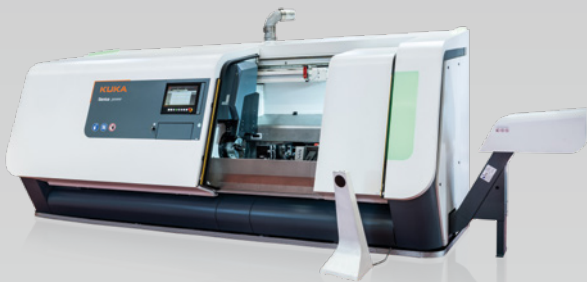


Wide range of type variants to meet every requirement

Depending on your requirements and the spectrum of products to be manufactured, KUKA supplies the friction welding machines of the Genius family in the following type variants:



_KUKA Genius

The bestseller for a wide range of applications



KUKA Genius eco®
The basic entry-level model for simple welding tasks.



KUKA Genius plus®
The mid-range model with automatic backstop adjustment for even greater productivity.



KUKA Genius power®
The fully equipped variant with a high-performance drive for the most challenging material combinations and angle positioning.



_KUKA Genius V

The special vertical version for small footprints



KUKA Genius V plus
The special vertical version for customers requiring a small footprint.



_KUKA Genius D

The versatile double-head machine for one-pass productivity



KUKA Genius D power
The versatile, fully equipped double-head machine for one-pass productivity.

Compact, modular friction welding machine

The KUKA Genius family

The launch of the KUKA Genius single-head machine in 2015 laid the foundation stone of the KUKA Genius product family. Several versions have been added since then, all based on the same machine platform. Together they form a new modular machine generation for friction welding processes in the force range of 12 – 300 kN. These flexible all-rounders can be configured for both simple and complex friction welding tasks according to customer requirements and are therefore a secure investment for the future in times of rapidly changing markets.

Convincing advantages



Custom-tailored complete solution

- Sophisticated hydraulic system
- Various **performance classes**
- Very large speed/load range for a **wide** spectrum of components



Simple installation...

- **Plug & play** solution
- Elimination of external control cabinets* for **quick installation**

*except Genius V (which has standalone electrical cabinet)

KUKA Genius



Simple & ergonomic operator control

- Easy access, lightweight operator doors and a **large workspace**
- Touch panel with state-of-the-art graphical user interface
- **Intuitive** operation



Energy-efficient

- Up to **20 % energy savings** due to electronically controlled hydraulic system
- and drive technology with particularly low mass inertia



...in a minimum of space

- Low floor space requirements & **compact design**
- Optimal utilization of the available floor space



Utmost accuracy

- Outstandingly **high precision & weld quality**
- Precise bearing technologies, pre-tensioned roller guides & a **stress-optimized machine bed**



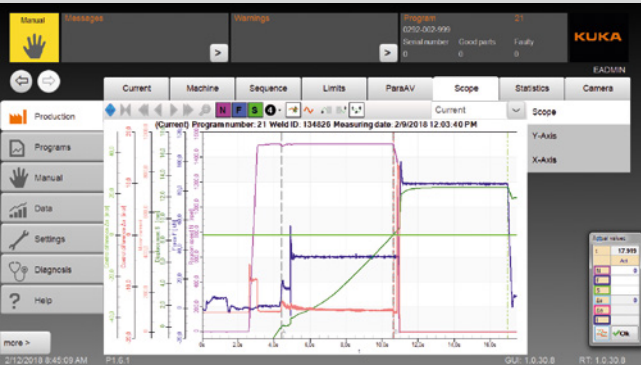
Ease of servicing and minimal maintenance

- **Robust** components
- Largely **wear-free direct drive** and long lubrication intervals
- **Generously dimensioned maintenance doors**
- KUKA RemoteService



Industrie 4.0

- **Extensive sensor equipment** for monitoring the machine & the welding process
- **Standardized** interfaces for evaluation in the cloud
- Result: **greater productivity** and **data transparency**

