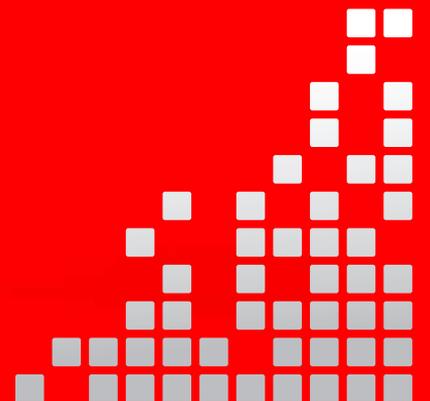


COMPETENCE IN AUTOMATION

WEMO.

xDESIGN & sDESIGN LINEAR SERVO ROBOTS



OUR PHILOSOPHY

HERITAGE



HERITAGE

IDEALS & INSPIRATION

The existence of Wemo Automation is and has always been based on the initiatives of incredibly innovative people, with a natural connection to life. Our inspiration comes from the silence and clarity of nature which is fundamental to our way of life and work. Using the philosophy of nature inspires us to find the easiest and most simple way to use state of art technologies.

This is what we call "*NORDIC INSPIRATION*"



The company Wemo has always been based on the initiatives of incredibly innovative people - people who love what they are doing and with high ambitions. Our specialists in robot manufacturing ensure the highest quality and long product lifespan.

Our professional support team analyses our customers' situations so that they can provide training and a maintenance procedure for trouble-free operation. Wemo has an active, well-educated network for support in more than 40 countries around the world.



AUTOMATION FACTORY

AUTOMATION FACTORY

Our modern automation factory is staffed by engineers with the ambition of continuously achieving new levels of user friendliness and flexibility. Our range of modern machines ensures production of precision parts to the highest level of quality. This results in innovative solutions from our modular platforms to provide customers with turnkey solutions.

COMPETENCE IN AUTOMATION

STATE OF THE ART POLE POSITION



L E A D
T I M E

STATE OF ART

POLE POSITION

We are passionate about achieving flexibility in the design of our products. Our ability to put technology to multiple uses results in higher productivity for your manufacturing processes. The use of sustainable materials and dimensioning places Wemo products in pole position.

Our highly efficient internal manufacturing department uses the latest technologies to create high value processing.





xDESIGN READY FOR TAKE OFF

STABILITY

HIGH PRECISION

The new development of xDesign is inspired by advanced air force planes to meet the highest demands of our mission. The innovative design and technologically advanced components result in stability and high precision movements. There are almost no limits to how many functions can be added for high end automation.



TOP ENTRY

SIDE ENTRY



sDESIGN IN POLE POSITION

SHORT CYCLETIME

FAST RUNNING PRODUCTION.

The extreme fast and reliable sDesign is inspired by racing cars for maximum endurance running at high speed. Intelligent software optimises the communication and performance.

This results in shorter cycle times for sustainable fast running production.

INNOVATIVE SOLUTIONS

1



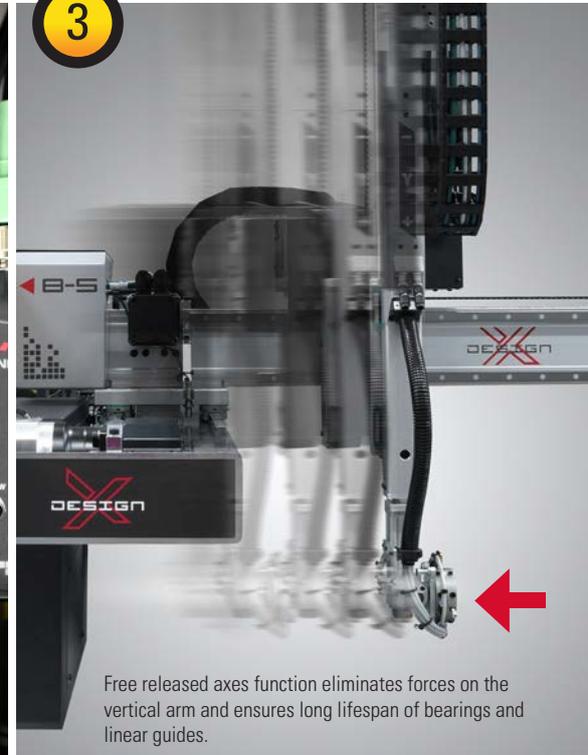
Powerful servo motors and high precision planetary gearboxes ensure energy efficient movement.

