COLLOBORATIVE ROBOTS TECHNICAL SPECIFICATION

i3

INDEX

Introduction:

DECELER – AUBO Cobots

DECELER is an new gen engineering organisation focusing on three verticals of the business FACTORY AUTOMATION - COBOT AUTOMATION - SAFETY AUTOMATION

DECELER started as a small business in 2013, and has always been driven by technology, core values and ethics. Our brand grows by adding new technology products with an expansion of geography in periodical manner understanding the necessity of customer demands in advance through our long vision on

Deceler's growth is built on three main roots which is customers – employees – business associates and along with these three combinations we also offer good products with best service that helps customers to gain trust on us which leads to increase in their numbers. Deceler spreads its across India and deals

AUBO COBOTS - Features and Benefits:

Safer
The products have passed the certification of PL=d, CAT3), ISO 10218 CE, UL, KCs, CR, SEMI S2 etc, all core parts are localized, and level-10 collision detection and sensor safety testing are supported, so no safety protection is required.

More open
The open system platform supports multiple communication methods, SDK and API, and can establish communication with multiple peripheral equipment such as terminal jig, visual and mobile equipment.

More precise
With repeatability of ±0.05mm, high-precision work can be completed continuously for a long time, thus greatly enhancing the production yield.

Simpler
Robots can be operated by many methods including dragging teaching, coordinate positioning, path planning and offline programming. The visual interface is simple and easy to learn.

Wider
The whole series products have a loading capacity of 3 to 16KG, which can cover different applications in each industry and have a wide range of applications.

Supply Description:

Payload - 3kg

Weight - 16kg

Repeatability - ±0.02mm

Reach - 625mm

Manipulator:

Degrees of freedom - 6

Reach(mm) - 625

Payload(kg) - 3

Weight(kg) - 16

Mounting surface diameter(mm) - Ø140

Repeatability (mm) - ±0.02

Linear velocity (m/s) - ≤1.9

Average power (W) - 150

Peak power (W) - 1000

Ambient temperature (°C) - 0-50

Ambient humidity - 25%-90%

Installation orientation - Any ceiling, floor, wall

IP Classification - IP54

Axis Movements:

Axis Movement	Working range (°)	Maximum speed (°/s)
joint 1	±360	178
joint 2	±360	178
joint 3	±360	178
joint 4	±360	237
joint 5	±360	237
joint 6	±360	237

Controller:

Model - **AUBO-CB-M**

Dimensions - 380mm*350mm*265mm

Weight - 15kg

Cabling Connecting the Robot - 5m (customizable, up to 8m)

Cabling Connecting the Teach Pendant - 4m

Communication - Ethernet/Modbus-RTU/TCP, Profinet (optional)

Interface - SDK（Support C/C++/C#/Lua/Python), Support ROS, API

Power Supply - 100-240VAC,50-60Hz

IP Classification - IP43

Control Box I/O/ Tool I/O		Control Box	Tool End
I/O Port	**Digital In**	16(general) /16(safe)	4 (optional)
	Digital Out	16(general) /16(safe)	4(optional)
	Analog In	4	2
	Analog Out	4	-
I/O Power	**Output Voltage**	24V	0V/12V/24V
	Output Current	3A Max	0.8A

