

THE Y-SERIES

1. Speed

Fast Acceleration and speed are the decisive factors to reach a cycle time of 0,27 sec. at 1 kg payload and a cycle time of 0,43 sec. at 3 kg payload (Movement: vertically 25 mm, horizontally 305 mm and vertically 25 mm).

2. Stiffness

High stiffness and precision of the YF003N ensure a position repeatability of 0,1mm as well as 0,1°.

3. Protection

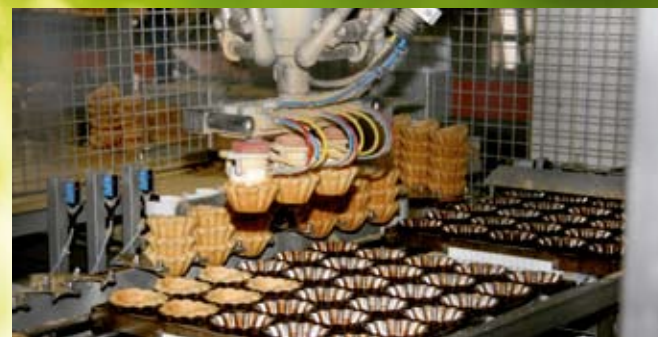
The Kawasaki YF003N is available with protection class IP65 or IP67.

4. Flexibility

An optionally 5th Axis, 2 Ethernet ports and USB port ensure the capability to adapt intelligent grippers, vision systems or other peripherals as well.

5. Application Area

The Kawasaki YF003N is produced by using lubricants with food specification. Through this, many application areas as well in food industry are possible.



Cautions to be taken to ensure safety

For those persons involved with the operation / service of your system, including Kawasaki Robot, they must strictly observe all safety regulations at all times. They should carefully read the Manuals and other related safety documents.

Products described in this catalogue are general industrial robots. Therefore, if a customer wishes to use the robot for special purposes, which might endanger operators or if the robot has any problems please contact us. We will be pleased to help you.

BE CAREFUL: All photos illustrated in this catalogue are frequently taken after removing safety fences and other safety devices stipulated in the safety regulations from the Robot operation system.

Inquiries

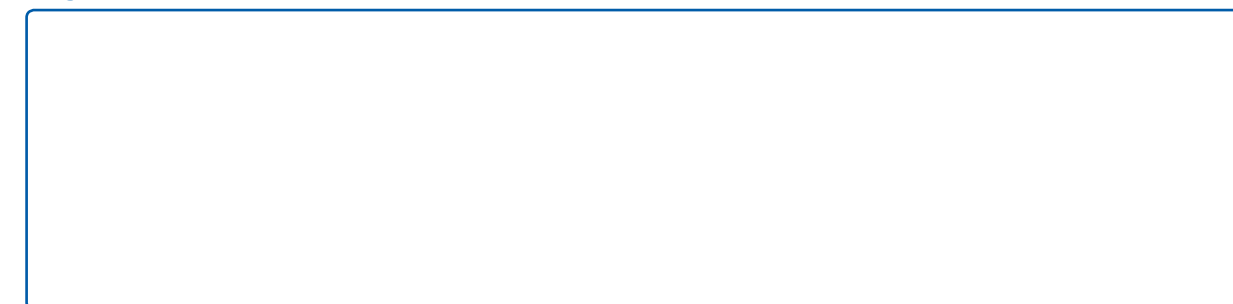
Kawasaki Robotics GmbH Deutschland
European Headquarter
Sperberweg 29 · 41468 Neuss
E-Mail: info@kawasakirobot.de · www.kawasakirobot.de

Tel. +49-(0)2131 34 26 0
Fax +49-(0)2131 34 26 22

Kawasaki Robotics (UK) Ltd.
Units 6&7 Easter Court, Europa Boulevard, Westbrook
Warrington WA5 5ZB · United Kingdom
E-Mail: info@kawasakirobot.uk.com · www.kawasakirobot.uk.com

Tel. +44-(0)1925 71 30 00
Fax +44-(0)1925 71 30 01

Agent



EUROPE



Y-SERIES

up to 3 kg payload

»Simple and friendly«
INTO THE FUTURE

Fast Pick & Place operations
are the domain of this robot.



»40 years of experience and
state-of-the-art robot techno-
logy«

Maximum speed and precision combined with in-
credible stiffness are the key factors of success of
this robot.

