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СИСТЕМЫ ДОЕНИЯ IICRS, HI FLOW, ICORE ADVANCED Технические характеристики



iCRS Cow Restraint System

Designed to make rotary parlours more efficient and reduce labour at milking time.

The iCRS system is connected and controlled by the automatic cluster remover installed on the rotary platform.

The cow restraint drops down behind the cow when the cluster is attached which keeps the cow on the platform if she has not finished milking. This reduces labour requirements at the clusters off area.

Using a chain behind slow milking cows is a thing of the past. Now the operator simply attaches the cluster to the cow and the system is automated from that point.

The system consists of machined hinges, a plastic strap and an iHDR100 Ram that controls the operation.

The flexible strap that retains the cow on the platform is a key feature. The system does not use fixed metal arms that can be dangerous at pinch points around the rotary creating a working hazard for operators.

The system can be fitted to all types of rotary platforms and automated cluster removers on the market.

Advanced features such as retention of the cow for low milk, kick off or milk quality problems is also possible with the iCRS system.

- Retains cow on the platform if she is still milking or has

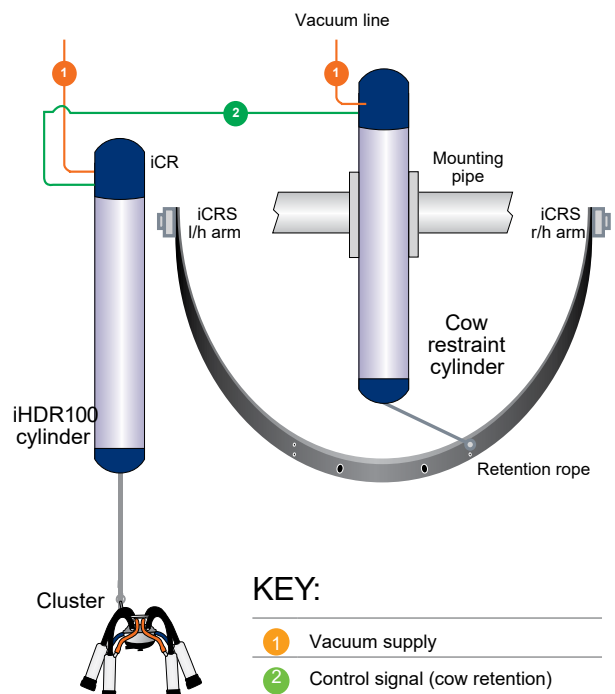
Key features

- Connects to the automated cluster remover
- Suitable for new or existing rotary parlours
- Smart design using flexible strap reduces working hazard for operators at milking time
- Integrated upper and lower stopper to ensure strap is in ideal position



iCRS cow restraints lowered in bail.

iCRS LAYOUT



HI FLOW Glands

The HI FLOW Series of rotary transfer glands have been designed in a modular format so that your automation solutions are well catered for.

From a standalone gland for transfer of vacuum, milk and electrics to a full suite of services like compressed air, CIP, wash solution and wash down water our HI FLOW product line offers a great deal of flexibility.

HI FLOW 2C Rotary Gland

The HI FLOW 2C Rotary Gland was developed to cater for the increasing size of rotary installations that demand a high level of reliability and performance year round. The gland primarily transfers vacuum, milk, electrics and data onto the rotating platform.

The HI FLOW 2C gland is well constructed using modern self lubricating plastics and high quality stainless steel.

The main body has a 150mm diameter section for the transfer of vacuum. This design reduces frictional air loss associated with traditional glands units. Connection to the vacuum section is made using 102mm RJT fittings. The main body has a washing port and drain to keep the main body hygienically clean should

