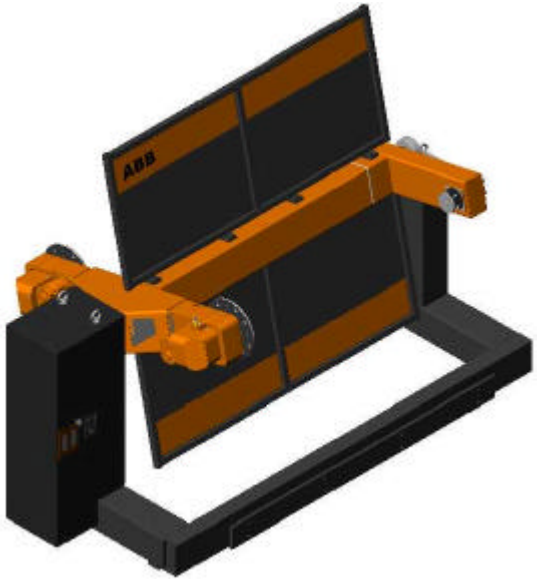
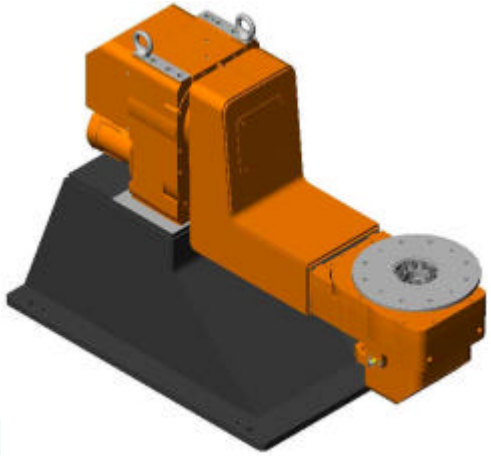
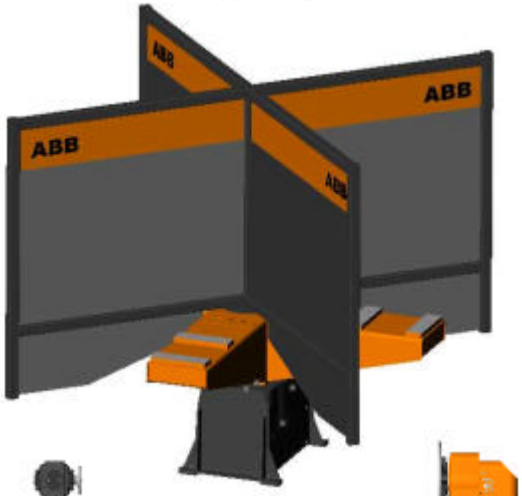
ABB Positioners

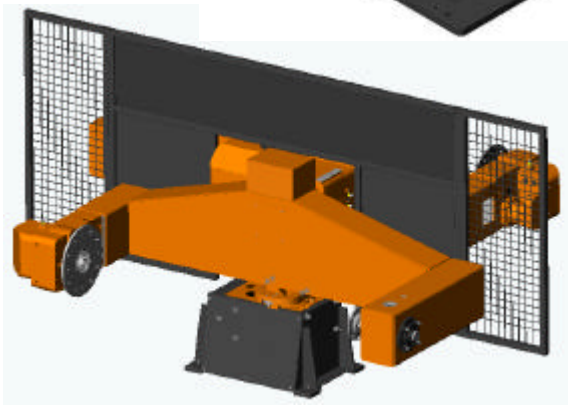
-reliability
-quality
-performance

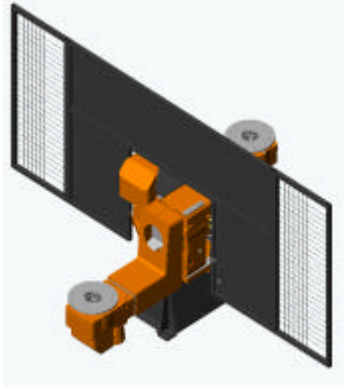
Positioner range











General features

All ABB positioners are of robust construction to ensure excellent stability.

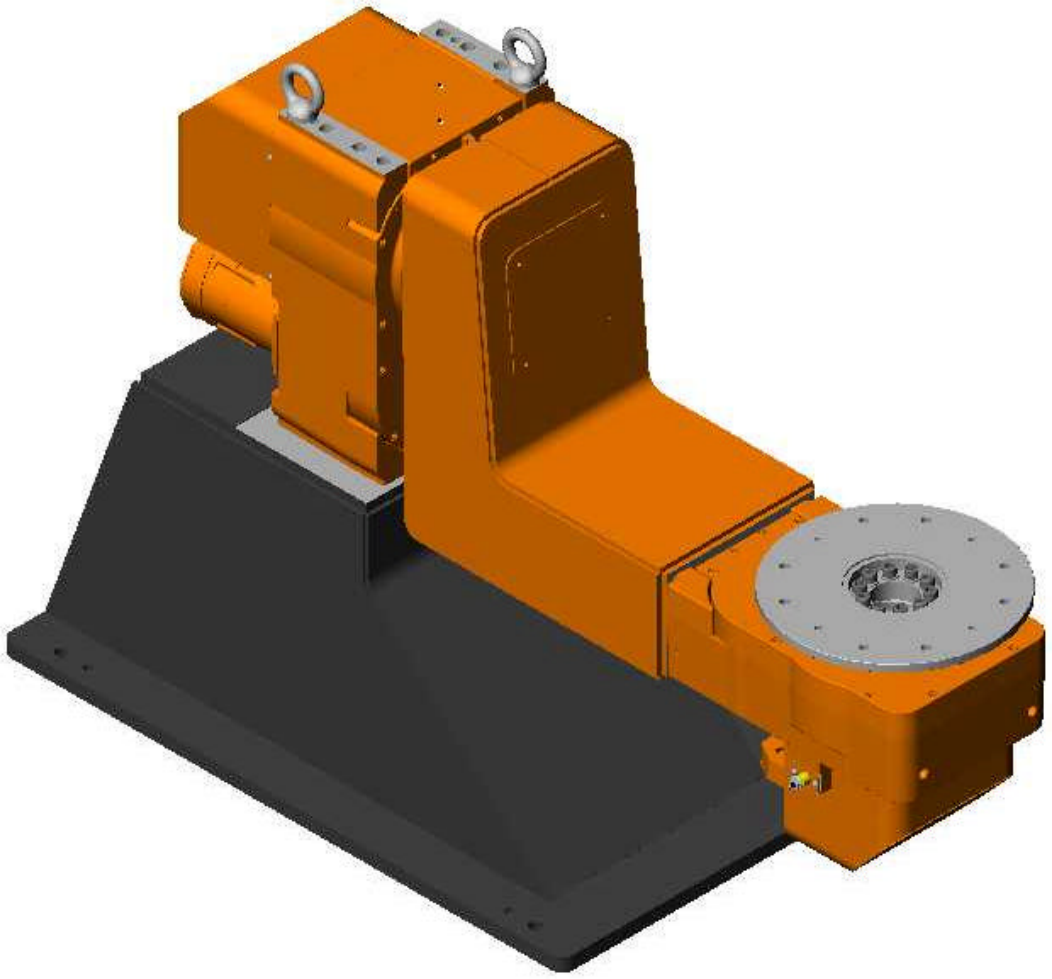
They use the same drive systems and software as the robots. The dynamic software automatically compensates for the effects of gravity, inertia and friction to provide fast movements and accurate following of the programmed path.