2



With highly efficient integrated vacuum ejectors, the consumption of compressed air is considerably reduced.

3



Free released axes function eliminates forces on the vertical arm and ensures long lifespan of bearings and linear guides.

4



Powerlink bus system for fast reactions and precise synchronisation with response time below 0.5 milliseconds to reduce delay times in the process.

5



To save energy consumption and reduce mechanical wear, we have developed an eco-function for adaptive adjustment of cycle time to the actual cycle of the machine.

1-5 OF MANY MORE

BENEFITS

ADDED VALUE

We are proud of innovative solutions that break barriers and set new standards of performance. By using our wealth of experience in robot manufacturing we ensure that we continue to bring optimised solutions for higher productivity to our customers.

EFFICIENCY & REALIABILITY



- 19% HIGHER PRODUCTIVITY - WITH PERFORMANCE PACKAGE AS STANDARD
- 78% LESS ENERGY CONSUMPTION - WITH VACUUM SAVE FUNCTIONS
- 98% AVAILABILITY - THANKS TO HIGHEST QUALITY COMPONENT INSIDE
- 18% LESS FLOORSPACE - WITH MIRRORED PLACEMENT OF Y-AXIS
- 100% ERGONOMIC - WITH MORE USERFRIENDLY SOFTWARE AND FAST SETUP TIME

THIS RESULTS IN A
LOWER TOTAL COST

TROUBLE FREE MANUFACTURING.

MAXIMUM OUTPUT

It is an important decision to evaluate the right automation concept for your production. You want maximum output from your equipment, consistent product quality and trouble free manufacturing. A profitable investment also needs a fast return of investment to achieve low total running costs.

Wemo robot systems offer all of that.

HIGHLY EFFICIENT INTEGRATED VACUUM EJECTORS REDUCE UP TO 78%

NEW DESIGN

EASY TO RETROFIT FLEXIBLE OPTIONS

NEW DESIGN

MIRRORED DESIGN OF Y-AXIS RESULTS IN SMALLER FLOOR SPACE

NEW DESIGN

CLEAN DESIGN WITH PROTECTED COVERS FOR PACKAGING AND MEDICAL PRODUCTION

NEW DESIGN



COMPACT DESIGN OF ROTATION AXES MINIMISES MOULD OPEN HEIGHTS

NEW DESIGN

QUICK CHANGE OF EOAT FOR FAST SETUP

ORIGINAL DESIGN

MECHANICAL ADVANTAGES



NEW DESIGN CABLE CHAIN TURNED 180 DEGREES, ALLOWING FOR SMALLER SAFETY GUARDING

NEW DESIGN MOTOR & GEARBOX MOUNTED INSIDE THE VERTICAL ARM

NEW DESIGN LIGHTWEIGHT AXES FOR FASTER MOVEMENTS

NEW DESIGN HIGH TORQUE FOR LARGER SIZE OF EOAT



THE SIMPLIEST WAY IS THE FASTEST WAY

WIPS

WEMO INTUITIVE PROGRAMMING SYSTEM

The unique WIPS (Wemo Intuitive Programming System) guides the operator through the program. It's fast and easy to learn, meaning minimum programming time. A complete program has now been created with simplified instructions. 100 rows of code have been reduced to only 5 symbols.

