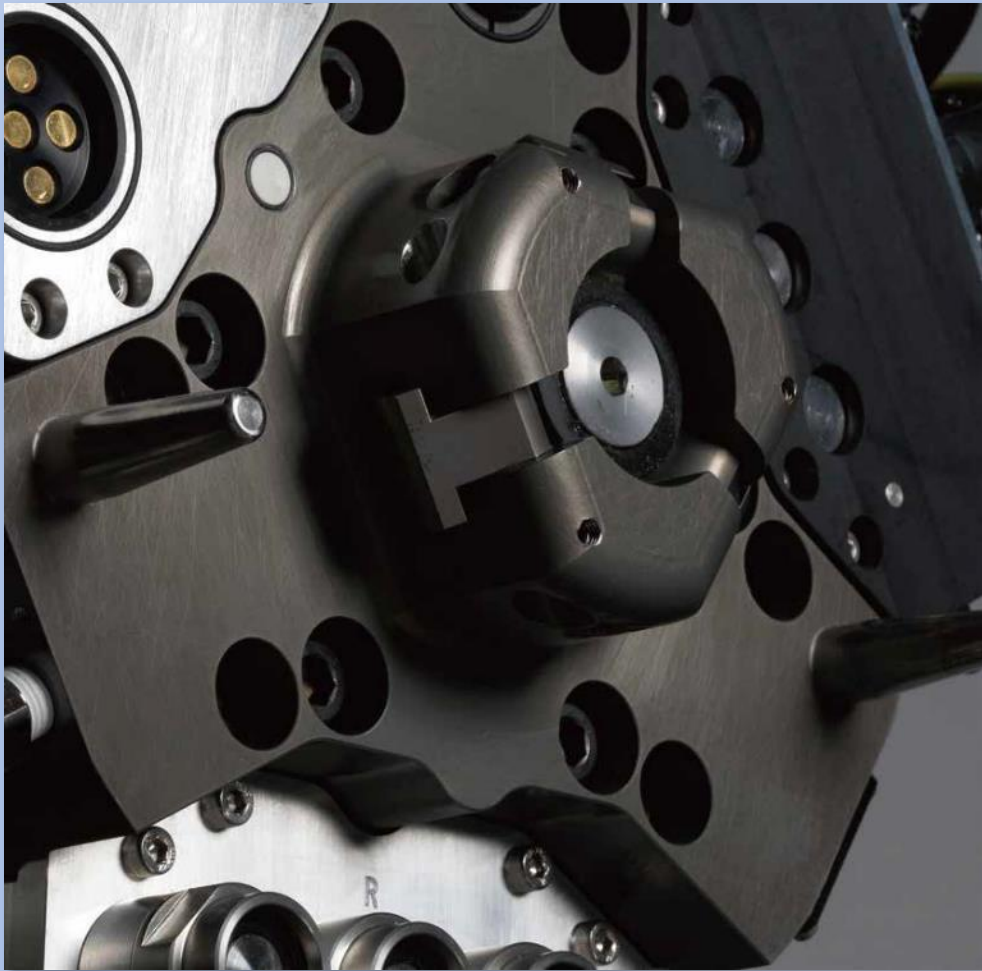


# NITTAOMEGA type M

**NEW!**

Successor model for NITTAOMEGA IV.



- \* 75mm thinner
- \* 6.2kg lighter
- \* Improved durability
- Running cost reductions
- \* Easier maintenance
- \* Water spill when chucked / unchucked is reduced
- \* Improved stability of the signal communication

Specification comparison with the current product

Item	NITTAOMEGA 4 (Current product)	NITTAOMEGA type M (New product)
Payload	200kg	250kg
Thickness when coupled	165mm (Plate 45mm)	90mm
Total weight of Robot + tool side	Servo gun spec: 17.2kg (with plate) Handling spec: 13.7kg (with plate)	Servo gun spec: 11kg Handling spec: 7.4kg
Outside diameter	Servo gun spec: R188mm Handling spec: R146mm	Servo gun spec: R178mm Handling spec: R156mm
Robot plate	Required	Not required (P.C.D.125)
Tool plate	Required	Not required (P.C.D.125)



Current product : NITTAOMEGA 4

New product: NITTAOMEGA type M

Please refer to the back side for details of each feature of type M.

