



RINGSPANN CORPORATION

**LLevando
Soluciones de
Transmision de
Potencia a
Mejico**



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Seminario Ringspann

- Producto
- La Ventaja de Ringspann
Tipos FreeWheel “Embrague Dentado” /
Aplicaciones / Funciones
- Serie Freewheel “Embrague Dentado” /
intercambios
- Sumarizacion
























INDUSTRIAL MAGZA®
DIST. AUTORIZADO

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Productos de Ringspann

RINGSpann Power Transmission					RINGSpann Workholding Technology
Freewheels	Brakes	Torque and Force Limiters	Couplings and Clamping Clutches	Shaft-Hub-Connections	Precision Clamping-Fixtures
Backstops Automatic protection against reverse running of conveyor belts, elevators, pumps and fans. 	Industrial Disc Brakes Manually actuated – manually released. 	Torque Limiters with Screw Face Reliable overload protection for tough operating conditions. 	Flexible Couplings Large, allowed radial and angular misalignments. Minimum resiliency. 	Cone Clamping Elements For shaft-hub connections. High torques with small dimensions. 	Standard Parts for Clamping Fixtures The RINGSpann-System for the manufacture of your own precision clamping fixtures. 
Overrunning Freewheels Automatic engaging and disengaging of drives. 	Industrial Disc Brakes Spring actuated – pneumatically, hydraulically or manually released. 	Torque Limiters with Rollers With double or single Roller. Through ratcheting or disengaging, also for 360° synchronous running. 	Flange Couplings Rigid, easily removable shaft coupling with no clearance cone clamping elements. 	Two-part Shrink Discs External clamping connection. Advantages: Simple, secure mounting even without torque wrench. 	Standard Clamping Fixtures Standard programme in high precision, ready manufactured chucks and mandrels. 
Housing Freewheels Automatic engaging and disengaging for multimotor drives for installations with continuous operation. 	Industrial Disc Brakes Spring actuated – electromagnetically released. 	Torque Limiters with Spherical Rollers Reliable overload protection with maximum response accuracy. Also backlash free. 	HELICAL-Flexures Shaft Couplings Design to meet requirements for specific applications. Connecting components can be integrated to save space. 	Three-part Shrink Discs External clamping connection for the fastening of hollow shafts on solid shafts. 	Special Clamping Fixtures Custom made solutions for specific clamping problems. 
Indexing Freewheels For gradual feed of materials. 	Industrial Disc Brakes Pneumatically actuated – spring released. 	Torque Limiters with Friction Linings RINGSTAT Torque Limiter for constant torque. Belleville Spring Torque Limiter for simple release. 	Clamping Clutches For the automatic coupling of rolls. Fast, safe and free from slipping connection. 	Star and Clamping Discs Ideal for shaft-hub-connection for frequent release. 	Collet Mandrels Universal, cost effective standard series. Fast collet change to other clamping diameters. 
Freewheel Elements Cage Freewheels, Sprag Sets and Freewheel Chains. 	Industrial Disc Brakes Hydraulically actuated – spring released. 	Force Limiters Reliable axial overload protection in rods. 	Clamping Units For secure and precise positioning of piston rods. 	Star Spring Washers Axial spring element for preloading of ball bearings. 	Hydraulic Expanding Clamping Tools Mandrels and chucks with high concentricity. Clamping several workpieces in one process possible. 

Que es Importante para Usted?

- Preguntas de Encuesta
 - A. Precio
 - B. Entrega
 - C. Servicio
 - D. Calidad
- Contestacion: Todas las de arriba

La Ventaja Ringspann

Excelente Localizacion:

Schiller Park, Illinois (Suburbio of Chicago)...Capaz de entregar proximo dia a todo Mejico

Empleados de alto conocimiento:

100 anos de experiencia en Embrague Comercial

Excelente Producto:

Trayendo el Lider de la Tecnologia
Embrague Dentado a Mejico

Nuestro Compromiso:

Entregar un producto de calidad a un precio economico
...Entrega a Tiempo...Todo el Tiempo



Que Significa freewheel? Embrague Dentado

- **Pregunta de Encuesta**
 - A. Aparato mecanico que transmite torque en una sola direccion
 - B. Aparato mecanico que transmite torque en ambas direcciones
 - C. Aparato mecanico que permite rotacion libre en ambas direcciones
 - D. Algo que se encuentra en la carretera
- **Respuesta: A**

