

**Electrohydraulic Thruster Brakes**



**Pin and Bush and Jaw Couplings  
with Brake Disc**



**Emergency Brake Calipers**



## **BRAKING TO MOVE PORTS**

Innovation and reliability for harbour  
cranes

**Brake Control System and  
Condition monitoring**



**Hydraulic Power Units**



# 1. RINGSPANN Introduction

**RINGSPANN®**

## Company

### Company profile

Innovative achievements have made RINGSPANN a leading manufacturer for Power Transmission Components, Clamping Fixtures and Remote Control Systems. Many well-known companies from the machine building, the material handling, the energy as well as the aerospace industries successfully work with RINGSPANN. With more than 80 years' experience in development, design and manufacturing, we are experts in intelligent technical solutions.

From our headquarters in Bad Homburg, Germany, more than 500 employees in 21 international companies provide personal service onsite and ensure speedy and reliable delivery. Manufacturing plants in the most important regions of the world make flexible and customer-oriented production possible.

Customer service is close to our heart; we want you to continue to choose RINGSPANN.

### Headquarters

Bad Homburg, Germany

### Founded

1944

### Subsidiaries

21

### Manufacturing plants

10

### Employees

> 500

### Customers

> 7,500 a year

### Product range

Power Transmission  
Clamping Fixtures  
Remote Control Systems



RINGSPANN GmbH, Germany  
Headquarters and  
Plant Free wheels



RINGSPANN GmbH, Germany  
Plant Brakes, Couplings,  
Clamping Fixtures and Shaft-Hub-  
Connections



RINGSPANN Kempf GmbH,  
Germany  
Plant Universal Joints



RINGSPANN RCS GmbH,  
Germany  
Plant Remote Control Systems

**RINGSPANN®**



RINGSPANN Benelux B.V.,  
Netherlands



RINGSPANN (UK) LTD.,  
Great Britain



RINGSPANN France S.A.,  
France



RINGSPANN IBERICA S.A.,  
Spain



RINGSPANN AG,  
Switzerland



RINGSPANN Italia S.r.l.,  
Italy



RINGSPANN Bosanska Krupa  
I.o.o., Bosnia and Herzegovina



RINGSPANN Power Transmission  
(Tianjin) Co., Ltd., China

RINGSPANN Korea Ltd.,  
South Korea



RINGSPANN Singapore Pte. Ltd.,  
Singapore



RINGSPANN Australia Pty Ltd.,  
Australia

RINGSPANN Sudamérica SpA,  
Chile



RINGSPANN do Brasil Ltda.,  
Brazil



RINGSPANN South Africa (Pty) Ltd.,  
South Africa



RINGSPANN Power Transmission  
India Pvt. Ltd., India

### Key

- Sales company
- Manufacturing plant
- Sales partner

# 1. RINGSPANN Introduction

**RINGSPANN®**

## Freewheels



- Backstops
- Overrunning Clutches
- Indexing Freewheels

## Brakes



- Brake Systems
- Disc Brakes
- Brake Calipers
- Brake Discs

## Shaft-Hub-Connections



- Shrink Discs
- Cone Clamping Elements
- Star Discs
- Clamping Systems for torque motors
- Star Spring Washers/Ball Bearing Compensating Discs

## Overload Clutches



- Safety Couplings
- Positive Torque Limiters
- Friction Torque Limiters
- Force Limiters

## Heavy-duty Couplings



- Gear Couplings
- Universal Joints
- Flange-Couplings
- Grid Couplings

## Industrial Couplings



- Disc Couplings
- Pin and Bush Couplings
- Jaw Couplings
- Beam Couplings

## Precision Clamping Fixtures






- Precision Clamping Chucks
- Precision Clamping Mandrels
- Clamping Clutches

## RCS® Remote Control Systems






- Push/Pull Cables
- Bowden Cables
- Control Cables
- Control lever systems
- Throttle pedal systems