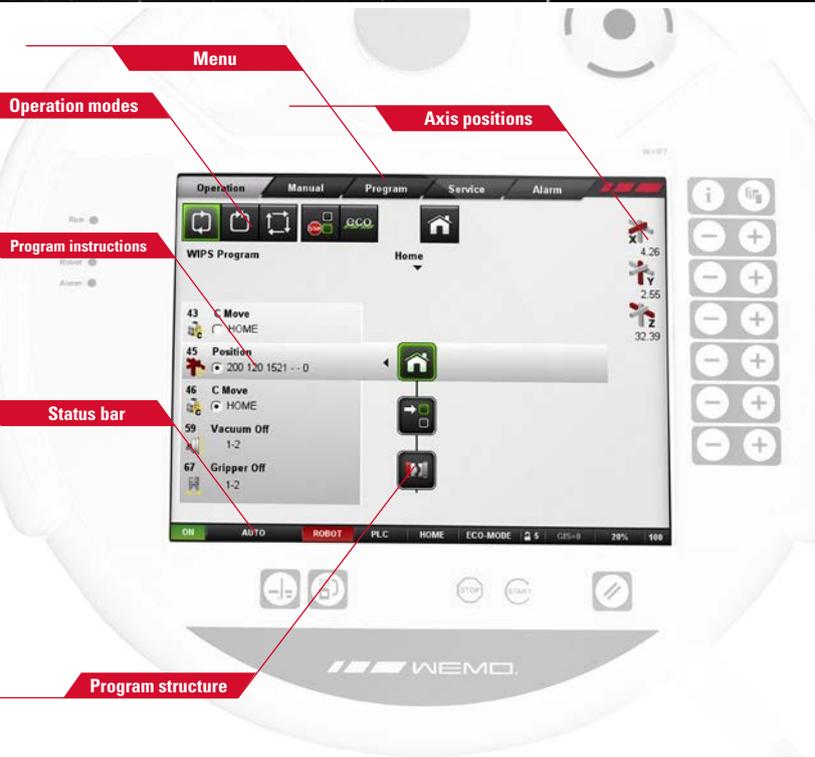
THIS MAKES THE WIPS SOFTWARE POWERFUL AND EASY TO USE.

ALWAYS ACCESSIBLE

SERVICE & REMOTE

With our service and remote system it is possible to access the robot within your company or by using a standard web browser from any location. It will also reduce downtime and costs if a fault occurs.

WEMO REMOTE SYSTEM GLOBAL CONNECT



WIPS PLASTIC

W-HP7

The ergonomic handheld W-HP7 panel makes operating the robot comfortable and easy. Clear and understandable interactive dialogues provide the user with the required information.

HIGHEST LEVEL OF USER FRIENDLINESS

THE RIGHT CHOICE

OPTIMAL SOLUTION

X & S DESIGN

The xDesign is designed for all types of application for moulding of technical parts for more complex automation. For the fastest running operations, such as packaging with thin-walled parts, the sDesign is the optimal choice for the highest production output.



Type		8-5 xDesign	16-5 xDesign	16-7 xDesign	8-5 sDesign	16-5 sDesign
Machine size	ton	75-300	250-500	300-800	75-350	150-500
Maximum payload single arm*	kg	8	12	-	5	8
Maximum payload telescopic*	kg	10	16	20	5**	8**
X-stroke	std/max.	580/700	800/920	920	580	800
Y-stroke singlearm	std/max.	1000/1400	1200/1600	1200/1600	1000/1200	1200/1400
Y-stroke telescopic	std/max.	1000/1400	1200/1800	1200/2000	-	-
Y-stroke doublearm	std/max.	1000/1200	1200/1400	-	1000/1200	1200/1400
Z-stroke	std/max.	1520/4460	1850/5450	1850/5450	1850/3620	1850/4450
Rotation axes pneumatic	axis	C-/B-/A-	C-/B-/A-	C-/B-	C-	C-
Rotation axes servo	axis	C-/B-	C-/B-/A-	C-/B-/A-	C-/B-	C-/B-
Handheld panel & software	type	W-HP7 with WIPS plastic				

* payload reduced with longer vertical stroke length and additional rotation axes. ** reduced acceleration



MODEL RANGE

75-800 TONNES.

X & S DESIGN

With the latest development of robots, it covers machine sizes from 75 to 800 tonnes. With an increased handling weight and faster movement it will be the right choice for flexible high end automation solutions.

OPTIONS FOR FLEXIBLE AUTOMATION



B/C servo combination axes

Compact rotation axes for more flexibility and cost effective applications.



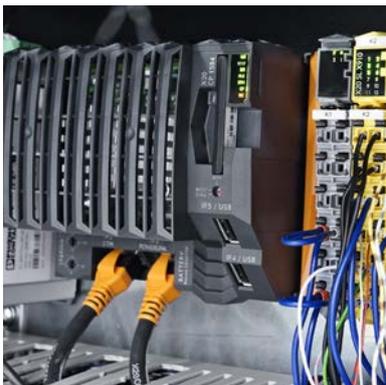
Wide range for extension of axes

Several stroke lengths for all axes and telescopic versions of vertical arms.



External servo axes control

With the new WIPS control system it is possible to control up to 6 external servo motions from the handheld panel on the robot.



Bus communication between robots

Robots can be connected by Ethernet power link and integrated safety functions for more complex automation solutions.