Tipos de Freewheels Embrague Dentado

- Transmision Positiva
 - Ratchet-pawl “Trinquete”
 - Gear type “Engranaje”
- Transmision por Friccion
 - Roller-ramp “rampa de Rodillo”
 - Sprag “Dentado”

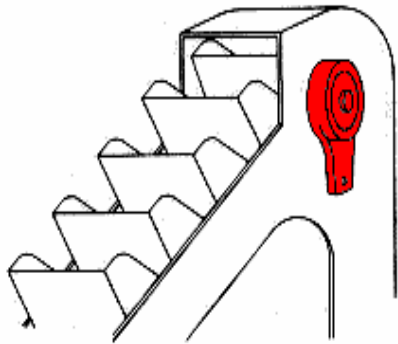
Sprag-Type Freewheel Engranaje Dentado

Conocido como:

- Backstop
- Holdback
- One-way clutch
- Overrunning clutch
- Freewheel clutch
- Cam clutch

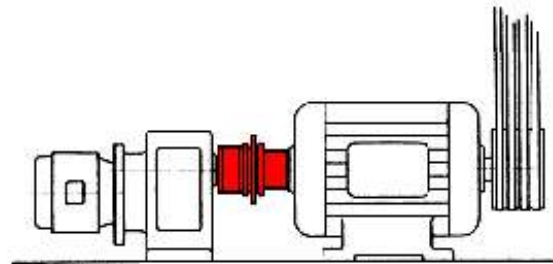


Aplicaciones



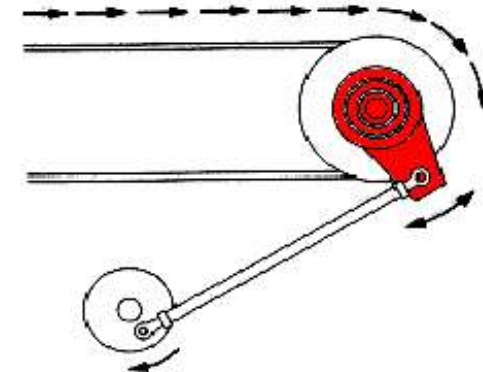
Backstopping:

Evita rotacion
reversa del
equipo



Overrunning:

Provee separacion
automatica entre el
equipo que maneja
y el equipo
manejado



Indexing:

Convierte
mocion rotativa
en mocion
lineal
segmentada

Cont. Aplicaciones

Backstopping

- Conveyor
- Bucket elevators
- Winches
- Fan
- Ski Lifts
- Water Treatment

Overrunning

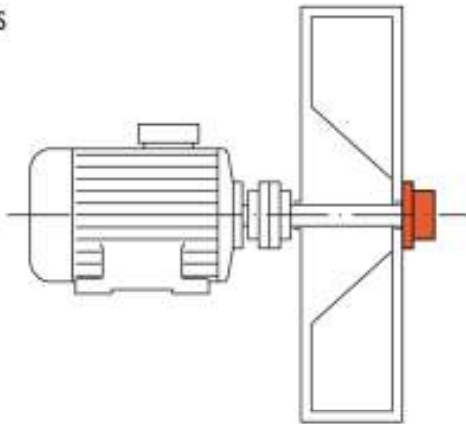
- Dual drives
- Starter drives
- Energy recovery
- Energy release
- Steel slitting
- Pinch rolling

Indexing

- Printing
- Spring making
- Bottling
- Labeling
- Paper converting
- Injection molding

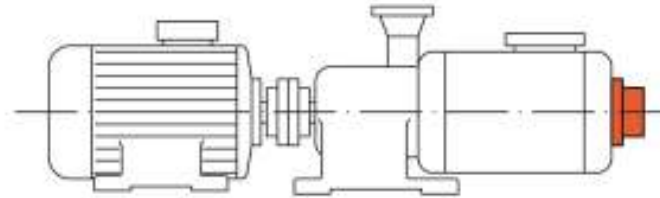
Aplicaciones Prevencion Rotacion Hacia Atras

Fans
Ventilators



The backstop prevents reverse rotation under the back pressure of the conveyed medium if the motor is turned off.