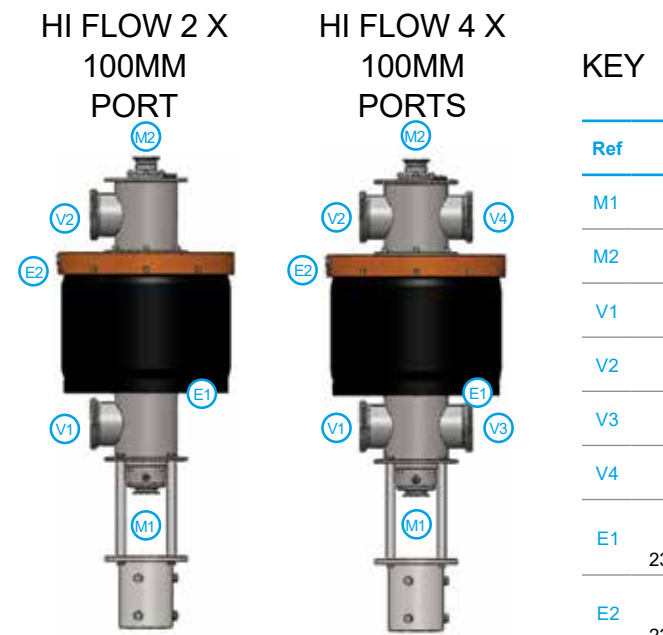
milk enter the vacuum system. The milk section is 50mm with welded tri-clover fittings.

Inlet and outlet ports can be interchanged which allows services such as vacuum, milk and electrics to be fed overhead or from the floor.

The rotating bearings are self lubricated using automatic grease dispensers. This takes away the task of periodic lubrication which often gets neglected on busy farming operations.

The gland has 10 or 12 tracks for the transfer of both power and data communication if required. Data tracks have integrated track cleaners for robust data transfer. The gland utilises a range of carbon brushes, depending on application, to ensure uninterrupted flow of either the power or data.

The gland is supplied complete with mountings to fit an 80NB galvanized centre post.



KEY

Ref	Size	Connection	Suitable Use	General
M1	50mm	Tri-clover Clamp	Milk or Water	Milk delivery to filters & coolers
M2	50mm	Tri-clover Clamp	Milk or Water	Milk Delivery from pumps
V1	102mm	RJT Female	Vacuum Only	Vacuum delivery from pumps
V2	102mm	RJT Female	Vacuum Only	Vacuum supply to plant
V3	102mm	RJT Female	Vacuum Only	Vacuum delivery (2) from pumps
V4	102mm	RJT Female	Vacuum Only	Vacuum supply (2) to plant
E1	10 or 12 track 20A / track, 230/415v 50/60Hz	3 x M20 cable entry glands electrical screw terminals	Electric & Data	Supply of electrics and data to revolving platform
E2	10 or 12 track 20A / track, 230/415v 50/60Hz	3 x M20 cable entry glands electrical screw terminals	Electric & Data	Supply of electrics and data to revolving platform

HI FLOW 3C Rotary Gland

The HI FLOW 3C Rotary Gland is a new concept design that caters for the increasing demand for high levels of automation on rotary platforms.

This gland has the ability to transfer three key services onto the rotating platform; milk, vacuum and water, along with electrics and data.

The main advantage of the HI FLOW 3C Rotary Gland is the ability to include CIP wash water through the gland. Wash water can be plumbed permanently through underground plumbing. Therefore, there is no loss of vacuum by lifting wash water to a static head.

As with all GEA rotary glands, the design is flexible and modular. Any of the secondary gland combinations can be used with the HI FLOW 3C. This allows greater flexibility for supply of additional services onto the platform including compressed air, wash down water, services for feed troughs, secondary milk or discard lines.

Key Features

- Transfers milk, vacuum, electrics, data and water
- Can include CIP wash water in one gland
- No loss of vacuum by lifting wash water to static head
- Flexible options for secondary glands

TREAT COWS EASILY
BRING ATTENTION
COWS BACK ONTO THE
PLATFORM, WHILST
PLANT IS IN WASH MODE,
FOR EASY APPLICATION
OF HEALTH
TREATMENTS.



3C HI FLOW 2 x 100mm installed.

KEY

3C HI FLOW 2 X 100MM PORTS



3C HI FLOW 4 X 100MM PORTS



Ref	Size	Connection	Suitable Use	General
M1	50mm	Tri-clover Clamp	Milk or Water	Milk delivery to filters & coolers
M2	50mm	Tri-clover Clamp	Milk or Water	Milk Delivery from pumps
V1	102mm	RJT Female	Vacuum Only	Vacuum delivery from pumps
V2	102mm	RJT Female	Vacuum Only	Vacuum supply to plant
V3	102mm	RJT Female	Vacuum Only	Vacuum delivery (2) from pumps
V4	102mm	RJT Female	Vacuum Only	Vacuum supply (2) to plant
E1	10 or 12 track 20A / track, 230/415v 50/60Hz	3 x M20 cable entry glands electrical screw terminals	Electric & Data	Supply of electrics and data to revolving platform
E2	10 or 12 track 20A / track, 230/415v 50/60Hz	3 x M20 cable entry glands electrical screw terminals	Electric & Data	Supply of electrics and data to revolving platform
W1	63mm	Tri-clover Clamp	Milk or Water	Water delivery to gland
W2	63mm	Tri-clover Clamp	Milk or Water	Water delivery onto platform

HI FLOW 7 Port Auxiliary Gland

The HI FLOW 7 Port Auxiliary Gland is primarily designed for supply of services to the rotary platform to improve operator efficiency and safety.

