Pickup / Tension testing

■ Conditions

Yarn type	C1200		
		Without a tension device [g]	Broken yarn detector [g]
Winding speed	100 M/min.	2.5	3.3
	150 M/min.	3.2	4.0
	200 M/min.	3.9	4.1
	300 M/min.	4.6	5.2

Pickup

Winding speed	Measurement with a tension monitor [g]	Actual tension at the pickup outlet [g]	Difference in tension from the case where the device is not used [g]	Difference in tension from the case of the broken yarn detector [g]
100 M/min.	3.2〜3.4	3.4	**0.9**	**0.1**
150 M/min.	3.8〜4.0	4.0	**0.8**	**±0**
200 M/min.	4.3〜4.4	4.2	**0.3**	**0.1**
300 M/min.	5.3〜5.5	5.1	**0.5**	**-0.1**

※By using our company's DST mounted with the function to detect broken yarns, it is possible to use it with only TPU, at almost the same level of tension as before.

Pickup/Broken yarn detector

Winding speed	Measurement with a tension monitor [g]	Actual tension at the pickup outlet [g]	Difference in tension from the case where only the pickup is used [g]
100 M/min.	4.1〜4.3	4.2	**0.8**
150 M/min.	4.7〜4.9	4.6	**0.6**
200 M/min.	5.3〜5.5	5.3	**1.1**
300 M/min.	6.3〜6.4	6.2	**1.1**