## NITTA CORPORATION

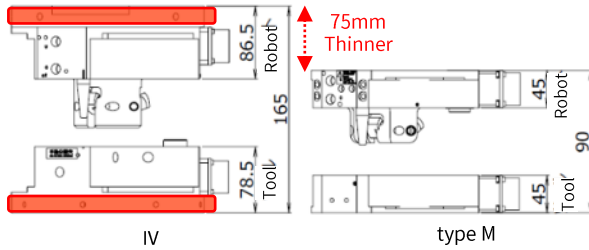
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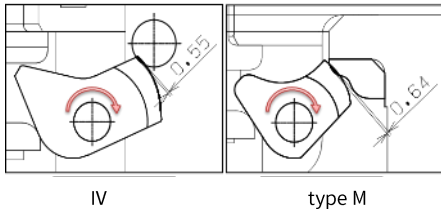
### Feature 1. No need for mounting plates. Thinner and lighter.

The adapter can be mounted directly on P.C.D.125mm. No mounting plate required.

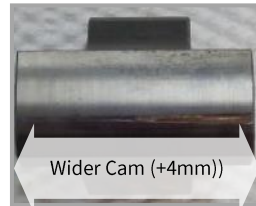


Mounting plate (robot side: thickness: 25mm, weight 2.7kg, tool side: thickness 20mm, weight 2.2kg) is not required.

### Feature 2. The durability is improved 80% by reducing cam wear and improving wear compensation. The total running cost is greatly reduced.

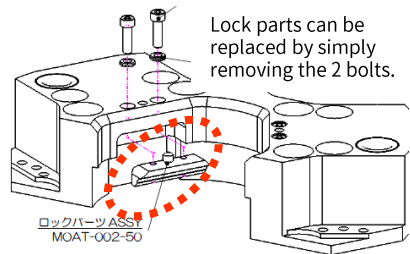


The cam wear limit increases and can be used for a long time.



Wider cam reduces wear progression.

### Feature 3. Easy to replace spare parts. Improved maintainability.



Lock parts can be replaced by simply removing the 2 bolts.



The water supply module can be replaced by port ASSY.

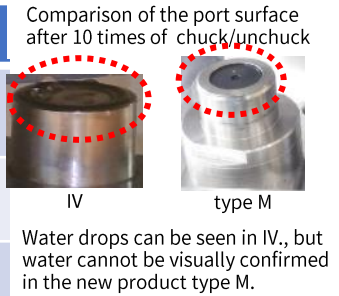


In addition to the tool side, the signal pin on the robot side can be replaced.

Other consumables (positioning taper pins, pivot pins, bushings, signal pins, etc.) can be replaced by customers.

### Feature 4. 90% reduction of water spill when chucked / unchucked.

Item	IV Current	type M New	Effect
Water spills	1	Less than 0.1	Minimization of line-stop risk in sparks due to water spills into electrical contacts
Cooling water	1	1.58	Significant increase in cooling efficiency due to increased water volume
Corrosion resistant	Aluminum body	Stainless body	Corrosion resistance is strong against water with minerals



### Feature 5. Achieve more reliable signal communication

The cause of the signal failure	Measures of type M
Dust such as spatters	Self-cleaning shape signal pin
Noise factor	Noise is cut off by the metal body. Twisted pairing of cables Optimization of wiring allocation

Twist pairing cables



The aluminum body shuts off noise. The inside is separated by a metal between the motor power and the signals.

### ★ For the customers who are considering of switching from IV to type M

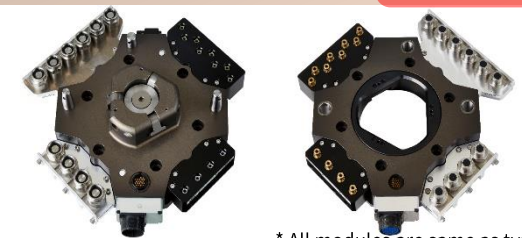
- \* type M modules can also be used for IV using mounting conversion brackets.
- \* Wiring and connectors are the same as IV. It can be easily switching from IV to type M

### NITTAOMEGA type series Heavy payload models

New product



type XM : 250 – 350kg payload



type L : 350 – 600kg payload

\* All modules are same as type M