

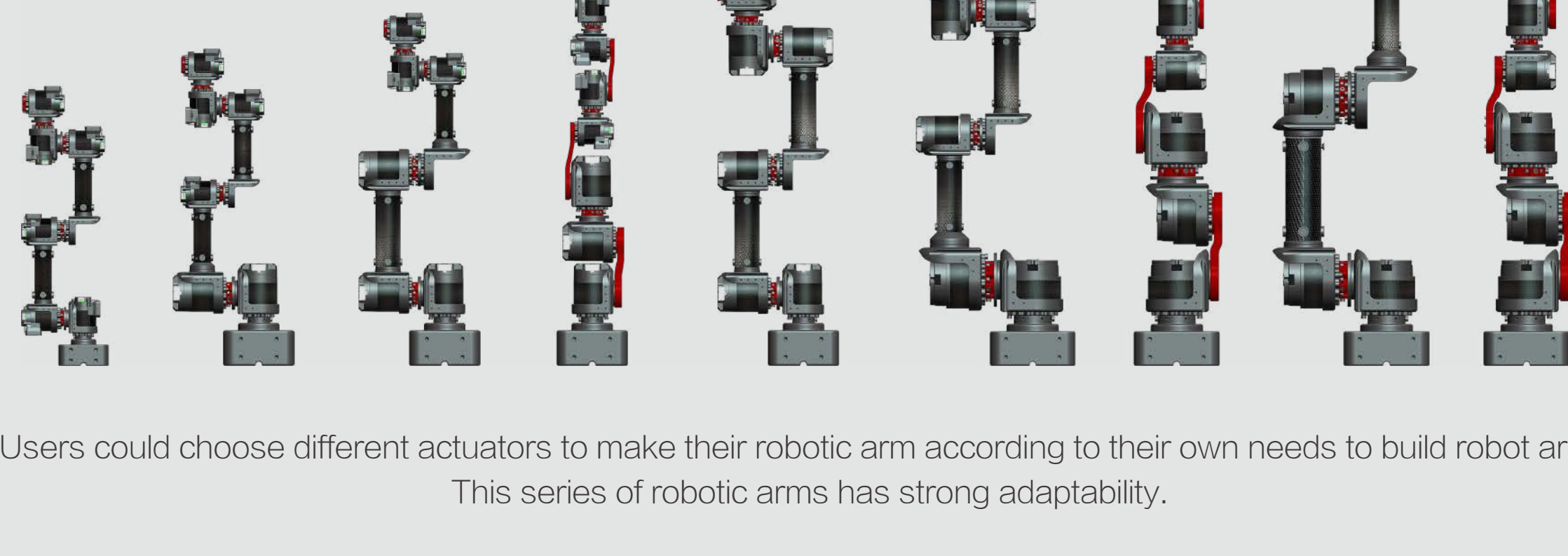
# GLUON | 胶子

## MODULAR ACTUATOR

模块化关节

6 / Axis

[www.innfos.com](http://www.innfos.com) | [wiki.innfos.com](http://wiki.innfos.com)

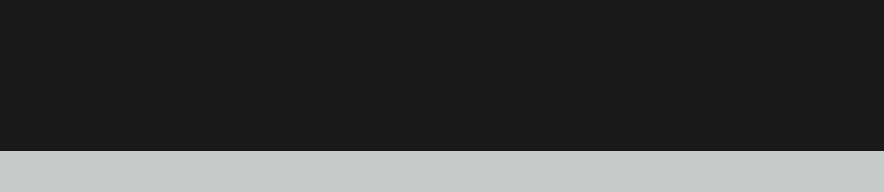


Users could choose different actuators to make their robotic arm according to their own needs to build robot arms. This series of robotic arms has strong adaptability.

