

**New “MDC-A” models
Compact Under Water Cutter
for Compounding**

based on our rich know-how of high-capacity UWC

Outline

We, The Japan Steel Works, Ltd., have manufactured a great number of high-capacity underwater cutter (UWC) as well as high-capacity extruders, which are in service all over the world.

Recently, UWC of relatively lower capacity is in greater demand for pelletizing in compounding processes. To meet such needs, we have developed new “MDC-A” models, a series of compact and high-performance UWC based on our rich store of knowledge about high-capacity UWC.

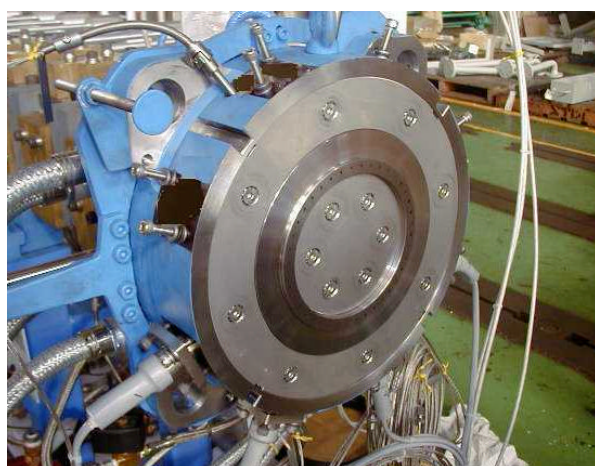


Fig. 1 Die Plate



Fig. 2 Appearance of MDC-5A

Major specifications

		MDC-5A	MDC-11A
Processing rate	kg/h	~1000	1000~2000
Cutter speed	rpm	Max. 3600	Max. 2600
Number of cutter blades		6 or 8	8 or 12
Motor power	kW	5.5	11
Die hole number (Φ2.4)		Max. 52	Max. 100
PCW piping size		2B	3B
Weight of unit	kg	Approx. 250	Approx. 500

Features of MDC-A series

- 1) The special structure without coupling to directly connect motor and cutter unit reduced the total length in half of the conventional models. This also allows very easy maintenance by eliminating a troublesome alignment.
- 2) You can select one of the following two measures for adjustment of the cutter position to compensate wear of the cutter knives during operation.
 - A : Fine adjustment by manual handle turning
 - B : Automatic positioning by proper forward pressure adjustment
- 3) Quick operation start-up is possible because of a special clamp for one-touch connection /disconnection between the die plate and the water chamber.
- 4) Electric heaters, hot oil or other heating methods are available for die plates. Heat channel structure for high heating efficiency is applied to the die plate for hot oil heating. Please let us know if you require the other heating method.
- 5) We can provide you long-life cutter knives of the optimum material and design based on our rich store of knowledge from high-capacity UWC.
- 6) PCW equipments necessary for cooling, conveying, dewatering, drying and classifying of pellets are installed together on a common bed as a compact unit.

Afterwords

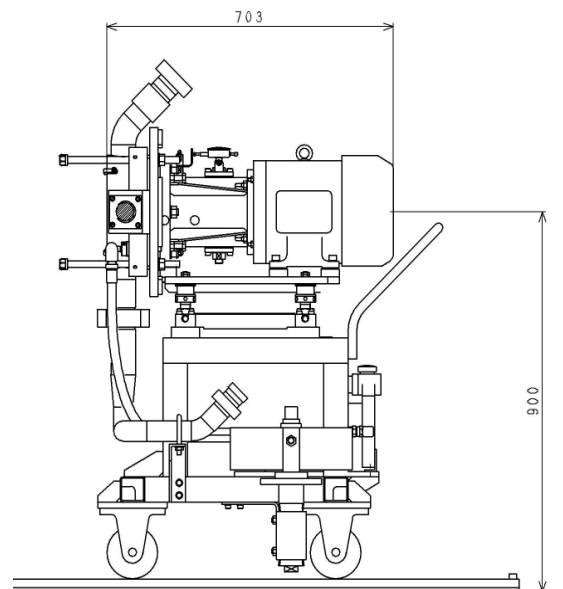
We are sure that these small-sized MDC-A models are very useful for easy handling and manpower saving especially in compounding processes.

MDC-A models are applicable to compound polymers of middle and higher viscosity as follows.

(Polymer alloys with polyolefin base
PP + Rubber + Talc (for automobiles etc.)
PE · PP + TiO₂
PE · PP + Carbon black ... etc.)

Please contact us if you have any question about the polymer application.

We have the test equipments in JSW compounding technical center, USA as well as in Plastics Machinery Developing Center, JAPAN, test equipments which are available for your trial to confirm the performance using your polymer material.



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