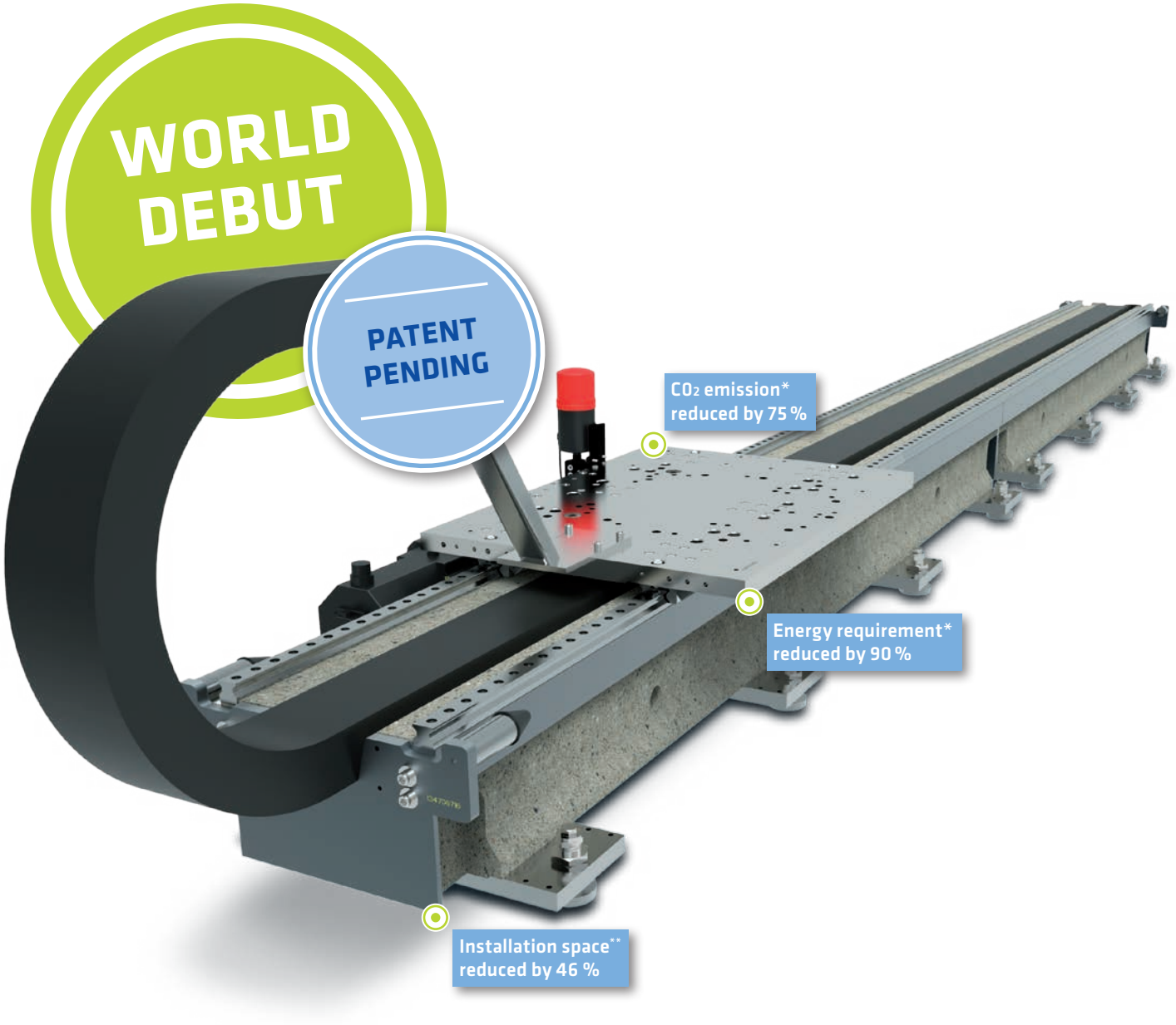
7TH AXES MADE OF COMPOSITE CONCRETE

RC-SERIES



IPR
INTELLIGENTE PERIPHERIEN FÜR ROBOTER

* Compared to a 7th axis base body made of steel
** If equipped with inside cable carrier

Our unique world debut shifts boundaries. And robots – more efficient than ever.