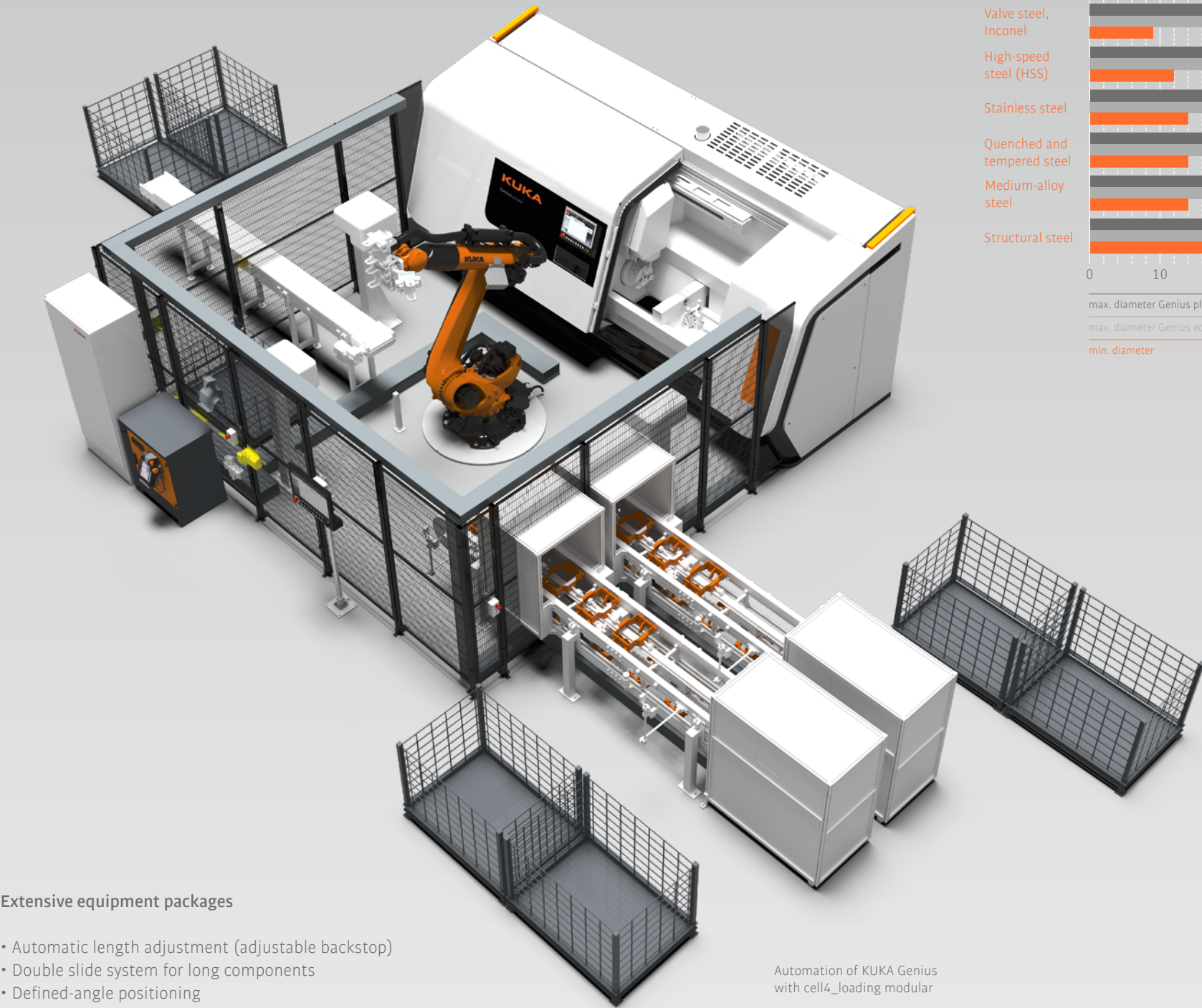


Operator panel

Intuitive operation and control

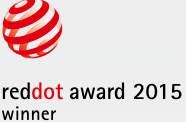
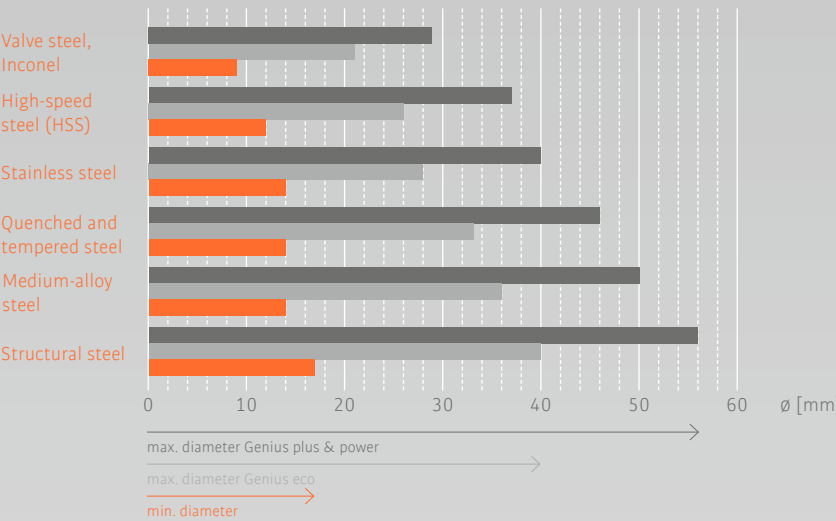
Operator control is carried out intuitively via a touch panel with a modern graphical user interface that can be operated while wearing safety gloves. The user interface provides the following functions:

- **Welding program management:** user-friendly configuration and setting of the welding process, management of up to 1,000 welding programs
- **Control & monitoring:** all parameters of the welding process controlled and monitored with millisecond accuracy via tolerance limits and envelope curves
- **Presentation of values and status:** display of the actual values and parameters as well as the current status in plain text, graphical representation of current and archived parameter profiles
- **Documentation:** documentation of the welding results by means of database, printer, PDF export or database interface
- **Quality management:** full traceability via data matrix code. Weld data are assigned to the individual components. Comprehensive quality reports are available directly or via interfaces.



Automation of KUKA Genius with cell4_loading modular

KUKA Genius rotational friction welding machines
Welding ranges (solid materials)



We can be found locally all over the world:

Argentina	Malaysia
Australia	Mexico
Austria	New Zealand
Belgium	Norway
Brazil	Poland
Canada	Portugal
Chile	Russia
China	Sweden
Czech Republic	Switzerland
Germany	Singapore
Hungary	Slovakia
France	Spain
Great Britain	South Africa
India	Taiwan, China
Italy	Thailand
Japan	Turkey
Korea	USA

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