CHHP have shown real leadership in the development of world class milking facilities that set the efficiency benchmark for milking producers worldwide".