New safety switches

Fulfil the new CE safety regulations EN 2006/42/EC with electromagnetic locking with coded non-contact function.



External I/O box

Control of downstream equipment by the PLC software in the handheld panel on the robot.



Conveyor control unit

Belt pacing control of conveyors and box handling system with inputs & outputs for sensors and cylinders.



Automatic central lubrication

The robot calculates the used distances and ensures optimised quantity of lubrication for maintenance-free operation.



Wemo Remote System (WRS)

Software to monitor and operate the robot on a tablet or mobile device connected to WIFI or GSM.

CONFIGURATIONS FOR YOUR NEED

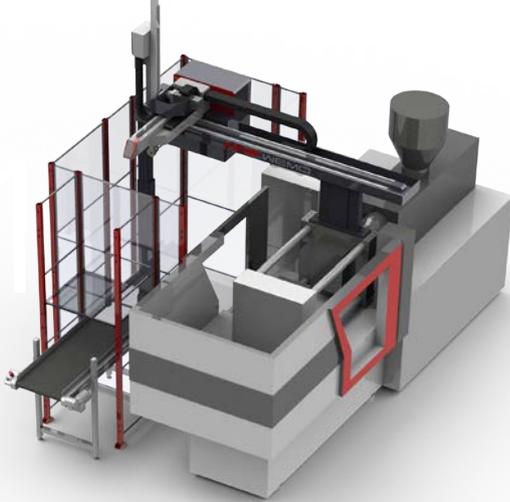
MOST COST EFFICIENT

REDUCE THE FLOORSPACE

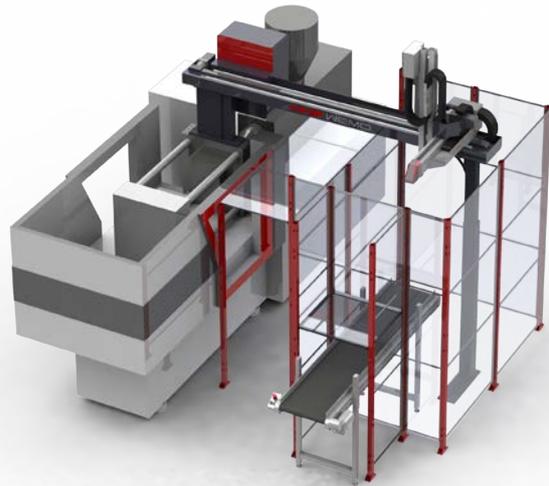
Whatever the layout of your factory, there are several solutions to how you can use our robot systems. The most cost-efficient and popular way is the rear side application. The new mirrored placement of the Y-axis reduces floor space.

Let us show you other solutions according to your needs.

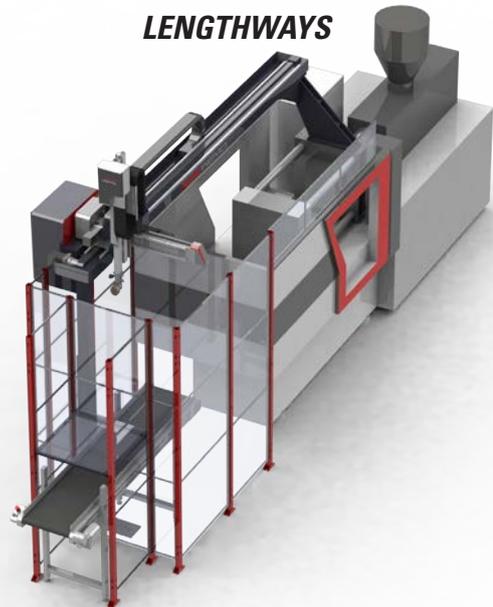
REAR SIDE (Non-operator side)