### The Current Port Context:




-  Increasing automation in terminals
-  Critical need for reliability and safety
-  Every second counts in logistics operations

### The Brake: A Critical Component

-  Ensures safety in all crane operations
-  Enables controlled emergency stops
-  Provides precise load positioning and hold



### Extreme Port Conditions

-  Aggressive marine environments
-  Humidity, salinity, airborne dust
-  Simple, reliable maintenance is essential

**The solution is...**






### 3. Our solution

**RINGSPANN®**














## Our Solution: DX 280 Brake

-  Braking force up to **80.000 N**
-  Lightweight, no crane needed for maintenance
-  Direct retrofit into existing systems

## How Do We Compare?

-  Lower weight, higher force
-  Better force distribution and durability
-  Longer lifespan, lower maintenance costs
-  Easily fits existing structures

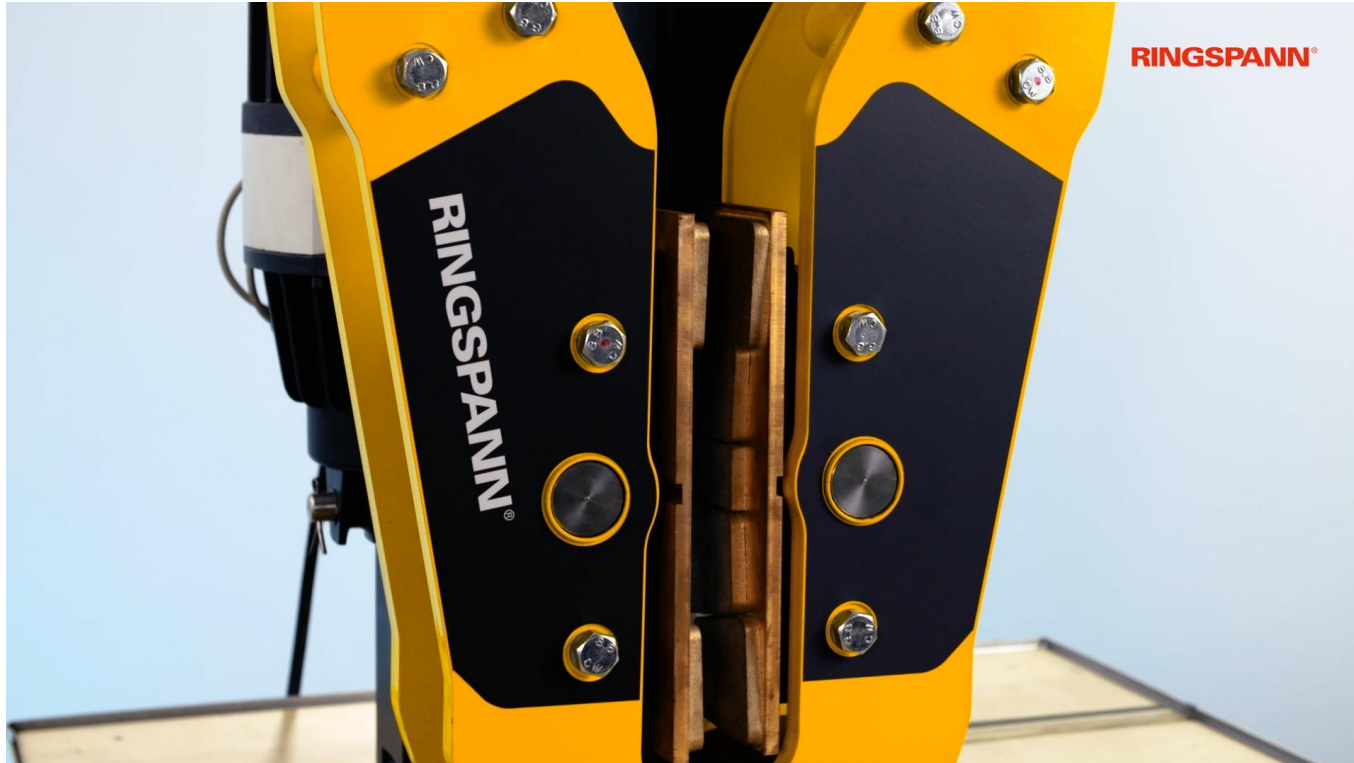
## Benefit for Port Operators

-  Unplanned downtimes → **Fewer**
-  Operating costs → **Lower**
-  Installation and replacement → **Quicker**
-  Downtime and interventions → **Reduced**
-  Maintenance design → **Friendly**

