

## 6 AXES ROBOTS



### Floor Mounted- 6 Axes Robots.

- Efficient and flexible, capable of handling complex parts insertion, parts removal and downstream processes.



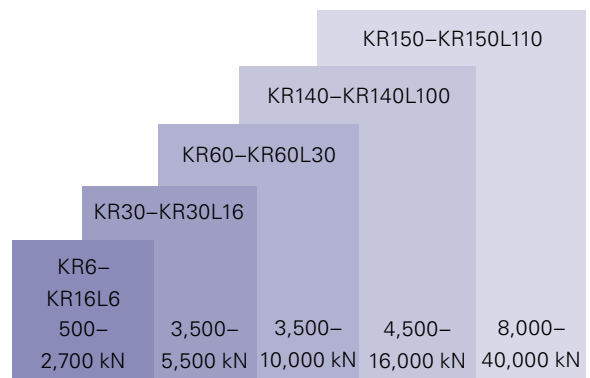
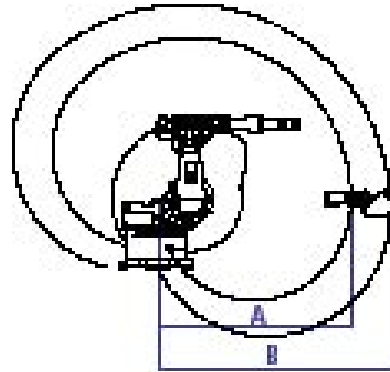
- High rigidity to ensure precise positioning and high speed.
- High load capacity > 100 kg.

- The Battenfeld plastics processing package has been optimized to combine 6 axes robots with Battenfeld injection molding machines (see standard package).
- High operational availability:  
Service interval every 20,000h for 2,000 series.
- 3-D simulation for quick-response and low-cost planning (option).
- High-performance removal facility to handle bulky parts (with undercut).
- Cost savings through reduction of peripheral equipment (for cutting, deflashing, milling, scarfing, etc.).
- Suitable for cleanroom applications.
- The gripper adapter module for safe operation and easy adaptation of gripper functions.



# 6 Axes Robots-Technical Data

Robot type	A Operating range to center A5, mm	B Operating range to gripper adapter module, mm	Load capacity kg
KR6	1,611	-	6
KR16	1,611	-	16
KR16L6	1,911	-	6
KR30-3	2,033	2,273	30
KR30L16	3,102	3,342	16
KR60-3	2,033	2,273	60
KR60L45-3	2,230	2,470	45
KR60L30-3	2,429	2,669	30
KR140	2,400	2,790	140
KR140L120	2,600	2,990	120
KR140L100	2,800	3,190	100
KR150	2,700	3,090	150
KR150L130	2,900	3,290	130
KR150L110	3,100	3,490	110
KR180	2,700	3,090	180
KR180L150	2,900	3,290	150
KR180L130	3,100	3,490	130
KR210	2,700	3,090	210
KR210L180	2,900	3,290	180
KR210L150	3,100	3,490	150



## Standard package

Base anchoring kit

Control panel for basic robot functions (start, stop, home position, cycle start, end of cycle)

2 clamping circuits

2 vacuum circuits

EUROMAP 67 interface

Conveyor belt interface

Interface for control gate of protective encasing

8I/8O, 24 V DC interface for external ancillary equipment

Mechanical safety barrier for axis 1

Hand-TECH gripper software: control of all gripper functions in plain text mode

Integrated Soft-PLC control system for monitoring and control of external periphery

## Options (selection)

Clamping and vacuum circuits

Manual high-speed gripper exchange system including two base plates, 160 x 160 mm or 250 x 250 mm

Gripper adapter module from KR30-3 controlled via CANbus system, 16 digital input ports

Additional gripper auxiliary axis functions (end-position controlled)

Protective encasing with control gate (from 16,000/...kN mounted on platform)

Adaptive synchronization with closing and opening strokes

Teleservice interface

Manual control unit range extended to 40 m (standard: 10 m)

Electrical operating area monitoring for axes 1 and 2

Passive transport mode for ejection movement by additional 7th axis

## 6 AXES ROBOTS



### 6 Axes- Shelf Mounted Robots.

- Efficient and flexible, capable of handling complex parts insertion, parts removal and downstream processes.



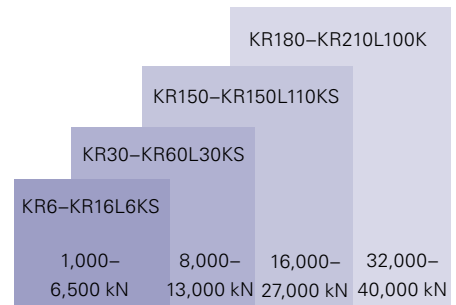
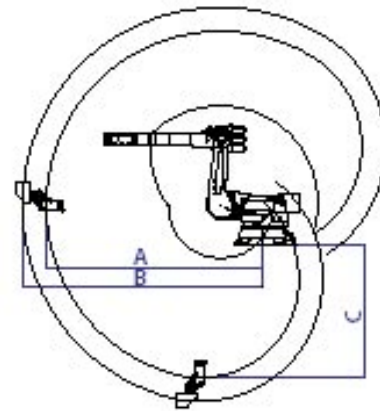
- High rigidity to ensure precise positioning and high speed.
- High load capacity > 100 kg.
- Space saving automation.

- The Battenfeld plastics processing package has been optimized to combine 6 axes robots with Battenfeld injection molding machines (see standard package).
- High operational availability:  
Service interval every 20,000h for 2,000 series.
- 3-D simulation for quick-response and low-cost planning (option).
- High-performance removal facility to handle bulky parts (with undercut).
- Cost savings through reduction of peripheral equipment (for cutting, deflashing, milling, scarfing, etc.).
- Shelf mounted robots are recommended for production halls with low ceilings.
- The gripper adapter module for safe operation and easy adaptation of gripper functions.



# 6 Axes Robots-Technical Data

Robot type	A Operating range to center A5, mm	B Operating range to gripper adapter module, mm	C Operating range downward to center A5, mm	Load capacity kg
KR6KS	1,801	-	1,105	6
KR16KS	1,801	-	1,105	16
KR16L6KS	2,101	-	1,405	6
KR30-3KS	2,233	2,473	1,402	30
KR60-3KS	2,233	2,473	1,402	60
KR60L45-3KS	2,433	2,673	1,600	45
KR60L30-3KS	2,628	2,868	1,800	30
KR150K	3,100	3,490	1,575	150
KR150L130K	3,300	3,690	1,775	130
KR150L110K	3,500	3,890	1,975	110
KR180K	3,100	3,490	1,575	180
KR180L150K	3,300	3,690	1,775	150
KR180L130K	3,500	3,890	1,975	130
KR180L100K	3,700	4,090	2,175	100
KR210K	3,100	3,490	1,575	210
KR210L180K	3,300	3,690	1,775	180
KR210L150K	3,500	3,890	1,975	150
KR210L100K	3,900	4,290	2,375	100



## Standard package

Adapter plate on Battenfeld machine

Control panel for basic robot functions (start, stop, home position, cycle start, end of cycle)

2 clamping circuits

2 vacuum circuits

EUROMAP 67 interface

Conveyor belt interface

Interface for control gate of protective encasing

8I/O, 24 V DC interface for external ancillary equipment

Mechanical safety barrier for axis 1

Hand-TECH gripper software: control of all gripper functions in plain text mode

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Additional gripper auxiliary axis functions (end-position controlled)

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Teleservice interface

Manual control unit range extended to 40 m (standard: 10 m)

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