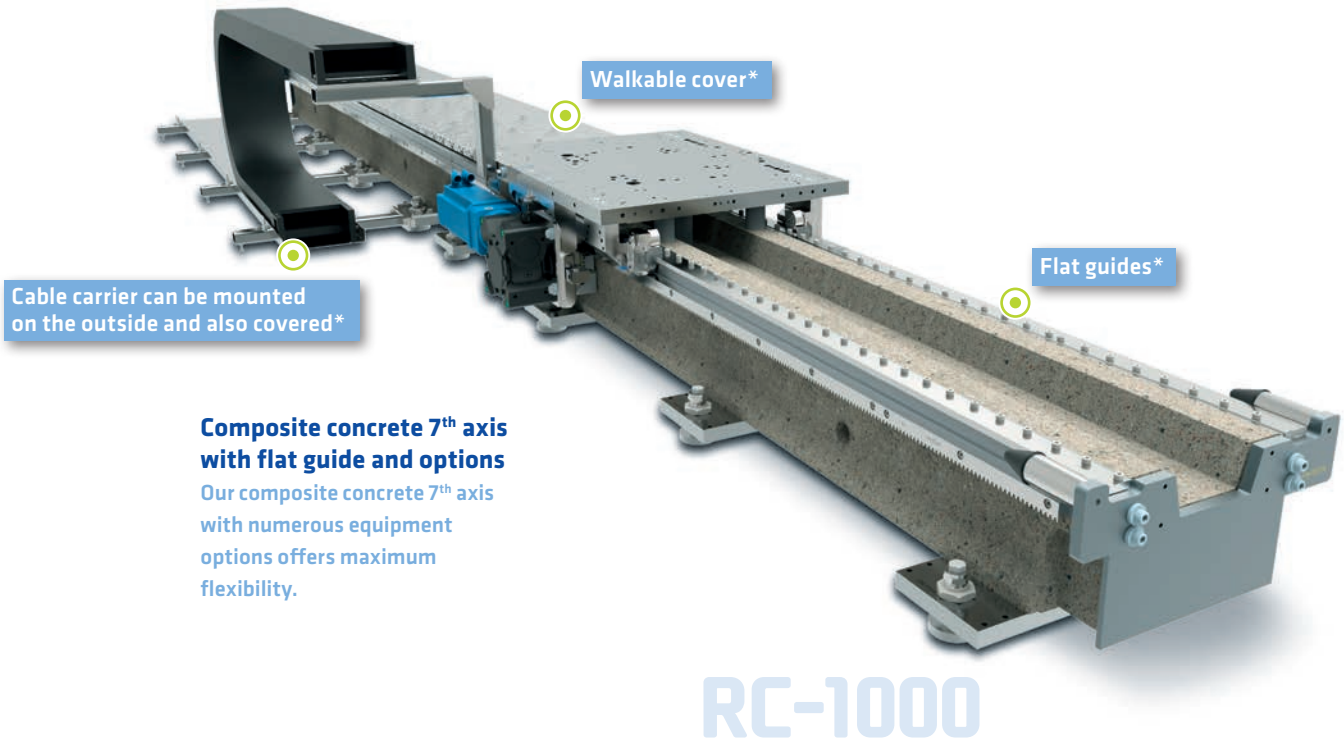
The first 7th axis worldwide made of composite concrete defines a completely new product generation.

IPR revolutionizes the 7th axis

Something unique: IPR's 7th axis with a base body made of composite concrete instead of metal. This product innovation by IPR offers only advantages: As a cost-effective solution, it requires a smaller installation area. It is also sustainable, quiet and torsion-resistant, with low vibration levels. Another advantage: it can be selected between a flat guide and profiled rail guide.

