

TAL Auto Lay-up Machine



特徴 / Features

高精度積層
Highly accurate lay-up



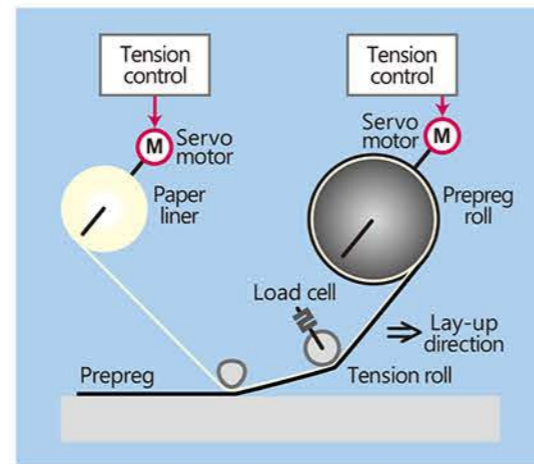
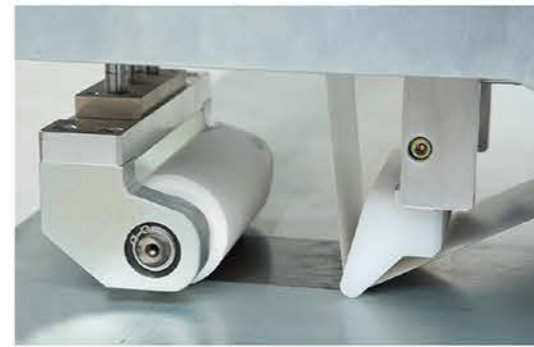
積層テープの幅精度は±0.5mm以内です。(テープ間ギャップ: 最大1mm)

Lay-up accuracy is controlled within a tolerance of ± 0.5 mm. (Clearance: max. 1 mm)



テープの先端・後端の位置決め精度は±1mm以内です。
Positioning accuracy of both tape ends is within ± 1 mm.

最適化された張力制御
Optimized tension control



繊維機械で培った張力制御技術により、最適張力でのテープの送り出しを行います。

Based on the tension control technology developed for textile machines, the tape is supplied with the best tension.

斜めカット機能
Angle tape cut capability



テープは任意の角度にカットが可能です(標準仕様で45°まで)。これによって両端を揃えることが可能になりました。

The tape can be cut with any angle (Up to 45° as standard spec.). This angle cut aligns both ends of the tape.

ハーフカット技術
Half cutting technology



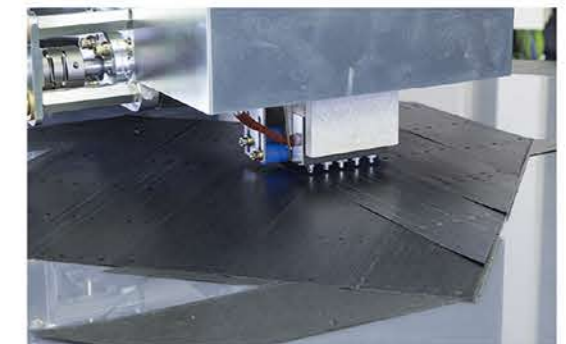
プリプレグは、ツダコマ独自の技術により、積層中ノンストップでハーフカットされます。

By using Tsudakoma's original technology, the prepreg tape is cut while the uncut backing paper is re-rolled simultaneously without the lay-up stopping.