OPERATOR SIDE



LENGTHWAYS



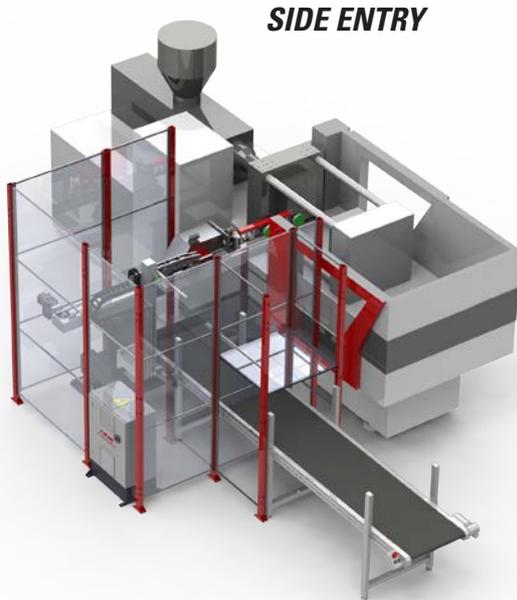


FASTEST ROBOT CONFIGURATION

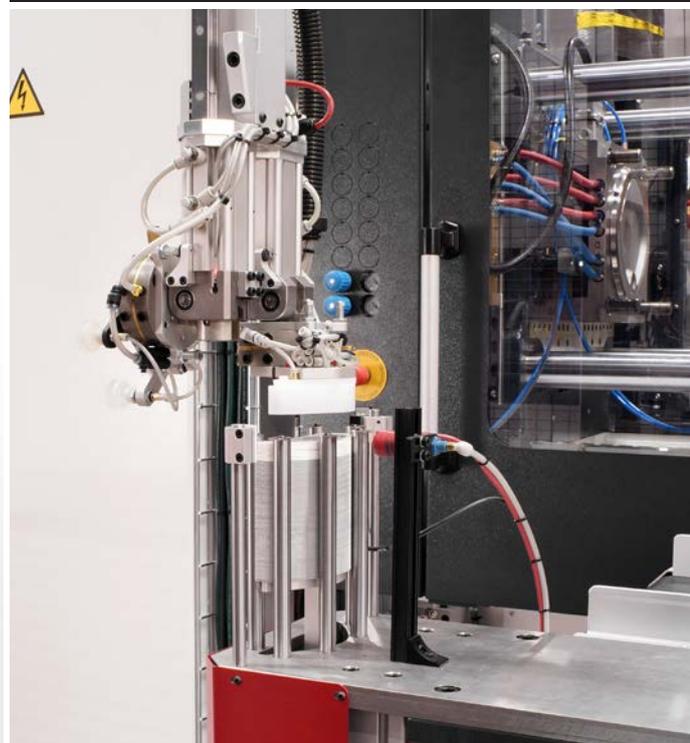
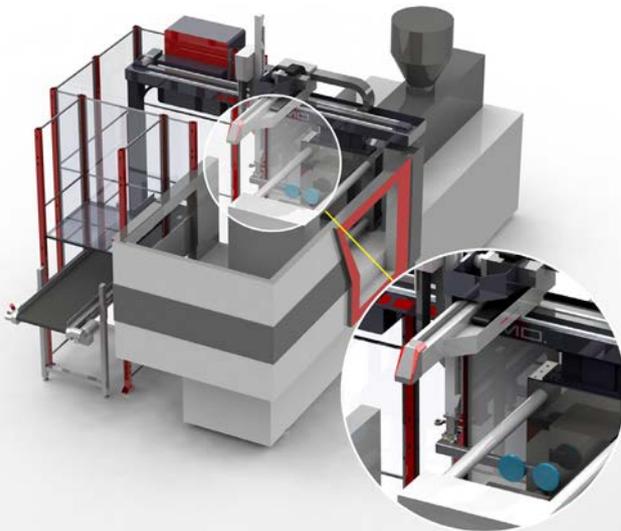
SIDE ENTRY

The sDesign robots are also available for side entry application which is the fastest robot configuration. The 7-5 and 12-5 are the optimal solution for packaging and medical part production. If the machine can be run with rear door open it is also possible to use the top entry robot with angular mounted arm for lower application height.

CONFIGURATIONS FOR YOUR NEED



ANGLE MOUNTED ARM



DESIGNED FOR INTEGRATION

PROFESSIONAL SOLUTION

The Wemo IML & IMD System is a professional solution for the plastics industry. The system is designed for integration in the moulding process, with innovative and technically sophisticated solutions. Depending on the level of automation, our modular systems can be equipped with various types of label and design.

IML & IMD APPLICATIONS



WEMO ROBOT SYSTEM



WEMO GRIP SYSTEM



WEMO CONVEYOR SYSTEM



WEMO SAFETY SYSTEM



WEMO PERIPHERAL SYSTEM



WEMO APPLICATION SYSTEM

COMPETENCE IN AUTOMATION



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