## System configuration



### The kit includes:

- RS232C to USB cable with driver
- AC Adapter
- Transportation case
- Programming software
- WINCAPS III Trial version (special license)
- ORiN Bundle version



"The highest evolution of the arm"

#### DENSO EUROPE B.V. / DENSO ROBOTICS



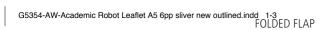
# THE ACADEMIC ROBOT

The new academic robot is a tiny 7-axis robot (incl. servo hand) intended for learning and training purposes in the academic field and in factory automation.



www.densorobotics.com







## Key advantages:

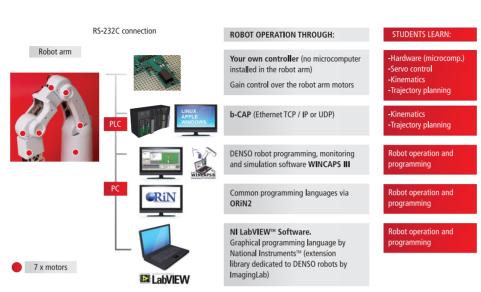
**(** 

- lacktriangle Affordable price even for small budgets
- Easy to transport thanks to its compact design and light weight (around 600 gr)
- Easy to program using real programming software
- WINCAPS III (DENSO robot programming, monitoring and simulation software)
- C++, C#, VB, Java, etc. via **ORiN2**
- b-CAP via Ethernet TCP / IP or UDP (OS and programming language independent)
- NI LabVIEW<sup>™</sup> Software; thanks to a special extension library for DENSO robots by ImagingLab

- Possible to develop vision applications via ORiN Vision (OpenCV Provider)
- No need of external controllers; a microcomputer is already installed in the robot arm
- The robot operation can be done from a normal PC or laptop, or a PLC (easy connection with a RS232C to USB cable)
- No safety fences needed
- Model without microcomputer available; this allows the robot user to gain control over the robot arm motors

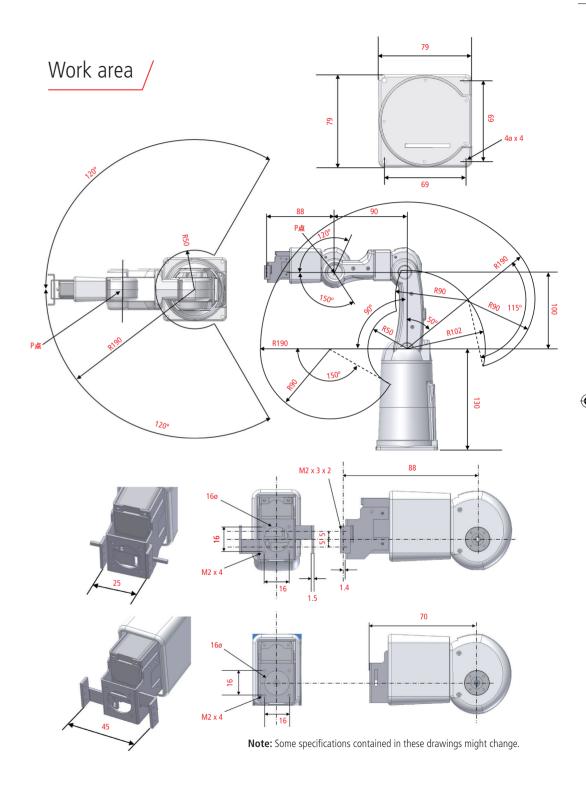
The new academic robot allows students to learn in an easy and safe way how to program and operate industrial robots using real technology!





Specifications		Unit	Academic robot
Number of axis		-	7 (incl. Gripper)
Mounting configuration		-	Floor
Maximum motion area (Point P: Wrist center)		mm	190
Payload		gr	150
Motion range	J1		±120
	J2 front	1	+90
	J2 rear	7	-50
	J3 front	deg	+150
	J3 rear		-115
	J4	7	±150
	J5 front	1	+150
	J5 rear	1	-120
	J6	7	±150
	J7 (servohand)	mm	Open / Close 20
Maximum composite speed		mm/s	5160
Position repeatability		mm	±1.5mm
Weight		gr	approx. 600
Position detection		-	High accuracy potentiometer
Driving motor		-	FUTABA RS303Mr. RS304MD
Power supply		-	AC100-240V 50-60Hz 1.5A

Note: Some specifications contained in this data sheet might change.



INSIDE FLAP