Having permanent services connected can allow the Milk Purge to be operated at any time, the CIP is operating. While the platform is rotating, high pressure wash down water can also be accessed at any time and, when iPUDs are installed on the platform, the Teat Spray Solution is transferred directly onto the platform from the chemical mixing room.

The Auxiliary Gland mounts directly on to the main gland body using the modular flange and pillar system. Gland components are machined from high quality stainless steel and engineered plastics. Harsh teat spray chemicals are handled via a nylon conduit for superior chemical resistance.

Key Features

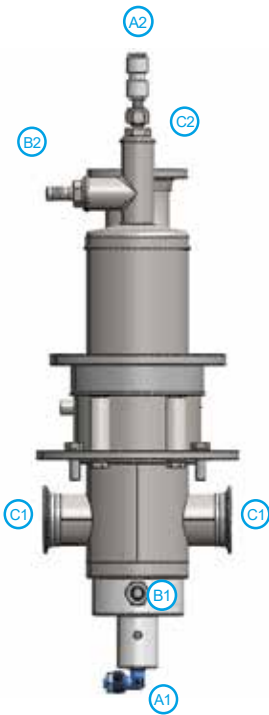
- Direct mounting to any HI FLOW Gland
- Nylon centre conduit to handle harsh teat spray chemical
- Failsafe design on chemical conduit to prevent contamination to air or water paths



HI FLOW 7 Port Auxiliary Gland.

HI FLOW 3C GLAND WITH 7 PORT AUXILLARY GLAND

Ref	Size	Connection	Suitable use
A1	10mm	Push Fit	Compressed Air or Teat Spray Solution
A2	10mm	Push Fit	Compressed Air or Teat Spray Solution
B1	1/2"	Hosetail	Compressed Air or Water
B2	1/2"	Hosetail	Compressed Air or Water
C1	63mm	Flanged	CIP Wash Water or High Pressure Wash Down Water
C2	50mm	50mm Tri-clover	CIP Wash Water or High Pressure Wash Down Water



Plus Kits for HI FLOW Rotary Glands

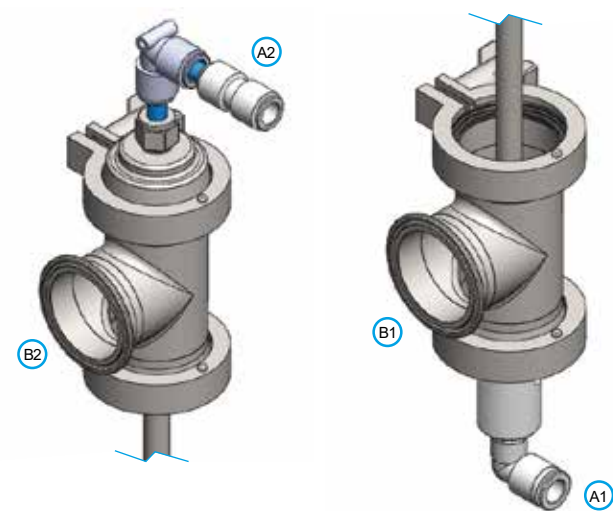
Plus Kits for HI FLOW Rotary Glands allow an extra conduit path for high pressure low volume fluids such as compressed air or teat spray solution.

Having a compressed air service permanently connected can allow the Milk Purge to be operated at any time. Alternatively, the Plus Kit may be used to transfer Teat Spray Solution directly onto the platform from the chemical mixing room when iPUDs are installed. Gland components are machined from high quality stainless steel and engineered plastics. Harsh teat spray chemicals are handled via a nylon conduit for superior chemical resistance.