各種材料への対応
Availability for various materials



熱硬化性材料 / Thermoset material



熱可塑性材料 / Thermoplastic material

積層ヘッドは、熱硬化性材料、熱可塑性材料に対応しています。

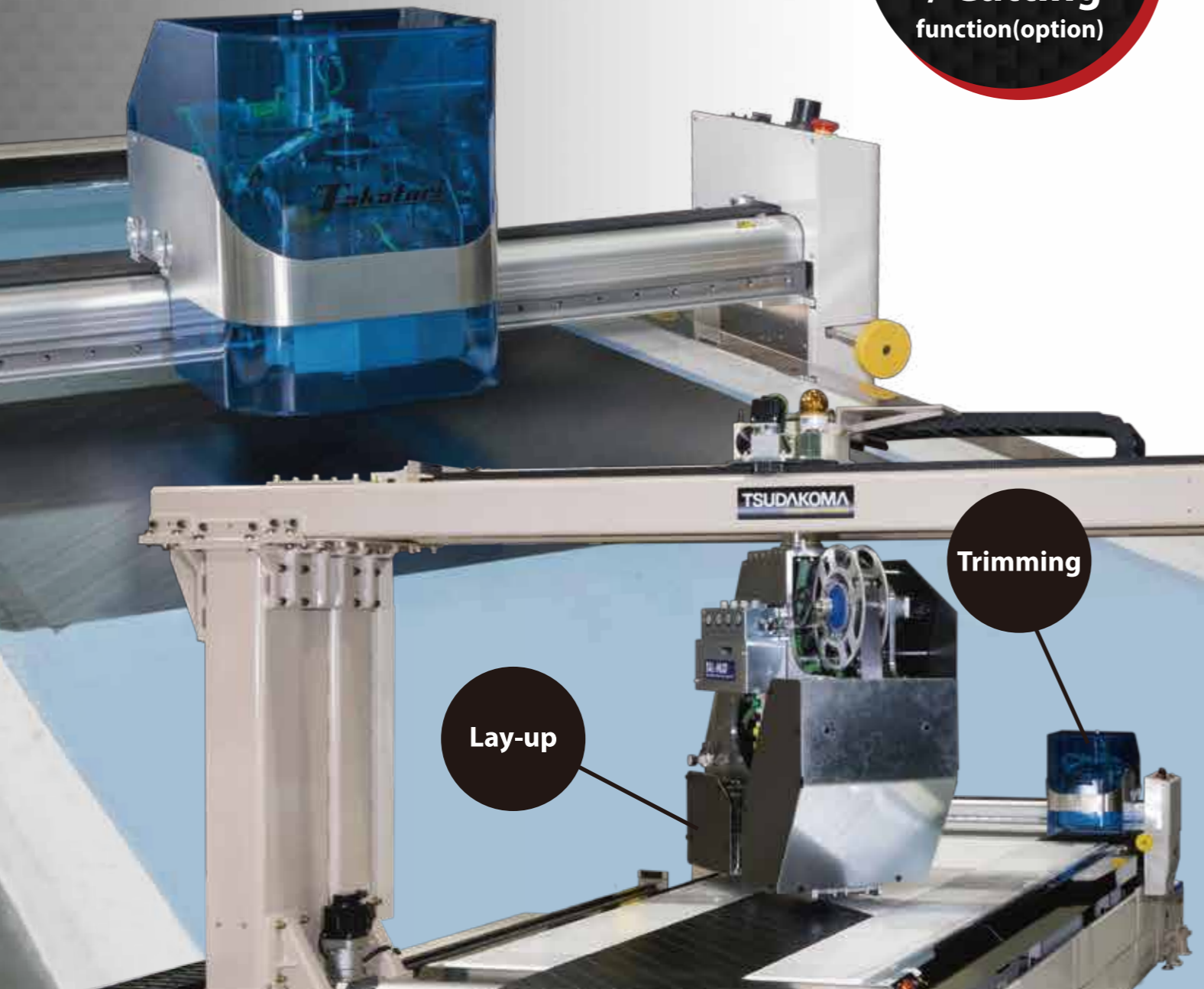
Two different type of lay-up heads are available: for thermoset material, for thermoplastic material.

ご要望の仕様に応じて、機械をカスタマイズ致します。
Machine specifications can be customized for the customer as requested.

TAL Auto Lay-up Machine

New trimming/cutting option on the lay-up table

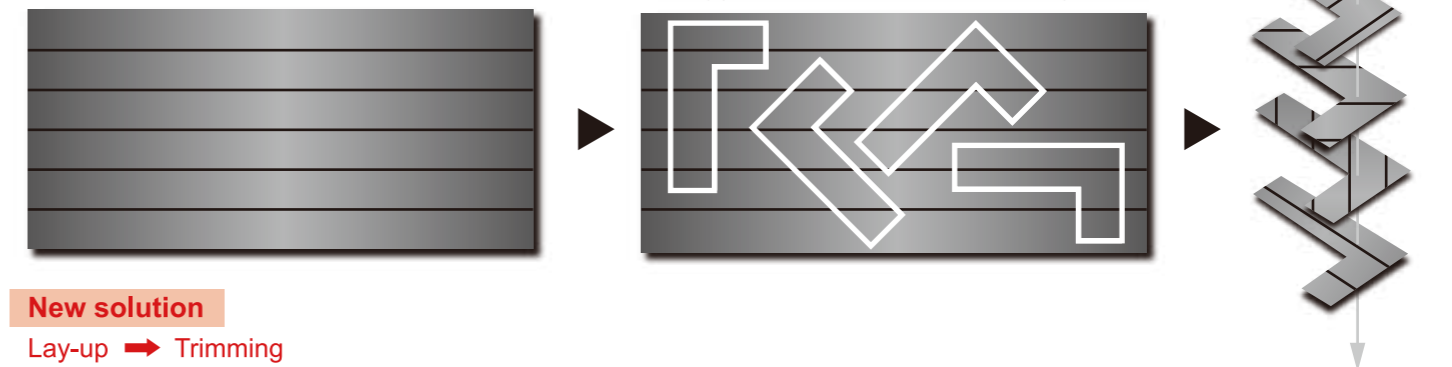
NEW!
Trimming / Cutting
function(option)



■ It saves scrap material even with small quantity production compared to conventional processes like lay-up after cutting.