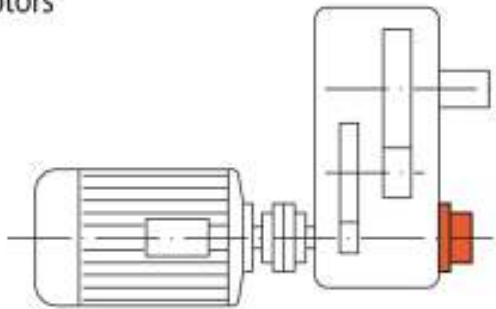
Pumps
Compressors



The backstop prevents reverse rotation under the back pressure of the conveyed medium if the motor is turned off.

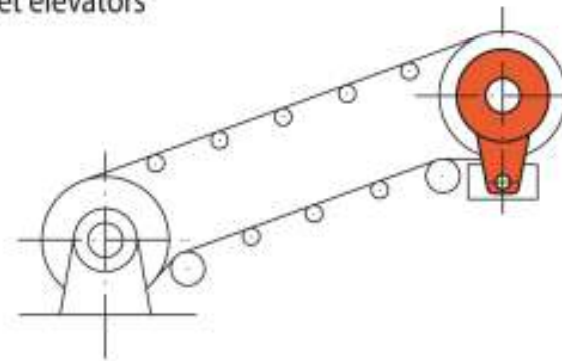
Aplicaciones Prevencion Rotacion hacia Atras

Gear units
Electric motors
Gear motors



The backstop prevents reverse rotation in a drive of a conveyor system when the power fails or the motor is turned off.

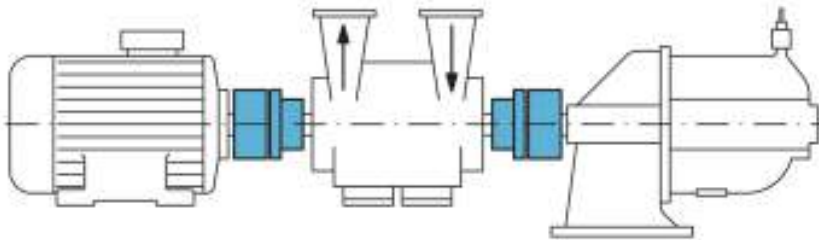
Inclined conveyors
Elevators
Bucket elevators



The backstop prevents reverse rotation of the conveyor load if the power fails or the motor is turned off.

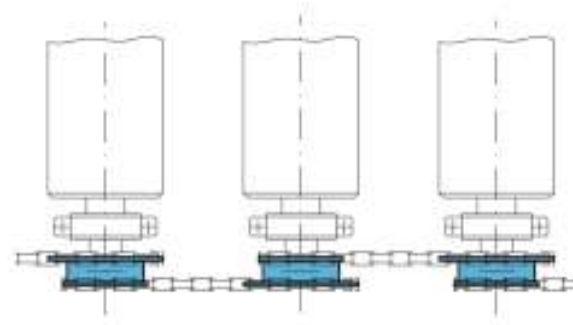
Aplicaciones de Separacion Overrunning

Pumps
Generators



In multimotor drives the overrunning clutch disengages the inactive or lower speed drive.

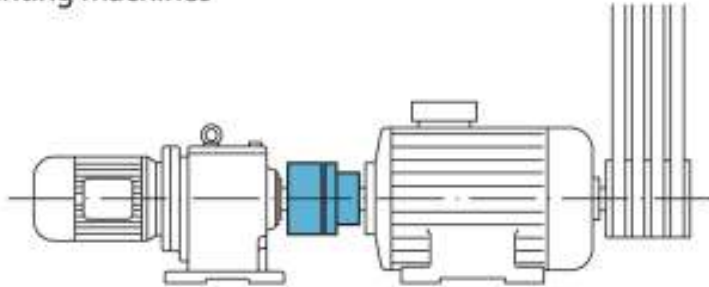
Roller conveyoyor



The overrunning clutch ensures that the conveyed material can be pushed or pulled faster over the rollers than the speed of the drive.

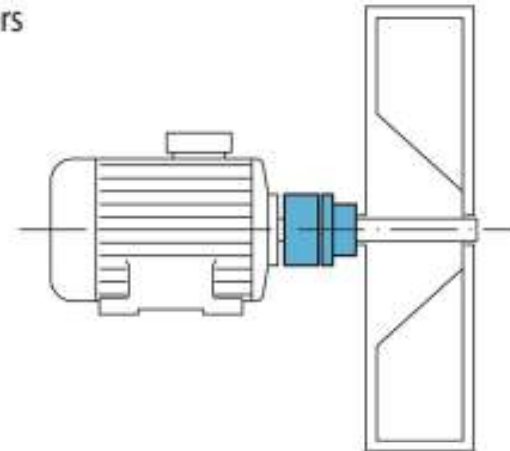
Aplicaciones de Separacion Overrunning

Textile machines
Printing machines



During normal operation of textile or printing machines, the overrunning clutch separates the barring drive which is used for set up from the main drive.

