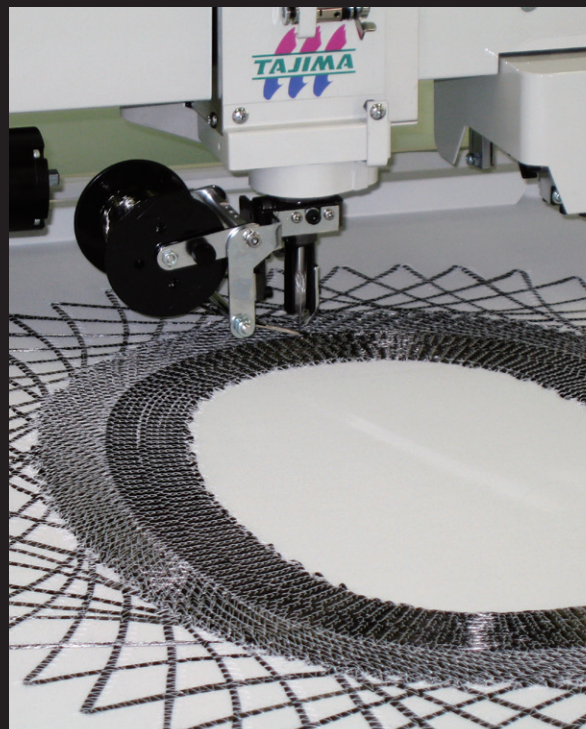


TCWM

TAJIMA COMPOSITE & WIRE MACHINE



Laying Composite Fiber Accurately

Composite fiber laying special machine, evolved with textile technology



The exclusive machine applying textile technology, has attracted advanced composite countries, Europe.

TCWM series enable to mass produce high-quality “pre-form” with minimum material waste.

High reproducibility

Each head controlled by computer lays fibers automatically and accurately. The minimum unit of stitching pitch is 0.1mm. The design pattern accurately appears as “pre-form”.

Mass-production

The machine is available with up to 16-heads. Thus 16 pieces, which are exactly the same, could be produced simultaneously.

High productivity

It is possible to produce with high speed, as maximum 1000 RPM.

In any direction

The fibers can be arranged in an angle from 0 to 360 according to stress vectors.

Multi-layer and partial reinforcement

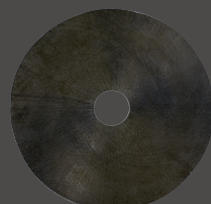
It is possible to pile fibers partially or entirely, in other words, it is possible to lay only the parts which need to be reinforced.

Plural material and arrangement

When using double-bobbin specification, it is possible to lay 2 different kinds of fibers.



Parabola Antenna



Bell Crank



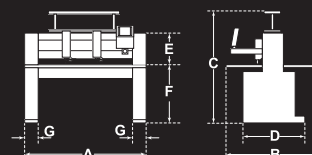
Micrometer



Orthosis

Specification

Model	needle	heads	Head interval	Laying space (mm)		A	B	C	D	E	F	G
				D x W	Continuous							
TCWM-101	1	1	-	450 x 520	-	1860	1430	1566	1000	360	839	100
TCWM-101	1	1	-	1500 x 1770	-	4555	3440	1660	1300	460	833	200
TCWM-102	1	2	1500	1500 x 1500	-	5515	3440	1660	1300	460	833	200
TCWM-104	1	4	1000	1000 x 1000	4000	6205	2440	1660	1300	460	833	200
TCWM-108	1	8	750	1500 x 750	6000	9700	3440	1760	1300	560	833	200
TCWM-110	1	10	750	1000 x 750	7500	9705	2440	1760	1300	560	833	200



Factory option	Auto-lubrication systems Jumbo hook Auto Frame Changer Dust-protection panel Wire feeding device Wire cutting device
Option	Needle detective sensor (only for wire)
Option	Jog remote-controller Fiber guide
Speed	Max. 1000rpm
Stitch length	0.1mm ~ 12.7mm
Power consumption	1.9kw
Electricity	3-phase 200-240V, 380-440V 50Hz/60Hz
Motor	AC servo motor x 1 (Main shaft) Pulse motor x 2 (Frame) Pulse motor x 4

*We reserve the right to change the specification for improvements without previous notice.

*Rotational speed may vary, depending on the applicable conditions, machine models or frame types.

*No design or registered trademark of the products contained in this catalog may be used without the prior permission.

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