Teach Pendant:
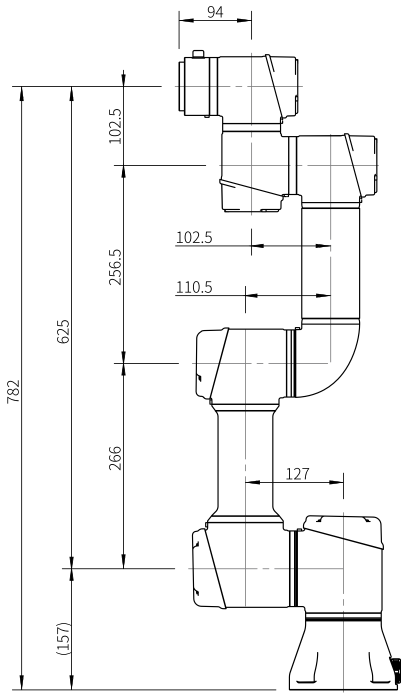

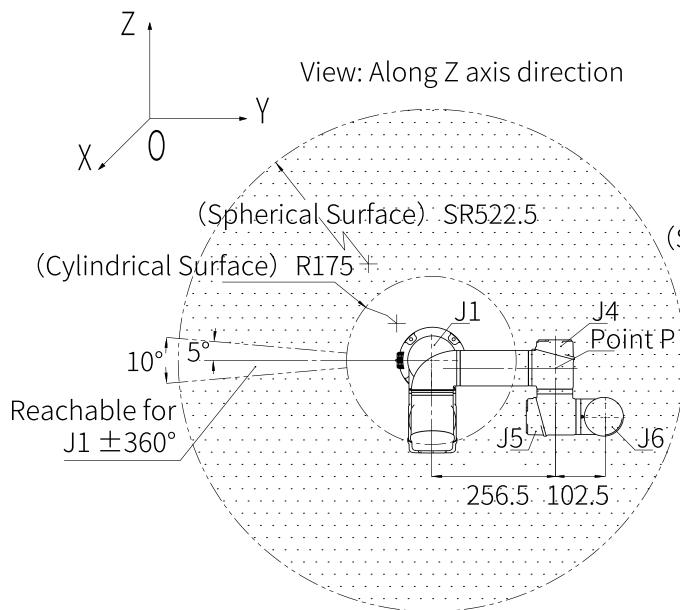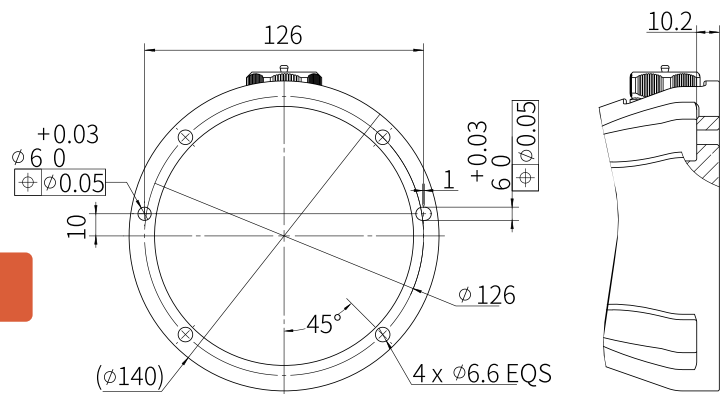Model - **AUBO - TP**

Dimensions - 355mm*235mm*54mm

Weight -1.57kg

IP Classification - IP43

Color - Orange+Black

Top View of the Base
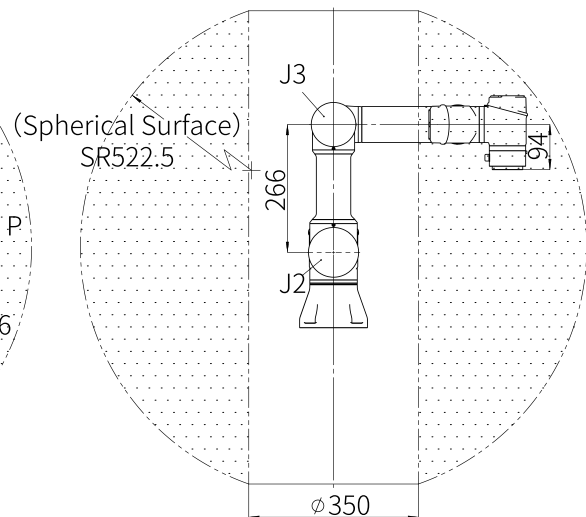
94
102.5
102.5
256.5
110.5
625
782
266
127
(157)

Overall Dimensions diagram:

126
10.2

$\phi 6 \begin{smallmatrix} +0.03 \\ 0 \end{smallmatrix}$
$\boxed{\phi 0.05}$

$\phi 6 \begin{smallmatrix} +0.03 \\ 0 \end{smallmatrix}$
$\boxed{\phi 0.05}$

10
1
$\phi 126$
45°
(∅140)
4 x ∅6.6 EQS

Moving Ranges diagram:

Z
Y
X
0

View: Along Z axis direction

View: Along X axis or Y axis direction

(Spherical Surface) SR522.5

(Cylindrical Surface) R175

10° 5°

Reachable for J1 ±360°

J1
J4
Point P
J5
J6
256.5 102.5

(Spherical Surface) SR522.5

J3
266
94
J2
∅350
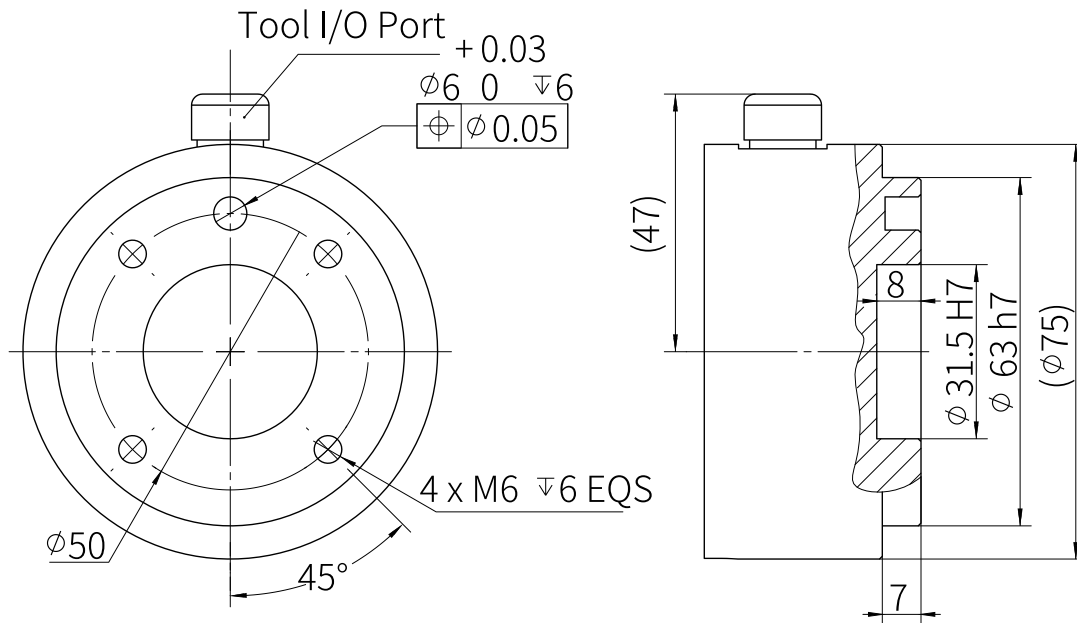
Tool End Flanges

Commercial Proposal

Pls refer COMMERCIAL OFFER attached as enclosure and pls refer SQNo for all future communication

Conclusion:

We are very thankful for the opportunity and cooperation that you have provided the requirement to submit our proposal for Deceler-Aubo Cobot in your premises.

AUBO
ROBOTICS

APPLICATION **CASES**

NEW RETAIL / SERVICES	HEALTHCARE	MOBILE COBOT	RESEARCH AND EDUCATION	OTHER FIELDS
Latte art robot	Massage robot	Inspection robot	Robot with digital twin technology	Agricultural picking High-voltage distribution cabinet operation
Beauty mystery box picking	Surgical robot	Intelligent archives	Music box assembly line	High-voltage distribution cabinet operation
Milk tea workstation	Reagent testing	5G Patrol robot	Education and training platform	Hygiene & cleaning

DECELER VIBROTEK CONTROLS PVT. LTD.

No 38, 1st Floor, Arul Mary Street, Soosaiya Nagar, Noombal, Chennai - 600 077. Tamilnadu, India.

Mob: 94455 25883   Email: sales@deceler.in   www.deceler.in

Chennai | Hyderabad | Vizag | Bengaluru | Delhi | Pune | Aurangabad