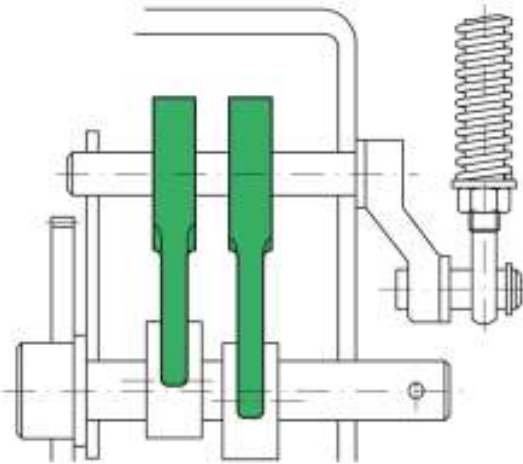
Fans
Ventilators



If fans or ventilators are turned off, the overrunning clutch prevents the flywheel mass from rotating the drive.

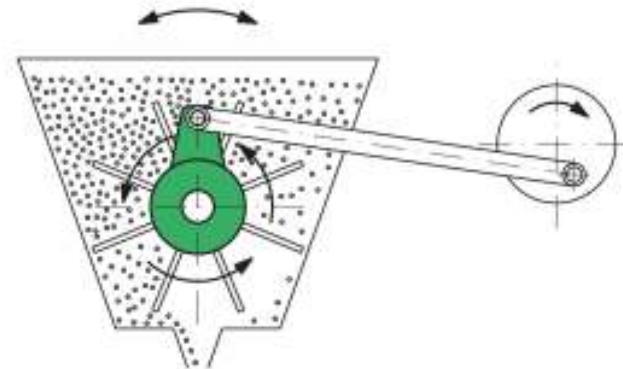
Aplicaciones de Clasificación Indexing

High voltage switches



In high voltage switches for tensioning a spring, the indexing freewheel is used in the place of a reduction gear.

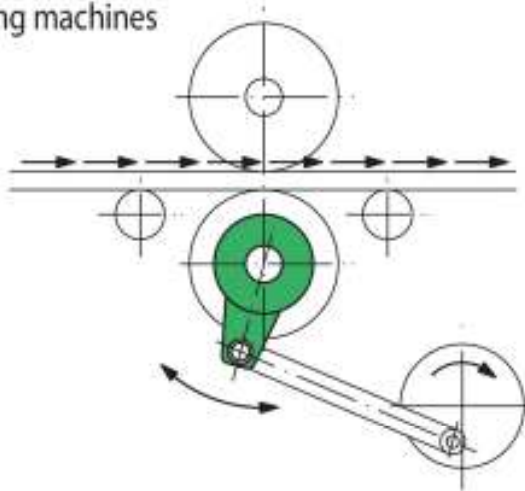
Seed spreader



The indexing freewheel replaces a reduction gear in seed spreader.

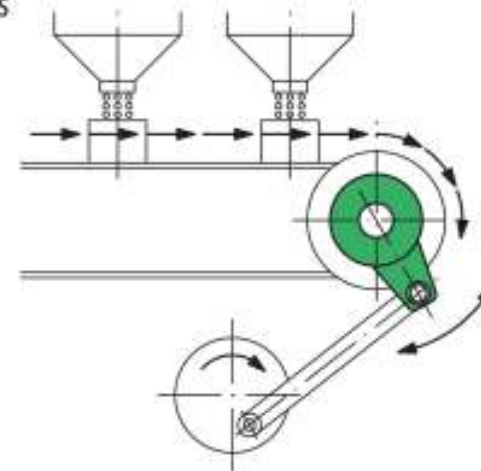
Aplicaciones de Clasificación Indexing

Textile machines
Printing machines



The indexing freewheel generates an indexed feed in textile and printing machines.

Packaging machines
Filling plants



The indexing freewheel is used in packaging machines and filling plants for an indexed feed.

Como Trabaja?

Funcion:

Geometria unica de dientes
permite transmision de torque en
una sola direccion

Beneficios:

- Cero contragolpe
- Diseno Compacto
- Capacidad gran Torque
- Capacidad gran Hueco