ABB's positioners are designed to be highly functional yet compact thus making maximum use of available floor space.

Standardised dimensions for all rotating plates greatly simplifies exchanging fixtures.

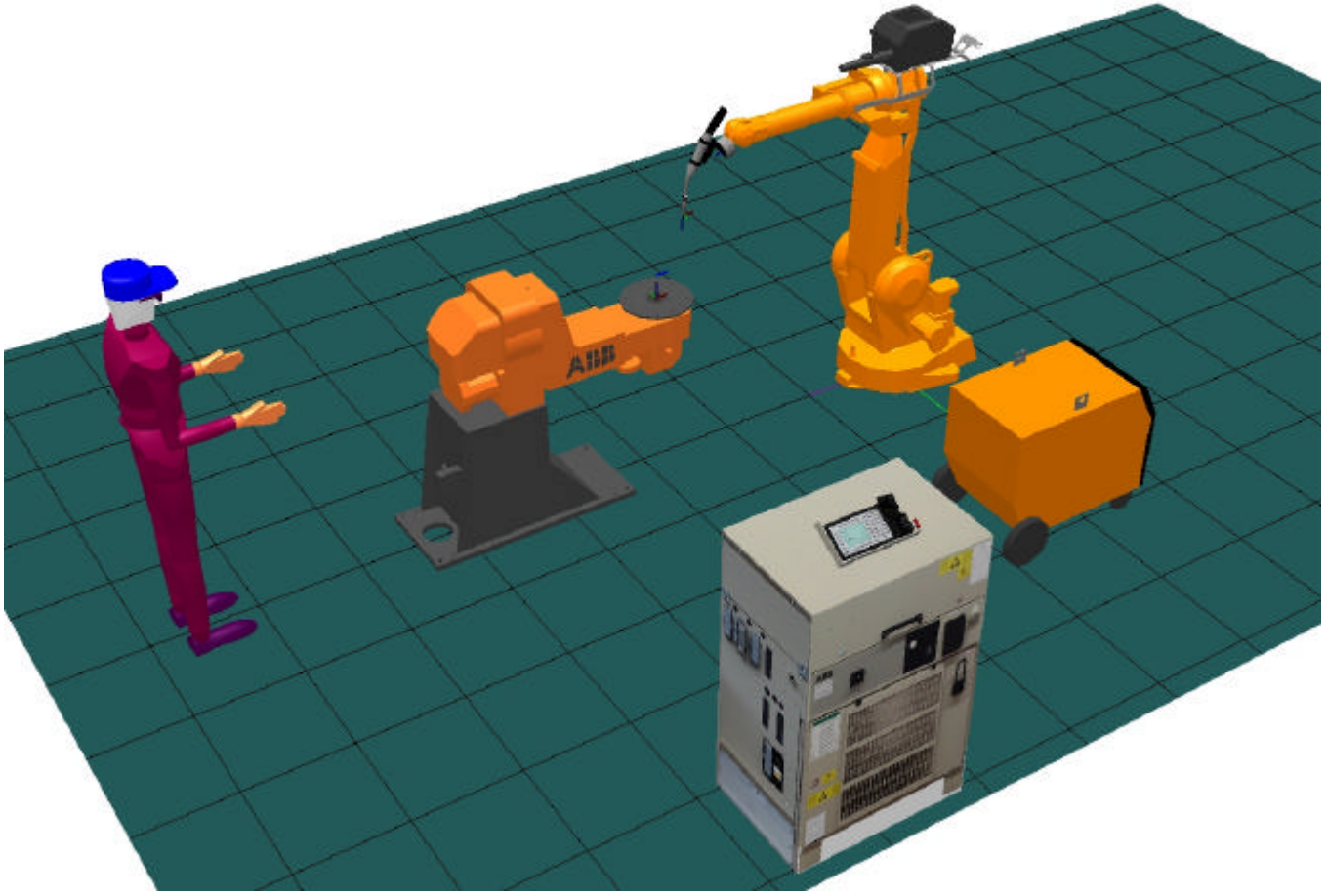
ABB positioners can be supplied with all necessary safety equipment.