## QDD Lite

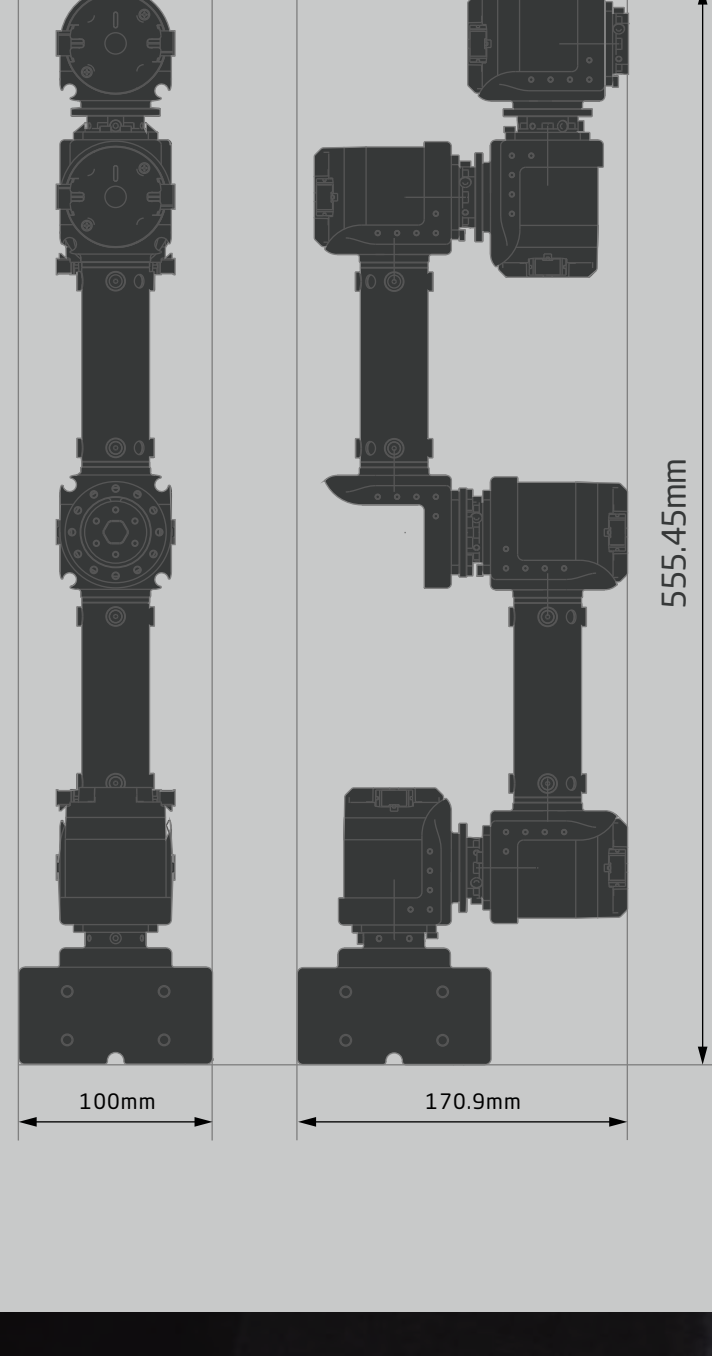
### Desktop Multi-axis Educational Robot

All joints are powered by SCR QDD Lite series. It reaches up to 430mm with 500g end load. Due to the composite materials, the BGD cost of high-end robots is greatly reduced. Gluon is mainly used in education fields, including colleges, laboratories, research institutes, competitions, etc.



### BASIC INFORMATION

Desktop 6-axis Gluon Parameters



<b>3.7</b> [kg]	<b>2.5</b> [kg]
Weight ( with base )	Weight ( without base )
<b>120</b> [w]	<b>6</b>
Power Dissipation	Degree of freedom
<b>42</b> [v]	<b>IP54</b>
Supply voltage	Protection level
<b>500</b> [g]	<b>2</b> [mm]
End load	Repeatability
<b>10~50</b> [°]	<b>5~95</b> [%]
Operating temperature	Working environment humidity

For more information, please go to [wiki.innfos.com](http://wiki.innfos.com)

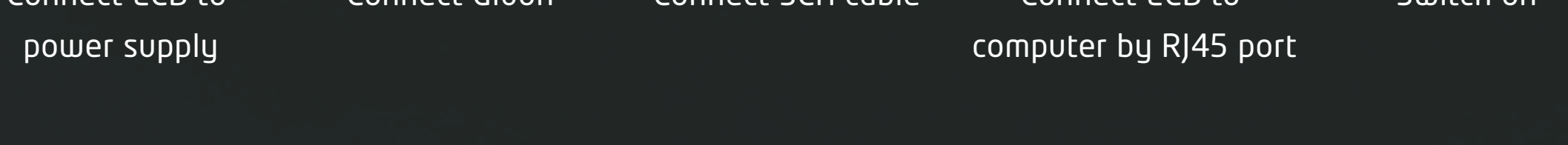


## HARDWARE AND SOFTWARE

**Prepare accessories: one Gluon, ECB with the terminal resistor and the regenerative brake capacitor, the emergency stop switch + power supply, and a computer. After preparing the accessories, the software is installed and used. The IAS (INNFOs Actuator Studio) is the upper computer software for Gluon. For more information, please go to [wiki.innfos.com](http://wiki.innfos.com).**

