**Tests at STFI**

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If needed, RUCKS can support during tests!

# Continuous Compression Moulding System KV 325.00

## Automated, With Hydraulic Synchronous Drive


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# RUCKS Process Solutions
# Ergonomic, Efficient, Innovative

## Technical Data (extract)

### Consolidation Press

| | | | | | |
|---|---|---|---|---|---|
| Plate dimension | mm x mm | 1.200 x 630 | Closing speed | mm/s | 12 |
| Press force | kN | 2.000 | Opening speed | mm/s | 12 |
| Specific pressure | N/mm² | 2,65 | Press speed | mm/s | 2…5 |
| Daylight height | mm | 270 | Temperature range | ℃ | 40…451 |
| Stroke | mm | 200 | | | |

### Unwinding / Winding / Cutting Device

| | | | | | |
|---|---|---|---|---|---|
| Roll capacity | pieces | 8 up / 3 down | Roll width | mm | 610 |
| Maximum roll mass | kg | 50 (for material), 85 (for separating sheets) | | | |

### Feed

| | | |
|---|---|---|
| Speed, max. | mm/s | 200 (@ 30 kN), 150 (@ 40 kN) |
| Distance per stroke | mm | 5…150 |
| Drive | hydraulic | |

### Production speed

exemplary: 0,5 to 1,7 m/min depend on layer number, layer thickness, material

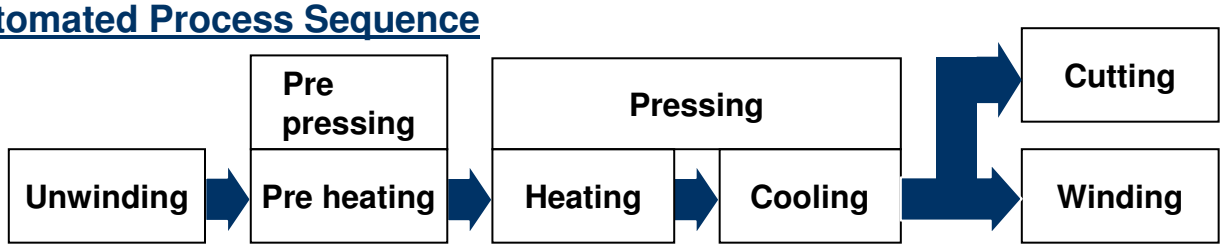
### Material Processing

| | |
|---|---|
| Kind of single layers | fabric, knitted fabric, UD fiber layer |
| Thermoplastic | PP, PA, PES, PPS, PEEK, PEI… |
| Reinforcing fiber | glass fiber, carbon fiber, aramid fiber, nature fiber… |
| Raw material | Hybrid nonwoven fabric (reinforcing fiber + thermoplastic fiber) or<br>Single layers (reinforcing fiber + thermoplastic film / nonwoven fabric |

### Control concept

RUxx LogicHP, Grossenbacher HMI Control, Step7 compatible

## Automated Process Sequence




## Application / Press Line Concept

- Automated complete press line for continuous, efficient process to manufacture semi finished fiber reinforced thermoplastic components to a roll or a sheet (organo sheet)

## Features

- Hydraulic synchronous press drive by means of four press cylinders
- Optional inclination of the moveable pressure plate → Adjustment to different pressure conditions
- Individual adjustable, thermal separated temperature zones → realization of material specific heating and cooling curves for formation of melt front along production direction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