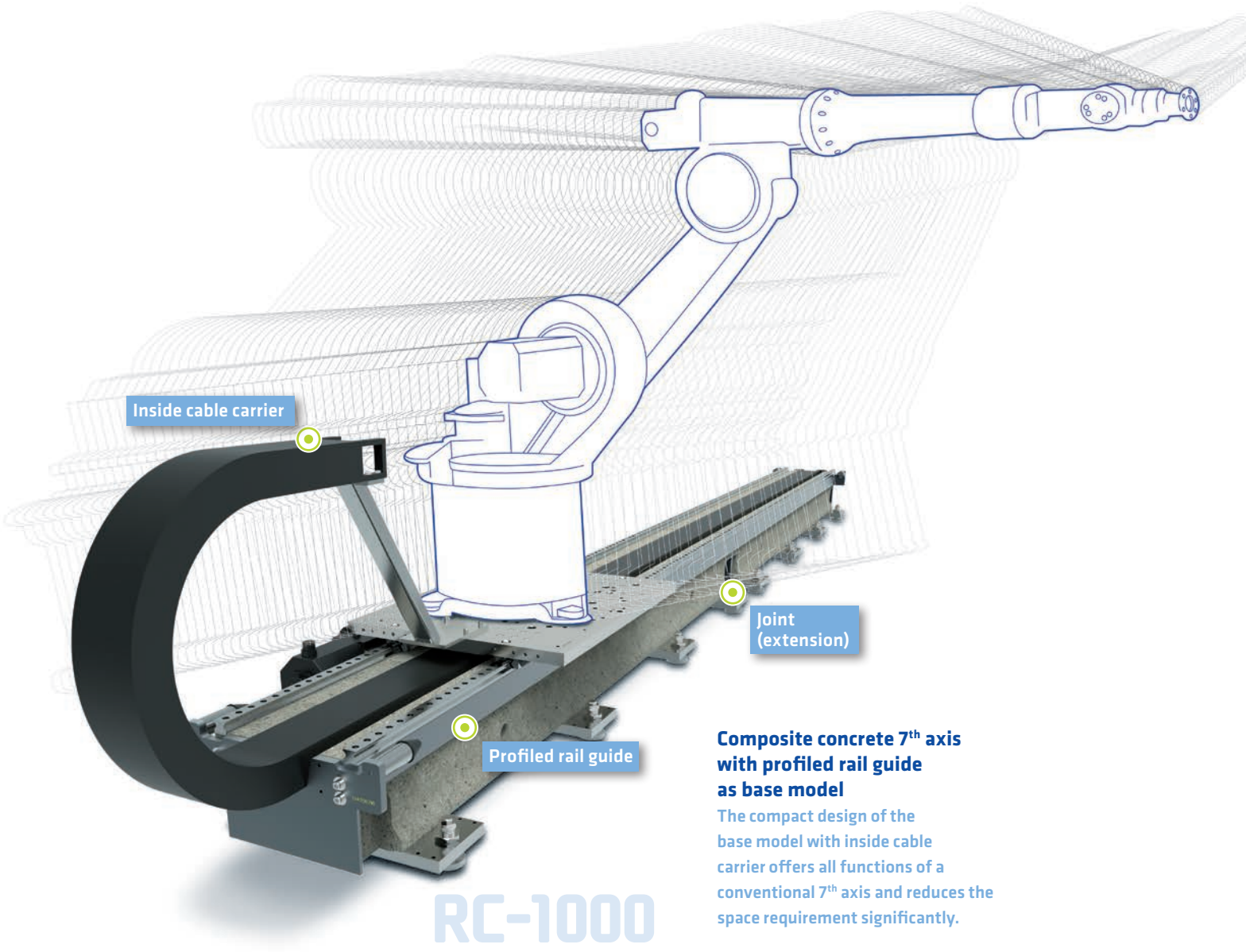
WITHOUT COMPETITION

- Excellent life cycle assessment
- Extremely small installation space
- Torsion-resistant
- Low vibrations
- Very quiet
- 2 variants for 80 % of all robots
- Very cost-effective



Composite concrete 7th axis with flat guide and options
Our composite concrete 7th axis with numerous equipment options offers maximum flexibility.