IRBP A-type

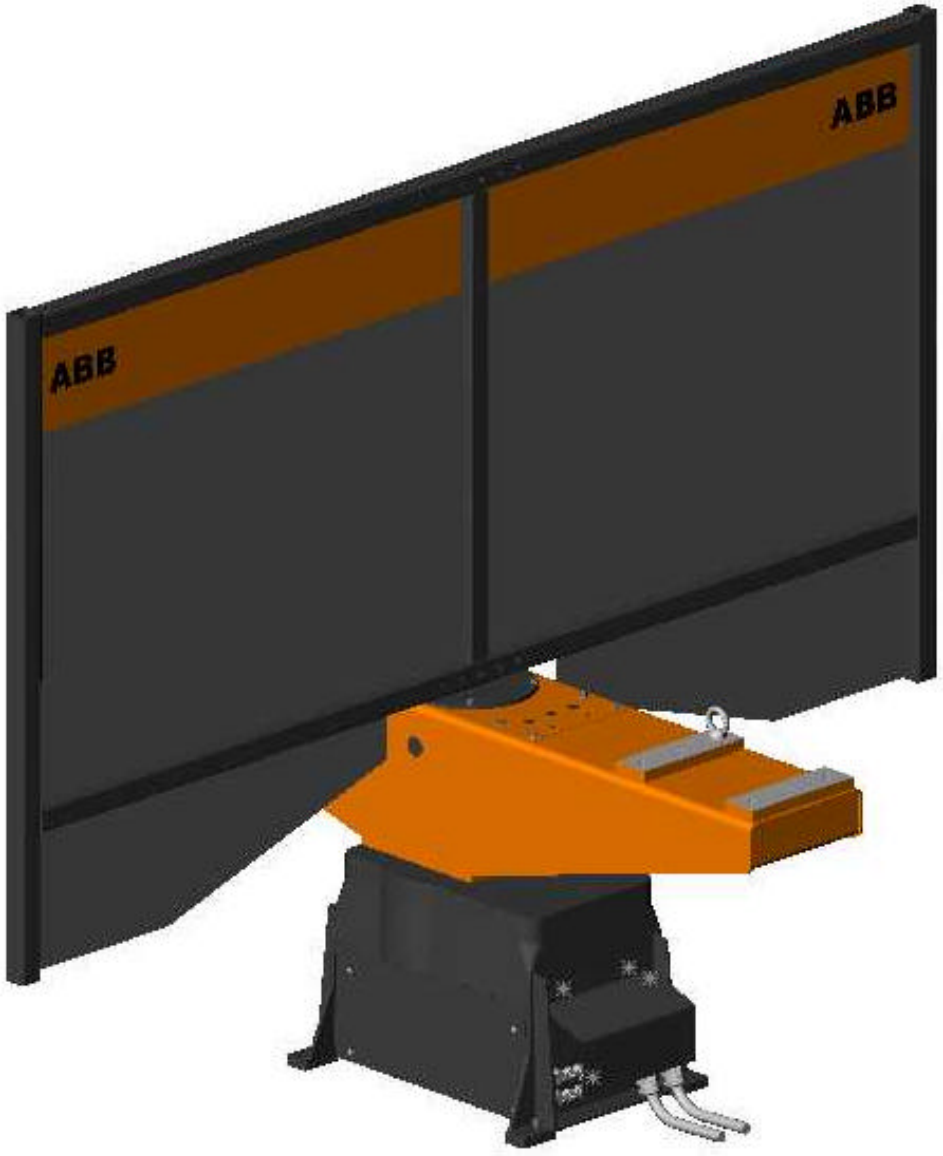


- Two axes manipulation
- One or two station solution
- optimize for solutions for work pieces with complex geometry
- 250, 500 or 750 kg payload