## Steel levers



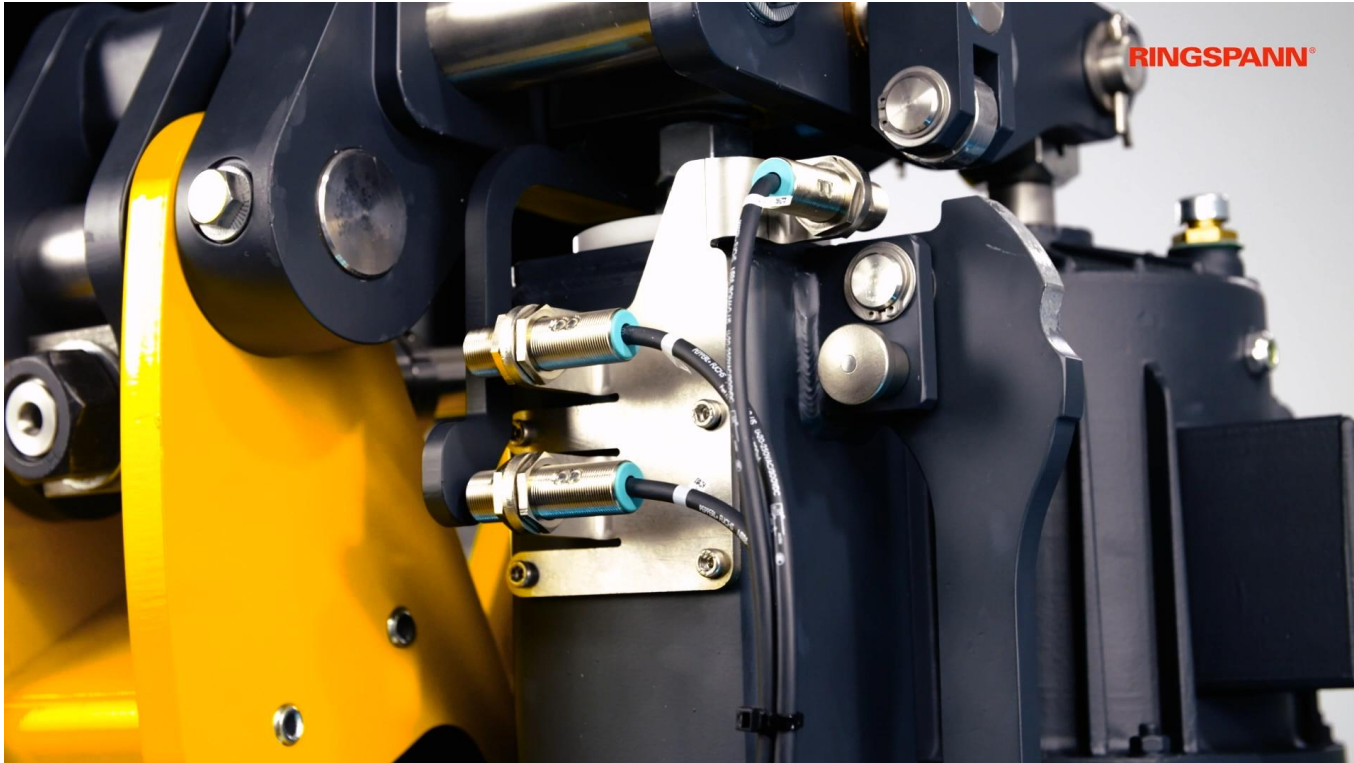
## Parallel opening of the brakepads



## Self-centering

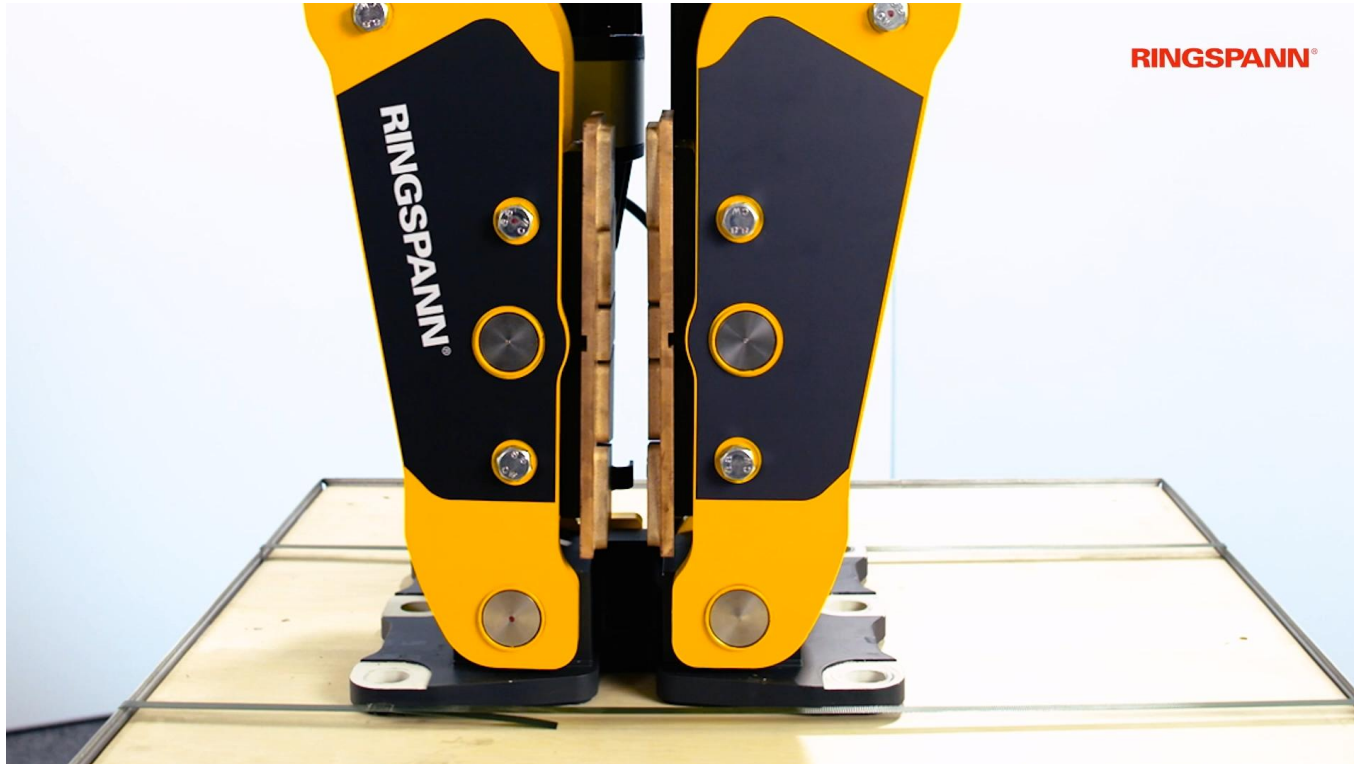


## 4 Sensors








## Interchangeability



### Conclusion

-  Technology that drives logistics forward
-  Smart braking is essential for safe operations
-  RINGSPANN: your partner for reliable port systems

Thank You