* available as option



Composite concrete 7th axis with profiled rail guide as base model

The compact design of the base model with inside cable carrier offers all functions of a conventional 7th axis and reduces the space requirement significantly.

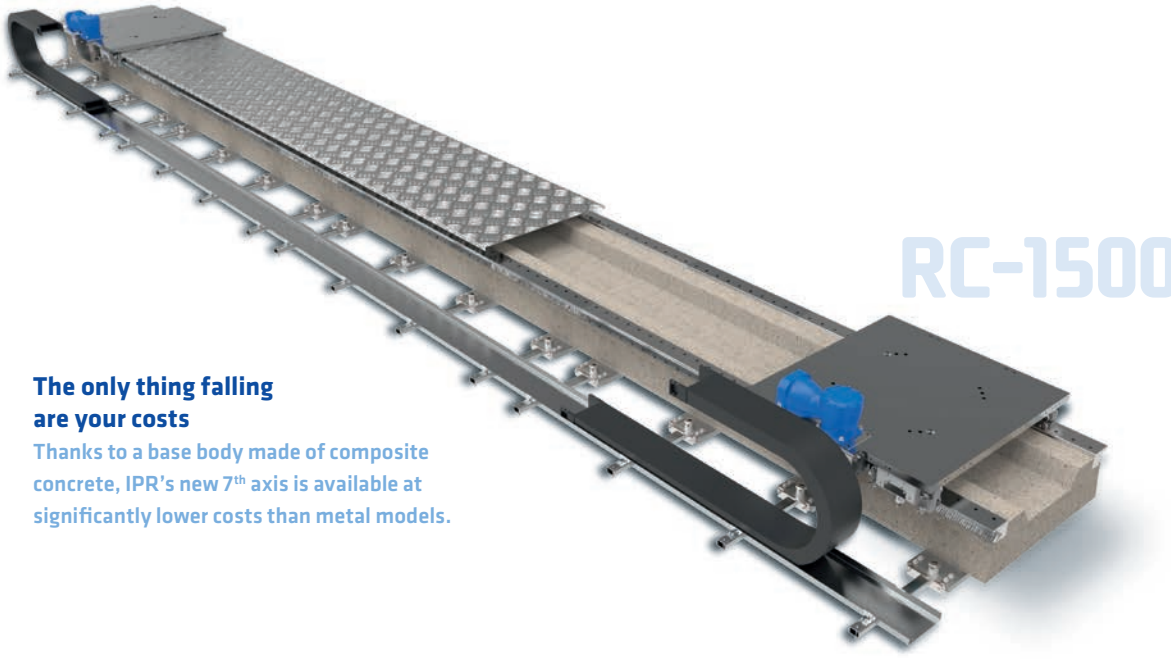
Composite concrete: Your robots stand on it – very safely.

IPR starts their new RC product class with the two 7th axis models RC-1000 and RC-1500 cast from high-quality composite concrete. The two variants are suitable for 80 % of all robots. The maximum load capacity of the RC-1000 is 15,000 N with a bending moment of 15,000 Nm. The maximum load capacity of the RC-1500 is 50,000 N with a bending moment of 72,000 Nm. Both models feature a repeatability of +/- 0.1 mm and travel at a maximum velocity of 3 m/s and with an acceleration of 4 m/s² (depends on gear and motor provided by customer).

Compared to metal, composite concrete has a significantly smaller CO_2 footprint: approx. 75 % less CO_2 and 90 % less energy required compared to a 7th axis base body made of steel. In addition, composite concrete is torsion-resistant. This means that the dynamic motions of a robot lead to less bending of the 7th axis. Furthermore, both RC-1000 and RC-1500 are free from silicone and can be used in special areas such as paint shops.

This is it – the future of the 7th axis.

Everyone who knows the product, loves it – except the competition.



RC-1500

The only thing falling are your costs

Thanks to a base body made of composite concrete, IPR's new 7th axis is available at significantly lower costs than metal models.