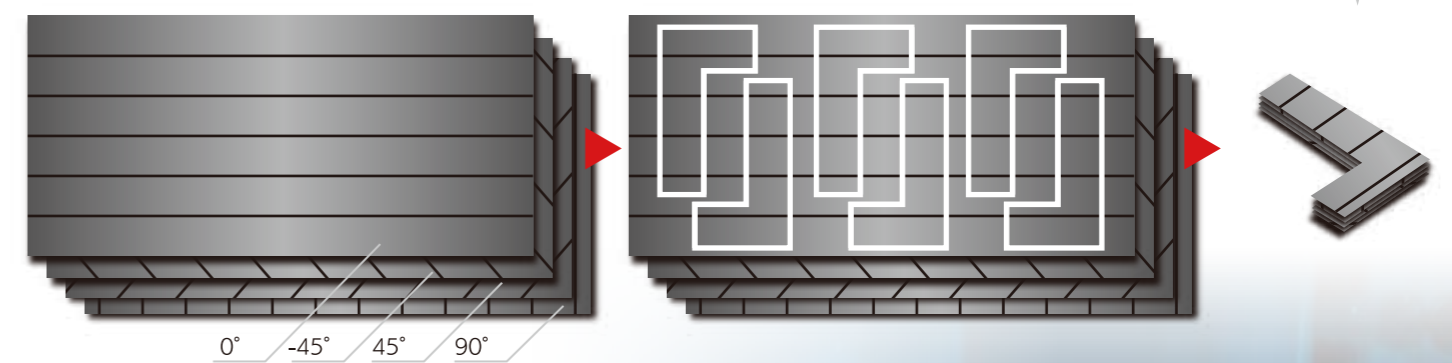
Conventional measure

Cutting → Lay-up

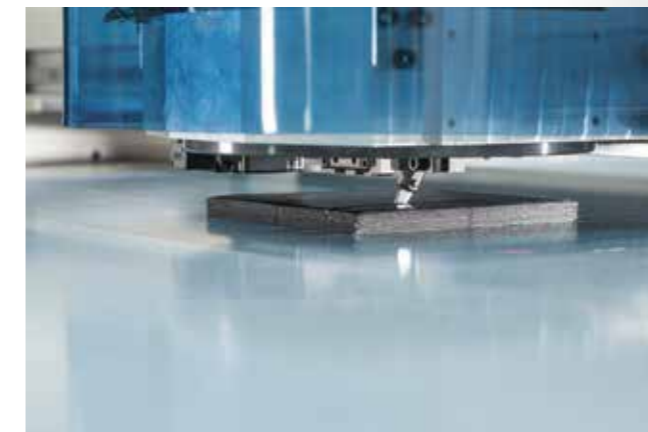


New solution

Lay-up → Trimming



■ Applicable for thick multi-layer (Adoption of ultrasonic cutter).
It can trim 80ply thermoset prepreg.



■ **Trimming can start right after lay-up on the same table.**
Shortens the cycle time by cutting multi-axial lay-up material without stopping.

■ **Available for thermoset, thermoplastic, and dry material.**

■ **The lay-up table with trimming function can be used as individual cutting machine for carbon fiber.**

Based on high performance auto cutting system made by TAKATORI Corporation.

Takatori
The Power of "T"
Technology Trust Teamwork

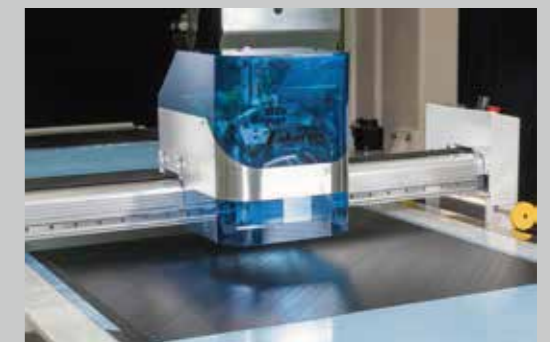
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DREAM NAVIGATOR
SINCE 1909
TSUDAKOMA

Main specification

Standard table	1200mm, 1600mm (Max. material width) Table is equipped with a vacuum.
Cutting table length (Customized length available)	2 m~12 m
The mechanical feed rate of the cutting head	Max. 60 m/min
CAD data	available
Option	Automatic label applicator

* Please contact us for more specifications.

* The mechanical feed rate of the cutting head is based on unloaded operation.
Cutting speed varies with conditions.



TSUDAKOMA Corp.
www.tsudakoma.co.jp