Cell solutions Function Package A

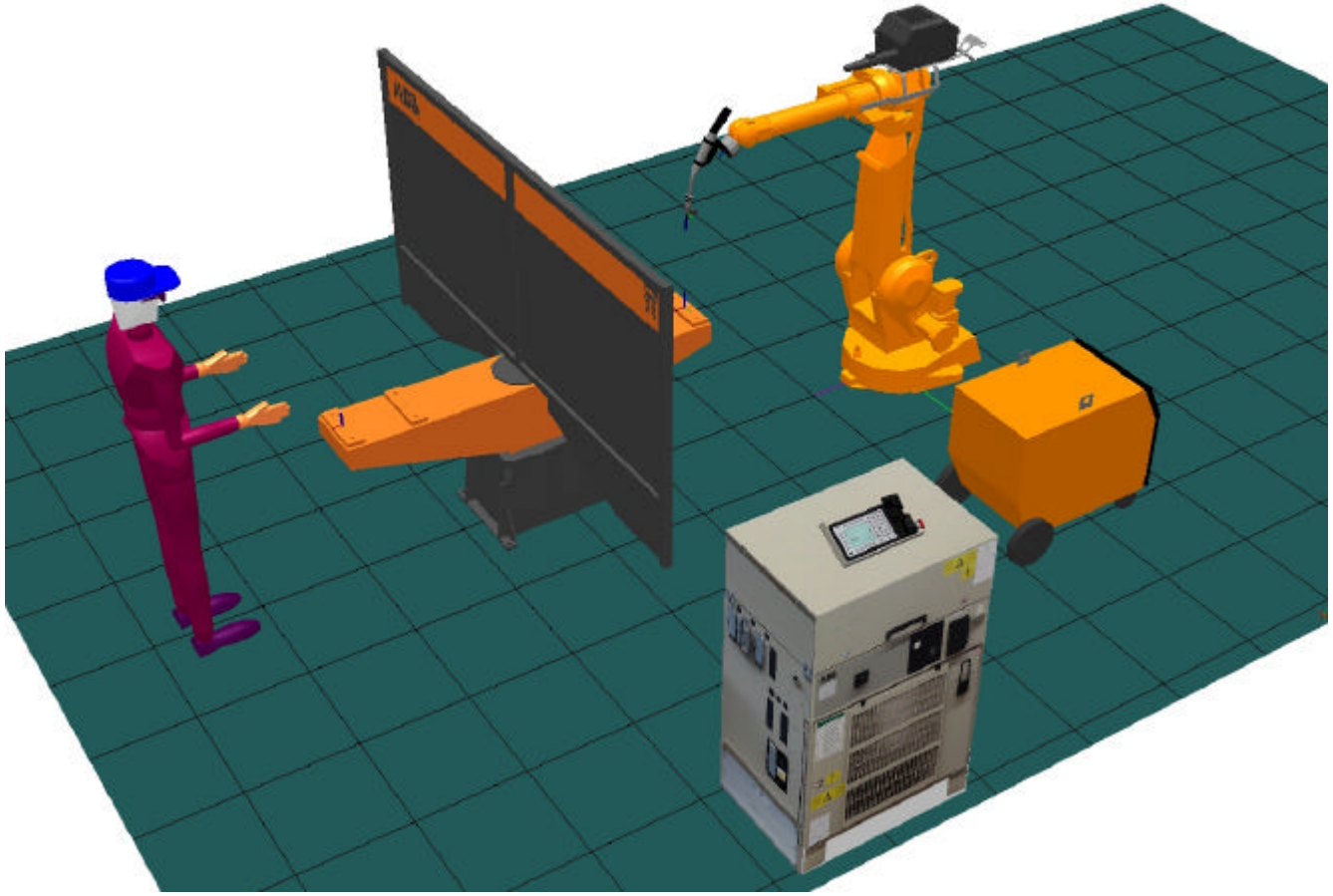


IRBP C-type



- Two station solution
- Fast interchange motion
- 500 or 1000 kg payload

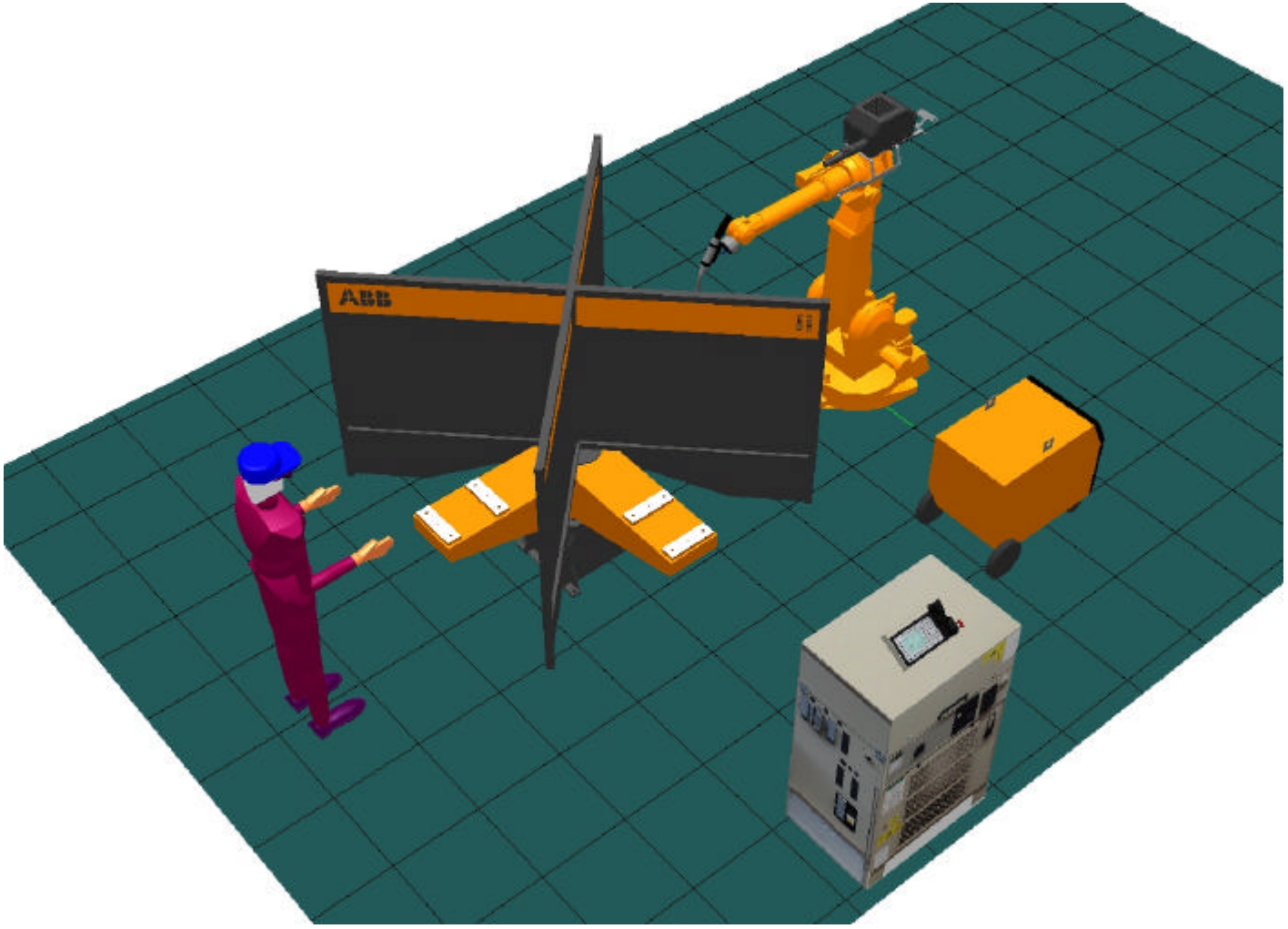
Cell solutions Function Package C



IRBP C INDEX-type

- Multi station solution
- Fast index motion
- 250 or 500 kg payload

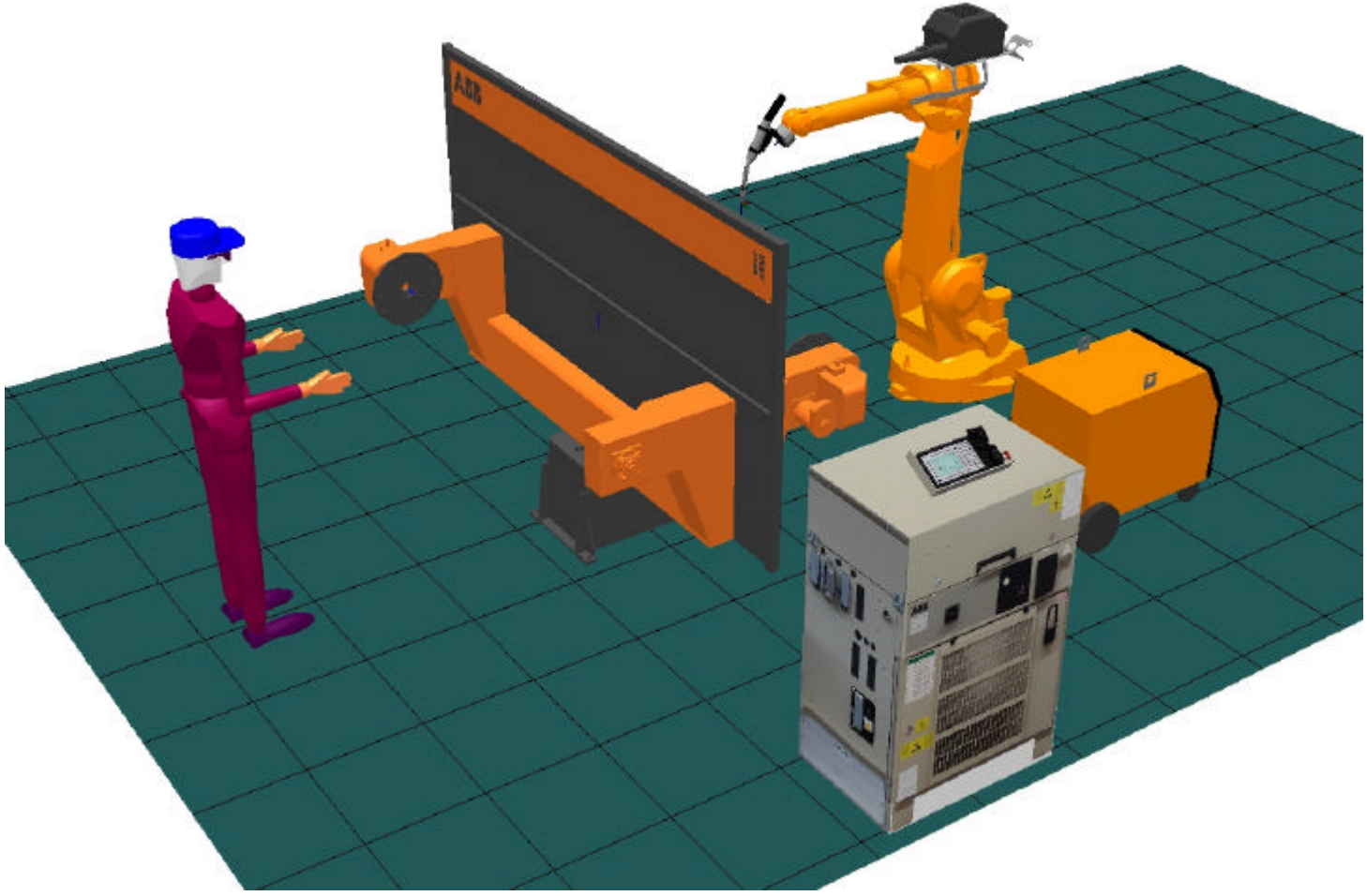
Cell solutions Function Package Index



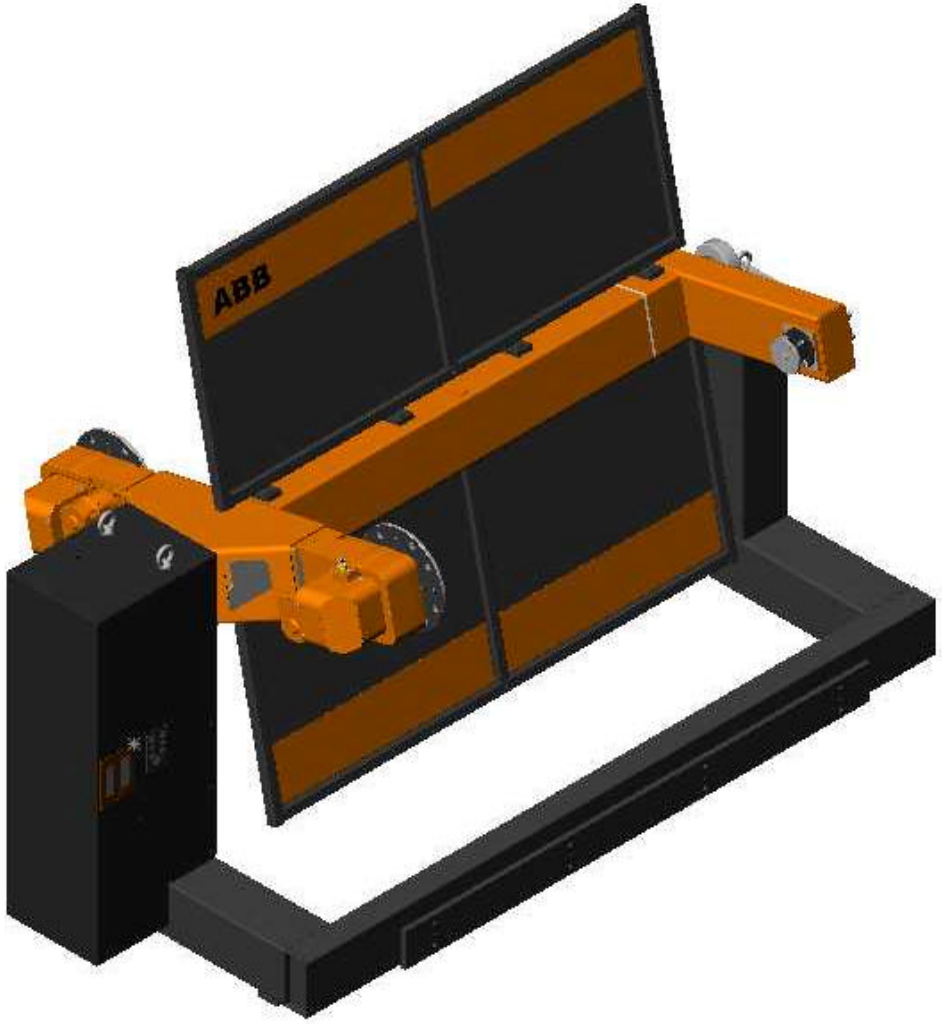
IRBP R-type

- Two station solution
- Full co-ordination with robot for external axes
- 250, 500 or 750 kg payload