Key Features

- Retro fits to existing HI FLOW 2C or 3C Glands
- Nylon centre conduit to handle harsh teat spray chemical
- Failsafe design on centre conduit to prevent contamination to milk chamber

2C PLUS KIT ASSEMBLY 3C PLUS KIT ASSEMBLY



Ref	Size	Connection	Suitable use
A1	10mm	Push Fit	Compressed Air or Teat Spray Solution
A2	10mm	Push Fit	Compressed Air or Teat Spray Solution
B1	50mm	50mm Tri-clover	Milk
B2	50mm	50mm Tri-clover	Milk

STANDARD COMPONENTS:

An electronic dispenser that can be set to discharge at predetermined intervals eliminating the need to manually maintain grease points around the machine.

The unit ensures that the correct amount of grease is dispensed and that over greasing does not occur. This guarantees trouble free running of the machine while saving on lubrication costs.

The units have a programmable dispensing rate from 1 to 12 months which is displayed on the LED screen. The purge mode allows the unit to be manually operated.

A replaceable service kit includes a new grease cartridge and battery which ensures a long life of economical operation.

Key Features

- Auto greasing takes care of manual maintenance
- Grease is applied at correct application rates
- Decreased lubrication costs
- Protects your assets.



Auto greaser fitted to carriage roller assembly.

iCORE cluster removers for added automation

As a basic automatic cluster remover (ACR) the intelligent system is designed for simplicity and is easy to operate.

The ACR allows the operator full control of the milking point. The system includes the iHDR100 Ram with LEDs located in the head of the ram to indicate the mode of control and if a problem has occurred during milking. The operator simply pushes the button to initiate milking.

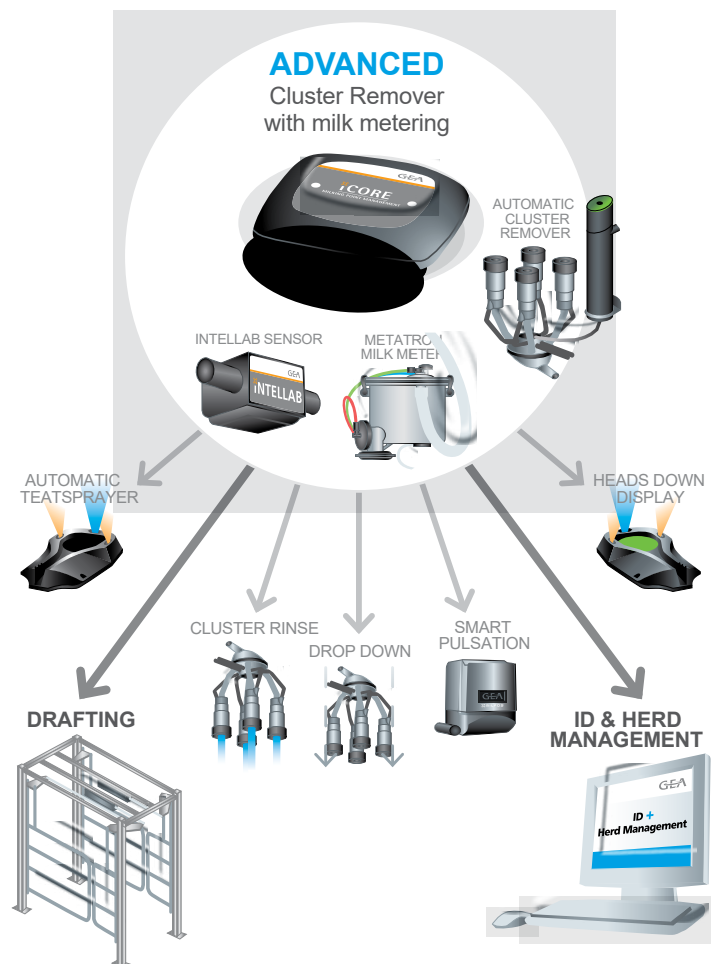
Key Features

- All of the functionality of the iCR see page 70
- Heavy duty, powerful ram with high visibility indicators located in the head
- Kick off sensor shuts off vacuum and retains the cow on the platform if fitted with bail restraint system
- Flexible software to customise the product to each specific installation
- Programme from your phone
- Global milking point adjustment parameter
- take off level indicated by milk flow sensor
- Milk sweep delay allowing improved cow comfort with clean removal of cups.

OPTION 1: iCORE



OPTION 2: iCORE ADVANCED



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