

Collaborative solutions in production technology



HRC - Human- Robot- Collaborator

In industry 4.0 concepts people are the main actors and they work with robots hand in hand.

ConTrax **Mobile Robot 4.0** **Production assistant** of the future

The times of static production sites have passed.

In human-robot collaborations, the robot assists the human during work. That means the robot takes over parts of the work such as heavy duties and overhead assembly. Therefore difficult and mostly manually carried out duties can be more economically automated.

Humans and robots work hand in hand, so to speak. There is no separation between automated and manual workplaces anymore. Humans and robots work collaboratively and optimally together – without separation or protective fences.

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BÄR

BÄR Automation GmbH
Gottlieb-Daimler-Str. 6
75050 Gemmingen, Germany

T +49 (7267) 9127-0
F +49 (7267) 9127-24
info@baer-automation.de
www.baer-automation.de

Production assistant of the future



ConTrax **Mobile Robot 4.0**

The modular platform for the mobile robots of the future

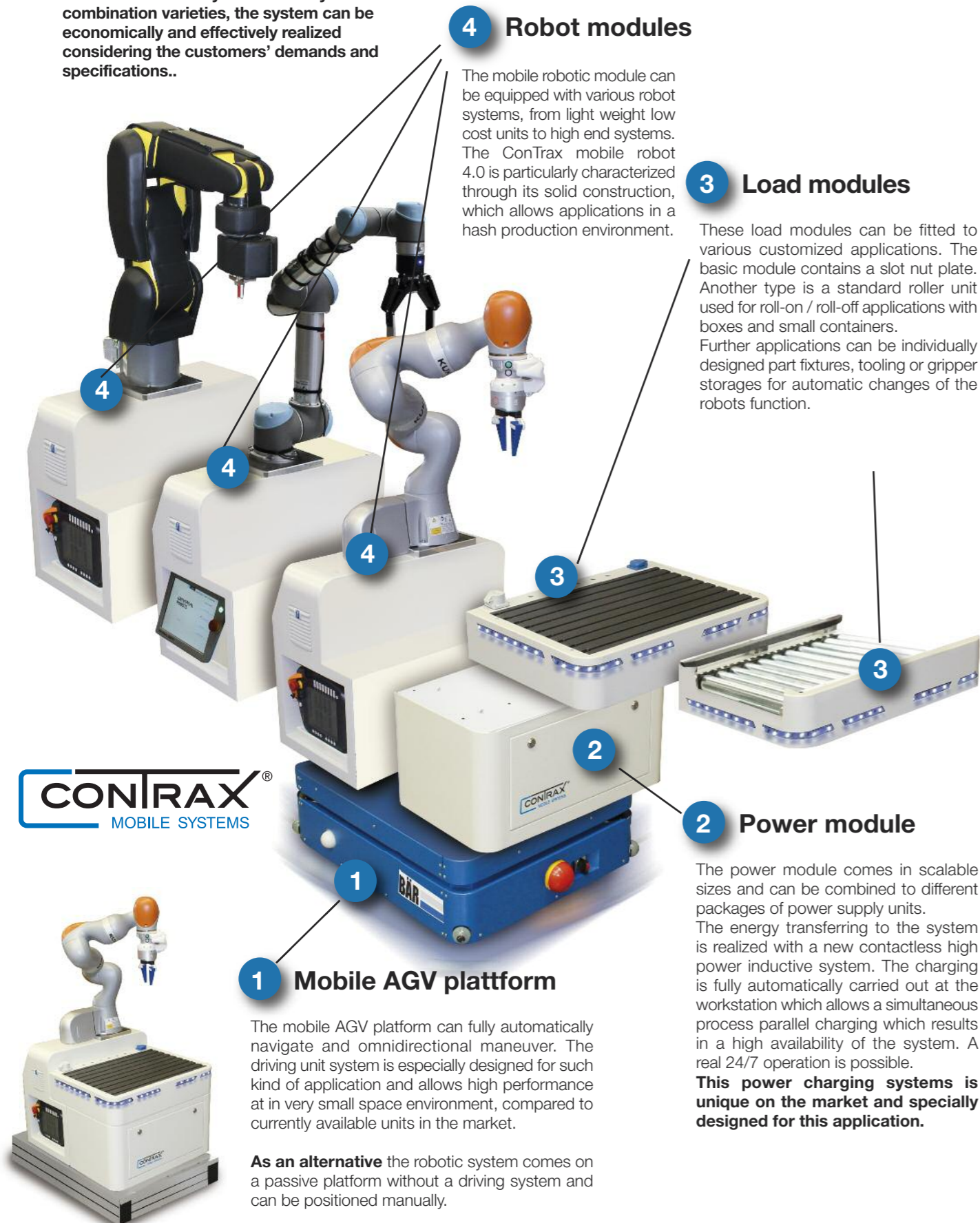
The new **mobile production assistant** makes the collaborative robot (HRC) mobile and is designed to work together with the employees at the production and work places.

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ConTrax Mobile Robot 4.0

The modular platform for the mobile robots

Due to its modularity and the many combination varieties, the system can be economically and effectively realized considering the customers' demands and specifications..



4 Robot modules

The mobile robotic module can be equipped with various robot systems, from light weight low cost units to high end systems. The ConTrax mobile robot 4.0 is particularly characterized through its solid construction, which allows applications in a hash production environment.

3 Load modules

These load modules can be fitted to various customized applications. The basic module contains a slot nut plate. Another type is a standard roller unit used for roll-on / roll-off applications with boxes and small containers. Further applications can be individually designed part fixtures, tooling or gripper storages for automatic changes of the robots function.

2 Power module

The power module comes in scalable sizes and can be combined to different packages of power supply units. The energy transferring to the system is realized with a new contactless high power inductive system. The charging is fully automatically carried out at the workstation which allows a simultaneous process parallel charging which results in a high availability of the system. A real 24/7 operation is possible. **This power charging systems is unique on the market and specially designed for this application.**

1 Mobile AGV platform

The mobile AGV platform can fully automatically navigate and omnidirectional maneuver. The driving unit system is especially designed for such kind of application and allows high performance at in very small space environment, compared to currently available units in the market.

As an alternative the robotic system comes on a passive platform without a driving system and can be positioned manually.

Production assistant of the future



A well thought-out safety concept of the system enables a collaborative and a cooperative operation with humans at the work environment.

ConTrax Mobile Robot 4.0 – a maximum of flexibility in the production

In fully automatic operations, the mobile robot can approach pre-programmed workstations to take over tasks such as the loading and unloading of processing stations.

In semi-automatic operation, a convertible system can also be used, which is pushed to a workstation on a manual platform under the Robot Farming aspect. There, the robot takes on new tasks every day by briefly teaching in and saving the process.