- Length up to 2000 mm
- Three simultaneously used drive units during interchange

Cell solutions Function Package R

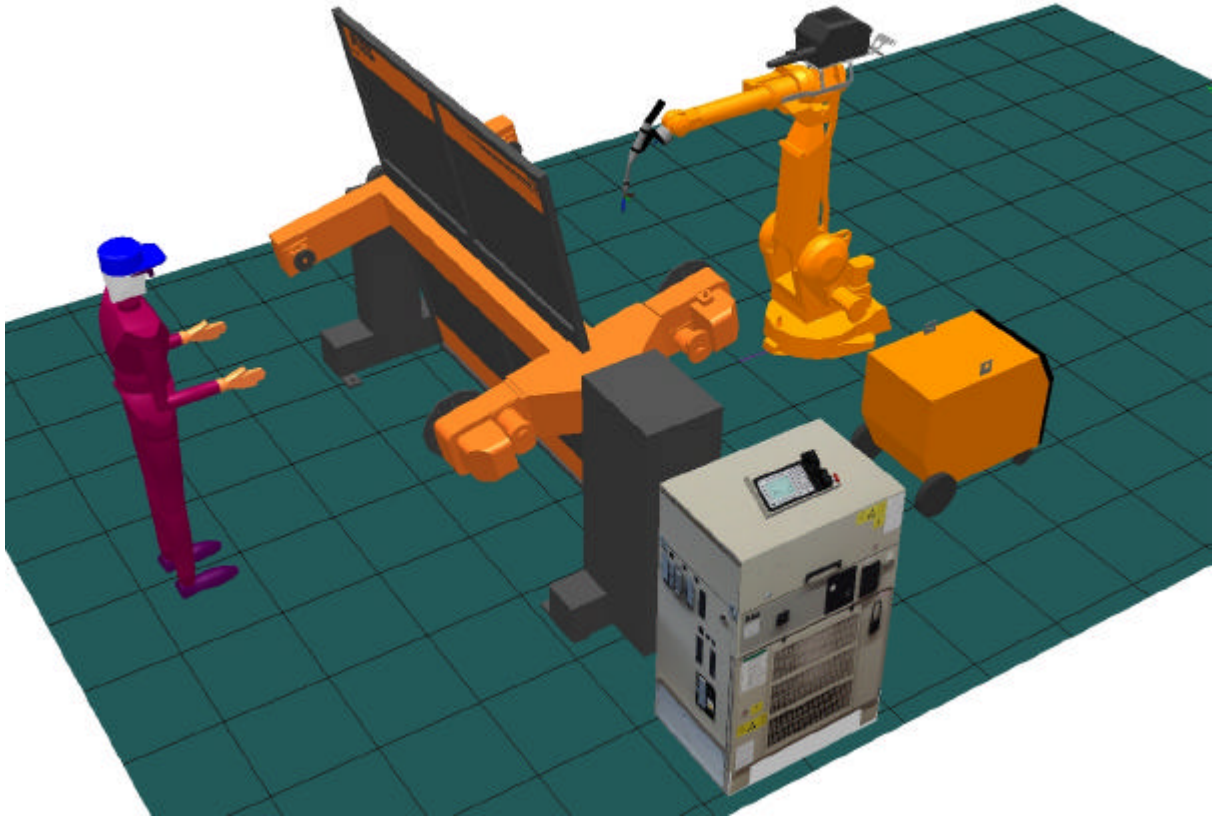


IRBP K-type



- Two station solution
- Full co-ordination with robot for external axes
- 250, 500 or 750 kg payload
- Length up to 4000 mm
- Can be used with two robots
- Three simultaneously use drive units during interchange

Cell solutions Function Package K



Interchange operation

There are two different ways of using the three simultaneously drive units for B,D,R and K positioners