## ACCESSORIES

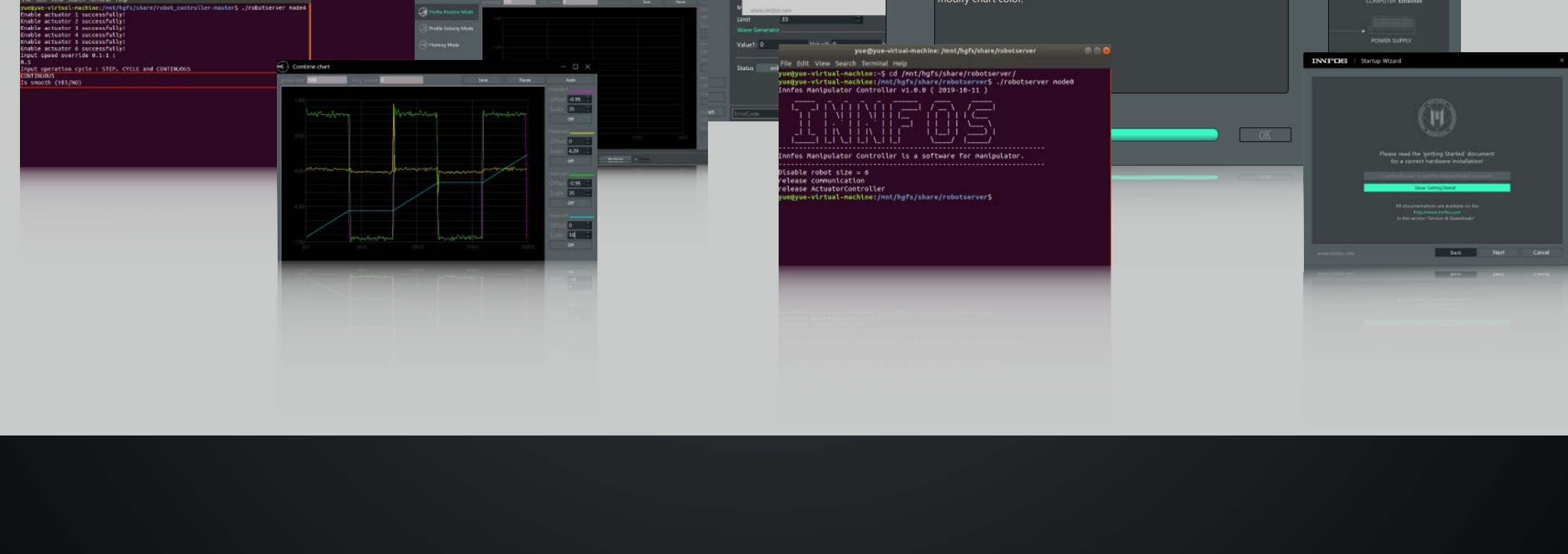
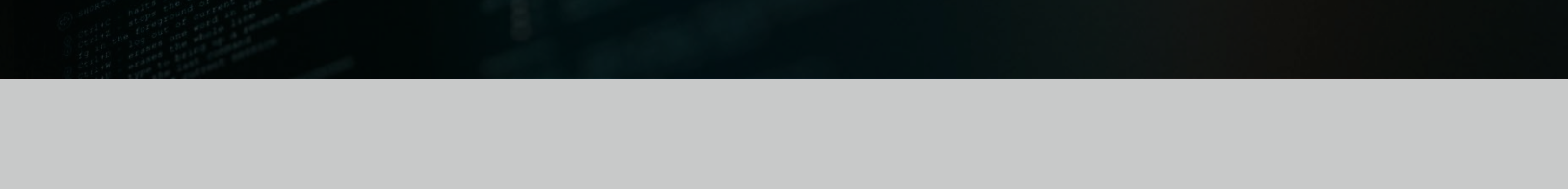
Professional supporting products including ECB, ECB power cable, Controller module, make Gluon easier and faster to use our products.



Note: The supply voltage range of SCA is DC 24V-45V. After power-on, the LED status light will turn yellow. The LED will flash green when turns on the SCA and the transmitter can communicate with the actuator. If an error occurs inside, the light will flash red, please check the actuator error code.