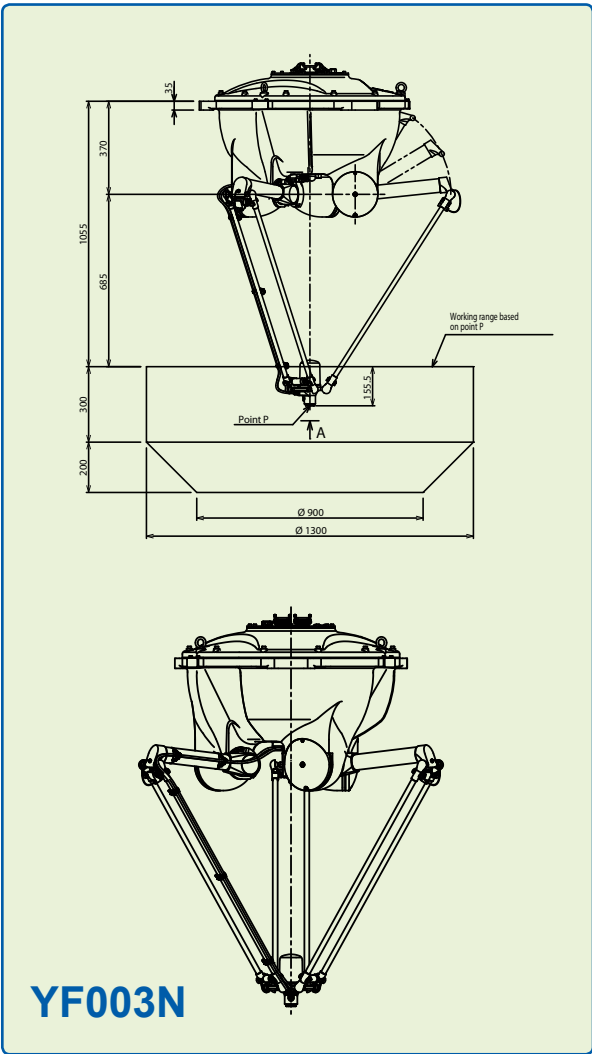
»Your goal is our task«

It was Kawasaki's intelligence and flexibility which
made them build the most powerful robots in their
class. Combined with a high-end control system,
they reliably meet the demands of the most varied
application fields - now and in the near & far future.

MODEL	YF003N	
Degrees of Freedom	4 Axis	
Maximal Reach	1300 mm	
Maximum Payload	3 kg	
Maximum Stroke	Axis 1	±95 ° ~ -54 °
	Axis 2	±95 ° ~ -54 °
	Axis 3	±95 ° ~ -54 °
	Axis 4	±360 °
Maximum Speed	Axis 1	1090,9 °/s
	Axis 2	1090,9 °/s
	Axis 3	1090,9 °/s
	Axis 4	1714,3 °/s
Repeatability (Measure Point: Middle of Flange)	± 0,1 mm / ± 0,1 °	
Weight	145 kg	
Max. Cycle time at 1 kg payload (25 mm vertically / 305 mm horizontally)	0,27 sec per pic	
Controller	E40	
Color	Munsell 10GY9/1	
Installation	pendant	
Ambient Conditions	Temperature	0 ~ 45 °C
	Humidity	35 ~ 85 % (no Dew or Frost allowed)
	Vibration	< 0.5 G
	Others	Installation Ambience must be free of: • Inflammable or corrosive Liquid or Gas • Electric Noise Interferences
Protection Class	IP 65 (optional IP67)	

»Standard specifications«

Motion Range & Dimensions



MODEL	E40	
Number of Controlled Axes	4 (optional 16)	
Servo Motors	Brushless AC Servomotors	
Position Detectors	Absolute Encoder	
Servo System	Full Digital Servo System	
Programming	Block or AS-Language	
Coordinate Systems	Joint, Base, Tool, external Tool	
Motion Control	Joint-, Linear- and Circular interpolated	
Signale	External	Motor Power, Signal Hold, etc.
	Input	32 (optional 128)
	Output	32 (optional 128)
	Analogue Input (optional)	8/16
Memory	4/8/12/16	
	8 MB (ca. 80.000 steps)	
External Memory	2 x USB	
Datenübertragungs- schnittstelle	PC, Network, etc.	2 x RS-232C, 2 x Ethernet
	Fieldbus (optional)	DeviceNet®, PROFIBUS®, PROFINET®, INTERBUS-S®, Ethernet/IP®, CC-Link®, CANopen®, Modbus TCP®, Control Net®
Teach Pendant	6.4" LCD with Touch Panel, Emergency Stop SW, Teach-Lock, Deadman SW, Motor Power, Program Start, Hold/Run	
Operation Panel	Emergency Stop SW, Control Power, Teach/Repeat	
Cable Length (Controller – Arm), (Controller – Teach Pendant)	10 m (Arm: optional up to 40 m), (TP: optional up to 30 m)	
Dimensions (WxDxH mm)	550x550x1200	
Weight (kg)	180	
Power Requirements	AC 380-415V ± 10%, 50/60Hz, 3 Phases, max. 9.9kVA (E44)	
Ground	<100Ω, Max. Leakage Current 10mA	
Safety Category	3, Performance Level d (EN ISO13849-1:2008)	
Ambience Temperature / Humidity	0-45°C, 35-85% (no Dew or Frost allowed)	
Color	Munsell 10GY9/1	

Note: Not all Options can be combined.

The E-Controller – technically mature, easy to operate
and powerful

Compact, upgradeable and user-friendly

A maximum of 12 external axes may be integrated,
up to three of which in the controller housing (E4x).
All established bus systems (Interbus, Profibus, Pro-
fiNet...) are supported. The integrated Soft PLC may
be edited via Teach Pendant or even more comfort-
ably at the PC (option). Custom-tailored user inter-
faces may be programmed and used for the simpli-
fied control of the robot and also peripheral devices.
Motor voltage ON and program start may be activa-
ted directly via the manual control unit. The parallel
display of two information screens (e.g. position and
signal data) facilitates the process control.

System

Ultra-fast execution of programs, loading and storing
processes as well as a precise continuous-path con-
trol and much more thanks to the up-to-date proces-
sor design and powerful components. 8 MB RAM
(80,000 steps) and USB interface as standard.

Maintenance

»Simple and friendly« – Due to the optimized modular
configuration of the Kawasaki control, maintenance
work is exceptionally user-friendly. Furthermore integ-
rated service and diagnosis tools guarantee increased
safety in operation. Remote diagnosis via Ethernet is
also included in the standard package.