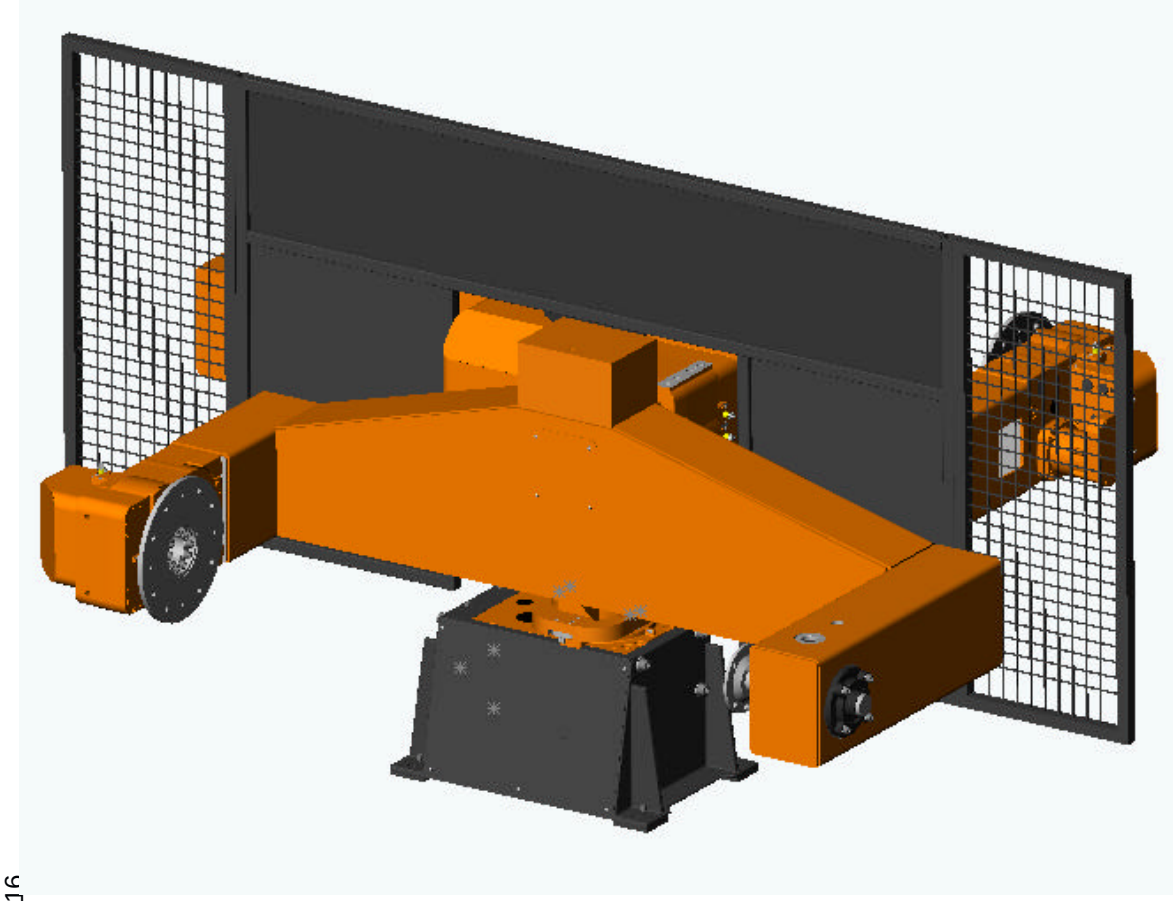
- **Dynamic move:**
  The fastest way to do the interchange operation
  Maximal torque on at least one motor during the motion
- **Independent move:**
  Enable torch cleaning during interchange.
  Extend the interchange time approx. 1.0s

Both ways of motion is allowed in the same system

IRBP L-type

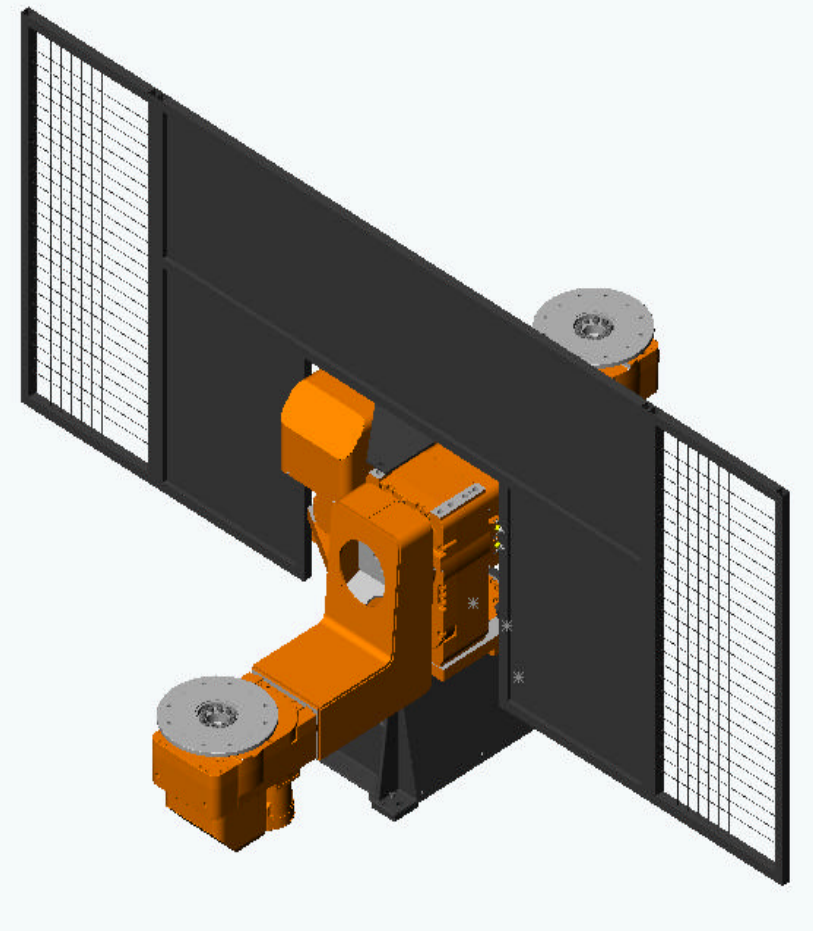
- One axes manipulation
- One or two station solution
- Can be used in different setups (head,tail & beam)
- 250, 500, 750, 2000 and 5000 kg payload

IRBP D-type



- Two axes manipulation
- Two station solution
- Can be used in different setups (one or two robots)
- 250 or 500 kg payload

