

Always the best in class joints for your current and future flooring requirements



Flooring requirements continue to evolve with increasing traffic and rack loads

### TRAFFIC loads (dynamic)





Your current and future flooring requirements determine what joint is needed *HCJ offers a range of best in class joints that will ensure the optimal strength & performance* 

## TRAFFIC loads (dynamic)



![](_page_2_Picture_3.jpeg)

Performance issues in floors arise over time when the joints can't handle the loads Choosing the right joints for your project is very important, but not easy

![](_page_3_Figure_1.jpeg)

### **Total loads on the floor**

![](_page_3_Picture_3.jpeg)

The strength of the floor is determined by how two slabs are **connected** *The difference between joint solutions is made below the surface* 

![](_page_4_Figure_1.jpeg)

Loads concentrated on few points with plastic sleeves that leave tolerance to move, making the floor **vulnerable** for curling, deflection and damages in the end Loads handled over the entire length, making the floor **much stronger** 

Loads handled by the floor itself, making the floor **extremely strong**  The floor strength is also determined by how the joint is "**anchored**" to the slab *Again the difference between joint solutions is made below the surface* 

![](_page_5_Picture_1.jpeg)

Slab anchored with repeating horizontal pins making the connection **vulnerable** 

![](_page_5_Picture_3.jpeg)

#### **Continuous 3D anchorage**

(e-straight / e-slide / Cosinus)

![](_page_5_Picture_6.jpeg)

Slab anchored in 3D with continuous string, making the connection **extremely strong** 

# Our best in class joint solutions will meet all your performance requirements

![](_page_6_Figure_1.jpeg)

![](_page_6_Picture_2.jpeg)

Therefore we offer a design review to determine the most cost-effective joint for your project and often we find ways to further optimize the entire floor

![](_page_7_Figure_1.jpeg)

![](_page_7_Picture_2.jpeg)

# By applying the right joint you can realize long term cost savings

30.000 m<sup>2</sup> floor case

		Traditional straight joint	Cosinus slide joint
Joints	Cost per m <sup>2</sup>	€2,5	€4
	Total cost	€75.000	€120.000
Concrete	Floor thickness	22 cm	20 cm
	Total cost	€990.000 <sup>1</sup>	€900.000
Usage 10 yrs	Inefficient traffic	€200.000 <sup>3</sup>	-
	Floor repairs <sup>4</sup>	€50.000	-
	Total cost	€1.315.000	€1.020.000 (-22%)
	<ul> <li>x Limited rack placement (97% effective floor space)</li> <li>x Wheel damage</li> </ul>		<ul> <li>✓ Free rack placement (100% free floor space)</li> <li>✓ No wheel damage (25% less replacement costs)</li> <li>✓ Free design check to calculate your savings</li> </ul>

![](_page_8_Picture_4.jpeg)