## SDK + IAS + IRS

INNFOs offers SDK, IAS and IRS for users. SDK provides APIs with various programming languages as well as logging tools for developers to control INNFOs SCA in different environments. IAS(INNFOs Actuator Studio) is a visual debug control software featuring trajectory control, ID modification, and visual graphic data regulation. IRS is an INNFOs robotic arm operation software that integrates trajectory planning and teaching programming which makes your an program according to specific application scenarios and operate the robot arm flexibly.



## INNFOs QDD Lite-NE30

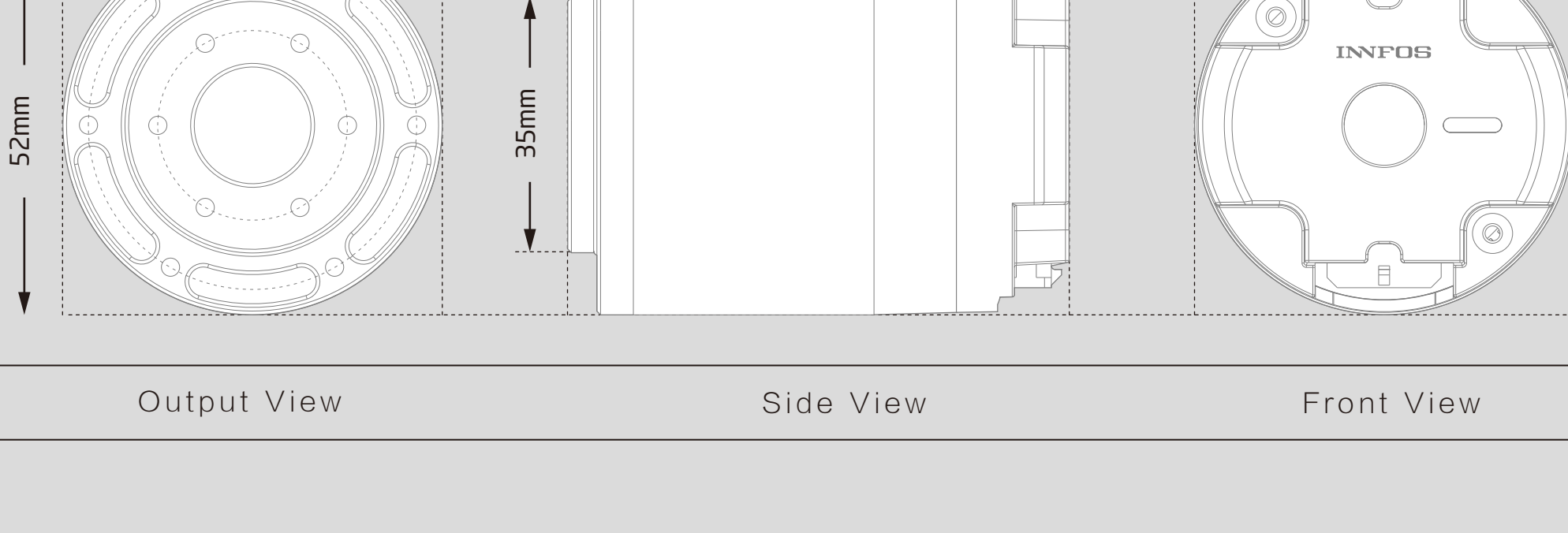
### High Performance with Low Cost INNFOs Compliant Actuator

Highly Integrated/ Hyper Torque/ Flexibility/ Strengthened Compliant Material  
Ultra-Lightweight Design/ Super cost-effective



## INNFOs QDD Lite-NE30

We fused superb motor, drive, encoder and reducer technology perfectly and provide solution for the revolution of robots!



Working Parameters	Basic Information	Mechanic Parameters
Power : 75W Nominal Speed : 167RPM No Load Speed : 42VDC Nominal Speed : 56RPM Nominal Torque : 2.3Nm Peak Torque : 10Nm Torque Coefficient : 1.2545Nm/A Full Range Phase Current : 16.5A Nominal Bus Current : 4.8A Static Bus Current : 0.08A	Motor Type : Brushless Servo Motor Rotation Range : 24~45VDC Reduction Ratio : 36: 1 Resolution : 589824(19bit)Step/turn Sensor : Multi-turn Absolute Encoder Signal Interface : Insulated CAN Rotation Range : > 360.0° Temperature Range : 0~+50 °C Noise Level : <=70dB(A)	Diameter : 52mm Length : 68.8mm Weight : 232.1g Backlash : 18Arc min Maximum Axial Load : 600N Maximum Radial Load : 900N Version : v1.8

## INDIVIDUAL PACKAGING

The individual packaging for SCA Lite we designed assures you receive our product in outstanding condition.