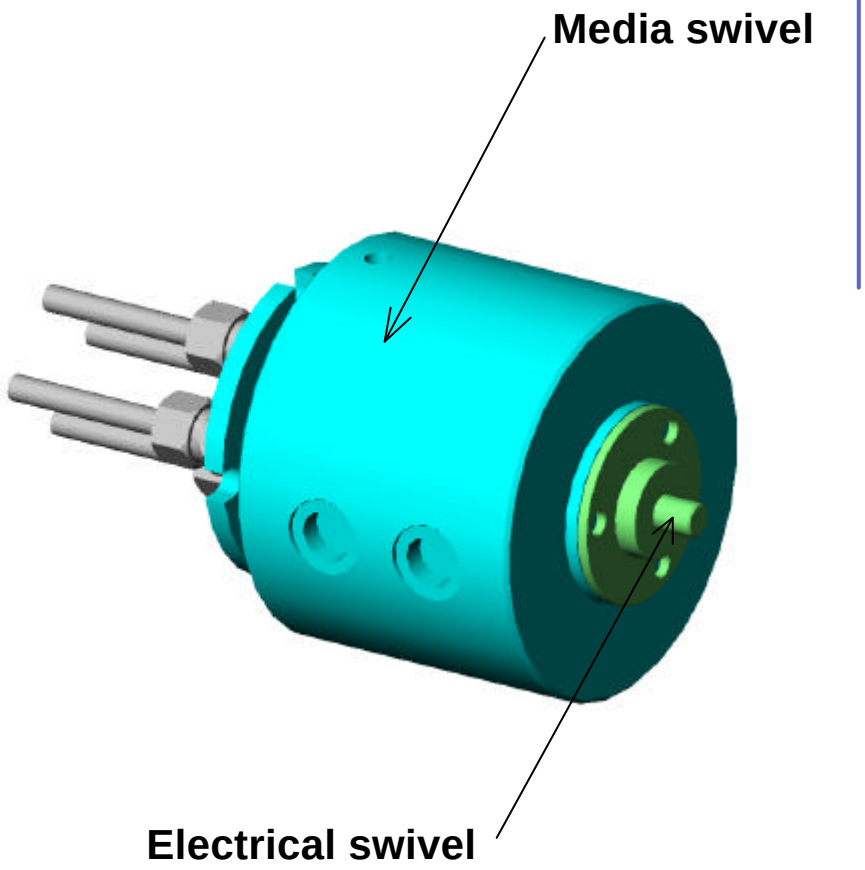
IRBP B-type



- Two axes manipulation
- Two station solution
- Can be used in different setups (one or two robots)
- 250, 500 or 750 kg payload

swivels / media supply

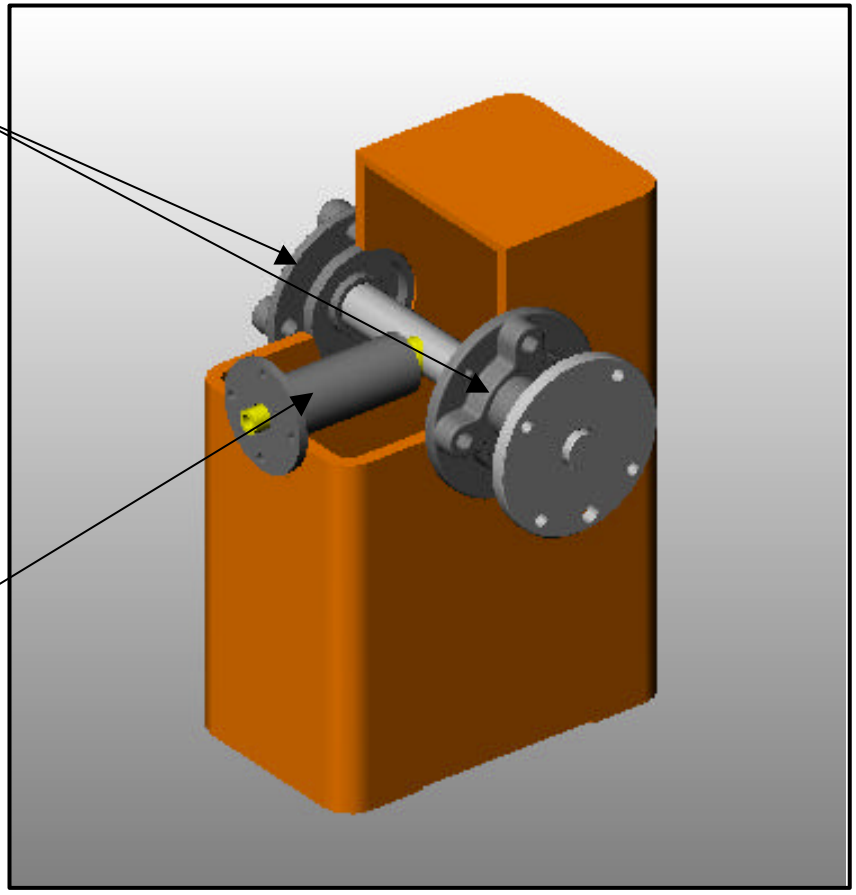
Description of media		MTC 250
Air	Max 8 bar	
Water	Max 10 bar	
Oil	Max 200 bar	
		> MTC 500
Air	Max 8 bar	
Water	Max 10 bar	
Oil	Max 200 bar	
Electric	Max 2 Amp	
	Max 48 Volt	
	Signal quality :	CAN-bus
		ProfiBus
		Interbus