	RC-1000	RC-1500
Material	Composite concrete	Composite concrete
Profile	Single profile	Single profile
Guides	Profiled rail or flat guide	Profiled rail or flat guide
Width × height[1,2]	approx. 840 mm × 400 mm	approx. 1,400 mm × 530 mm
Mass / m rail	approx. 300 kg	approx. 865 kg
max. travel velocity[3]	3 m/s	3 m/s
max. acceleration[3]	4 m/s²	4 m/s²
max. load capacity[4]	15,000 N	50,000 N
max. bending moment (Mz)[4]	22,000 Nm	72,000 Nm
Repeatability	+/- 0.1 mm	+/- 0.1 mm
Robot examples	ABB IRB2600 / IRB 4600 FANUC M20 / M710 KUKA KR16 / KR30 / KR60 Stäubli TX 2-90 / RX160	ABB IRB6600 series, IRB6700, IRB7600 FANUC R2000 KUKA Quantec series Stäubli TX200

1) Width with inside cable carrier | 2) Height from floor to top edge of carriage | 3) Dependent on motor provided by customer | 4) Per carriage

The figures speak for the new RC series. As do our customers.

90 %

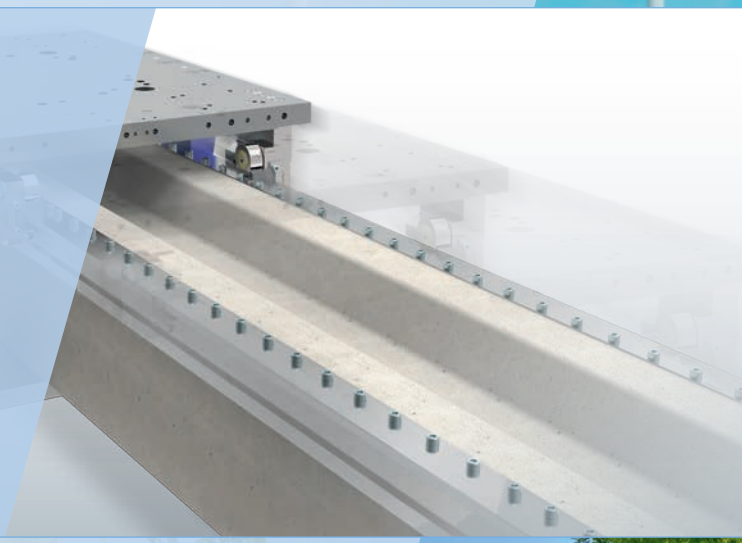
90 % less energy requirement*

Efficiency and social responsibility must not be mutually exclusive.

46 % smaller installation space

The inside cable carrier reduces the space requirements significantly.

46 %



75 %

75 % less CO_2 emission*

Resource-saving products for more sustainability in your company.

* Compared to a 7th axis base body made of steel

INTELLIGENTE
PERIPHERIEN FÜR ROBOTER

IPR – Intelligente Peripherien für Roboter GmbH

Jakob-Dieffenbacher-Str. 4/2
75031 Eppingen
Germany

T +49 7262 9239-100
F +49 7262 9239-400

info@iprworldwide.com
www.iprworldwide.com

We are represented across the Globe.

USA
IPR Robotics, Inc.
2673 American Drive
Troy, MI 48083
T +1 248 556-7556
F +1 248 556-7560
sales@iprrobotics.com

Mexico
Intellum, S.A. de C.V.
Av. Central 206, 1er piso
Col. San Pedro de los Pinos
Del. Alvaro Obregon, CP 01180
T +52 55 5668 6063
F +52 55 5668 6079
info@iprmexico.com

China
IPR GmbH
China Representative Office
Room C2119, Tomson Center
No 188, ZangYang Road
Pudong, Shanghai 200120
T +86 21 5876 9833
F +86 21 5876 9941
zd.huang@ipr-soehner.sina.net

More contacts can be found under:
www.iprworldwide.com

engineered and made in Germany

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