

CRC – Clean room chain

Use of the product

- The igus® e-chain especially developed for the clean room
- IPA certified for use in clean room class1 areas
- Abrasion-resistant outer jacket
- High speeds possible
- Defined bending radius
- Tight mounting brackets
- Application specific strain relief



Possible application areas

- Clean room applications
- Pick & Place
- Circuit board assembly
- Semiconductor production
- Automobile production
- Paint shops



Product description - Design

The igus® CRC clean room chain works with an abrasion-resistant oval corrugated tube which hinders all potential abrasion. Inside the corrugated tube is an E6 e-chain which guides the filling and defines the bending radius. It can be extracted completely from the tube and so be filled easily. Afterwards it is retracted in the tube and fixed with the mounting brackets. Additionally the PU blocks for strain relief are assembled in the mounting bracket. They guarantee a safe strain relief of the cables and secure a tight closing of the clean room chain at the mounting brackets.

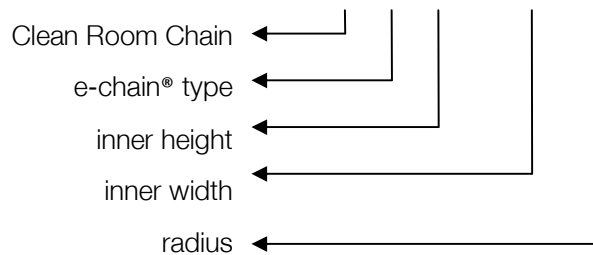
Article numbers

At the moment we are working on 3 sizes of the clean room chain. They use the widths 040, 080 and 120mm of E6.29. The chain is always delivered with mounting bracket.

How the article number is structured:

Here an example to show how the article number is structured:

CRC.E6.29.040.075.01.0



Technical data

The dynamic limits of CRC depend on the limits of E6.29. It can therefore be used in high speed applications.

The load values are reduced a bit by the weight of the outer protection tube.

Max. speed v	20m/s
Max. acceleration a	200m/s ²
Max. travel length s	1,1m
Max. filling weight	2,5kg/m
Temperature range	-40°C bis +70°C

Measurements

The inner dimensions of the CRC clean room chain are defined by the used E6.29 chain, while the outer dimensions and the minimum bending radius are defined by the used corrugated tube.

	CRC.E6.29.040.01.0	CRC.E6.29.080.01.0	CRC.E6.29.120.01.0
H (R=75)	209mm	209mm	214mm
H (R=100)	259mm	259mm	264mm
H (R=150)	359mm	359mm	364mm
Bi	40mm	80mm	120mm
Ba	102mm	123mm	180mm
Hi	28mm	28mm	28mm
Ha	59mm	59mm	64mm