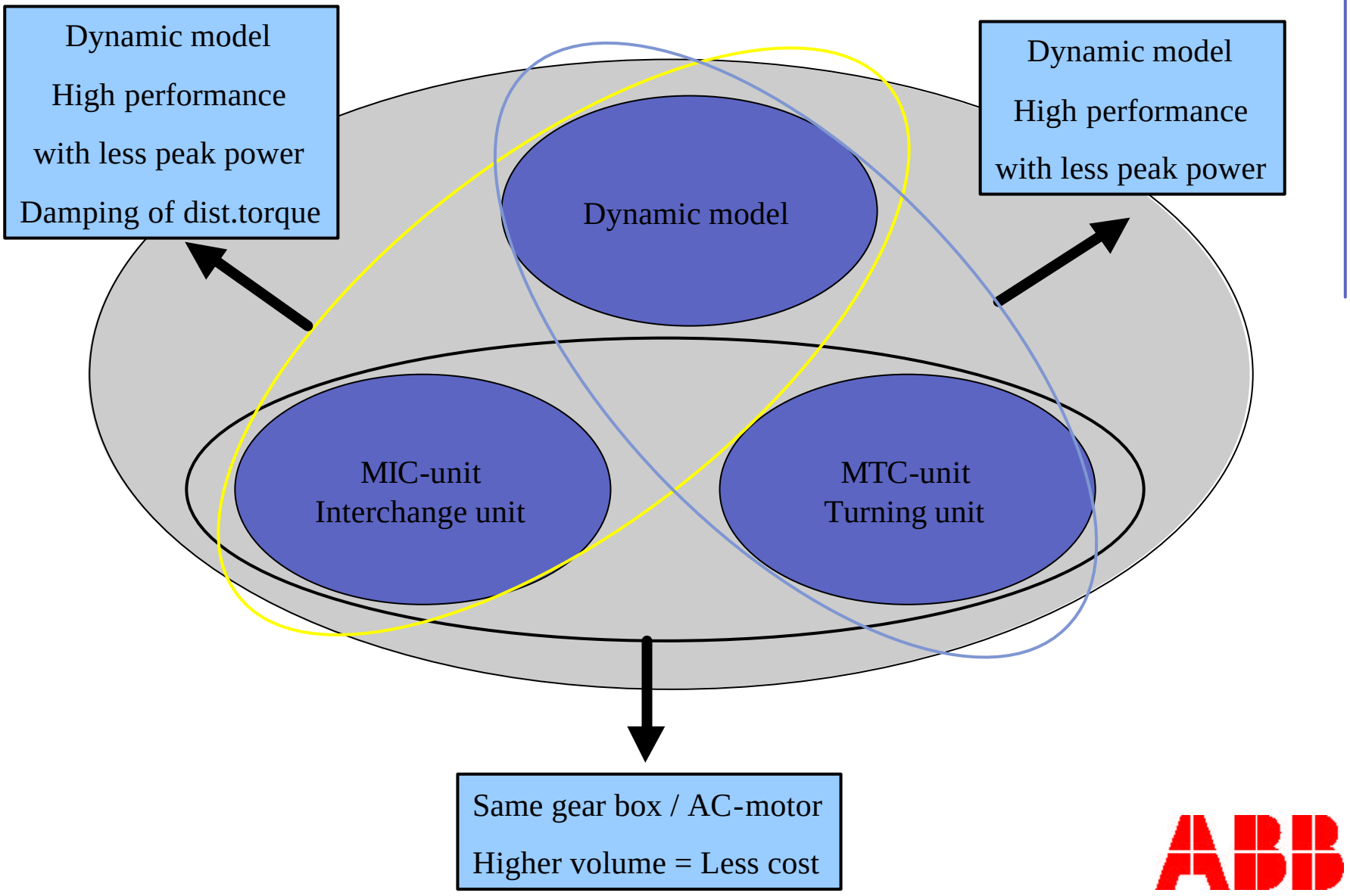
Support bearing

Double bearing

Option : Extra current collector



Modules



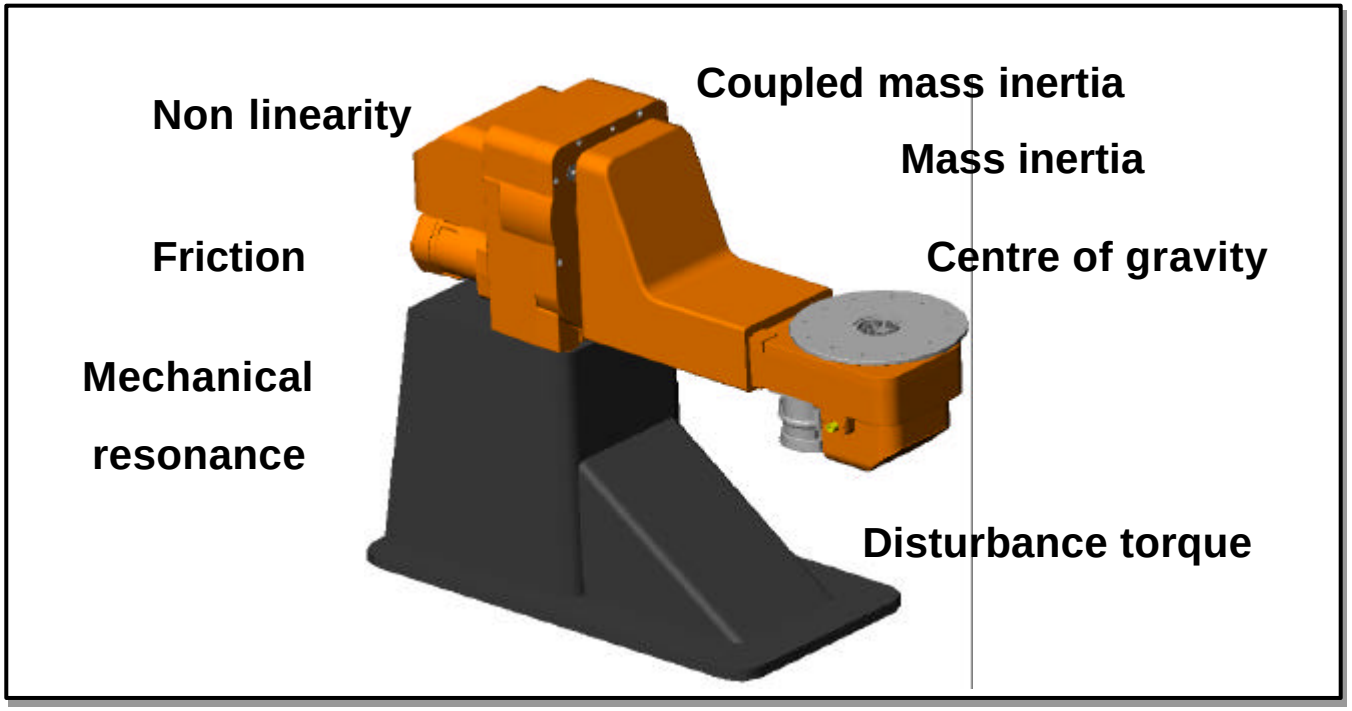
MTC / Technical data

Technical data MTC				
	Unit	**MTC 250**	**MTC 500**	**MTC 750**
Handling capacity	kg	**250**	**500**	**750**
Cont. Torque	Nm	**350**	**650**	**900**
Max inertia	kgm2	**40**	**170**	**300**
Max bending torque	Nm	**650**	**5000**	**5000**
Max speed	rpm	**30**	**25**	**25**
Max acc	rad/s2	**3,2**	**2,9**	**2,7**
Repeatability	mm	**0,1**	**0,1**	**0,1**

	Unit	**MTC 2000**	**MTC 5000**	
Handling capacity	kg	**2000**	**5000**	
Cont. Torque	Nm	**3800**	**9000**	
Max inertia	kgm2	**1200**	**3500**	
Max bending torque	Nm	**25000**	**60000**	
Max speed	rpm	**15**	**6,5**	
Max acc	rad/s2	**0,8**	**0,5**	
Repeatability	mm	**0,1**	**0,1**	

Dynamic model - HPP

- Load Id
- True Move
- Quick Move



Dynamic model - HPP

Gives the user:

- Reduced cycle time (5-15 % approx)
- Improved quality (better path performance)
- Reduced interchange time (three drive units during interchange)

STANDARD FOR ALL POSITIONERS !!


ABB