

oerlikon
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CompactTwister

Technical Specifications

Specifications for VTS-07 /-07-T /-07-0 with and without balloon limiter

Twisting range: 101 - 1667 T/m
2.57 - 42.34 T/inch

Spindle speed: up to 11,000 rpm
Twist insertion rate = up to 22,000 min⁻¹

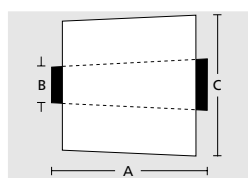
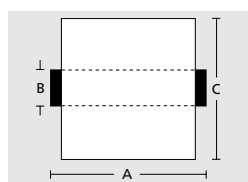
Count range:
acc. to spindle type: Nm 5/2 - 100/2

Delivery speeds:
Standard machine max. 80 m/min (*)
Machine with traverse variation max. 70 m/min (*)
Machine with servo gear max. 115 m/min (*)

(*) the maximum delivery speed will be reduced for the long machines (values upon request).

Twisted yarn packages

(Taper angles up to 5° 57')

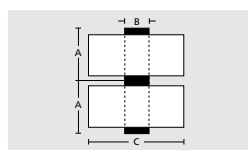
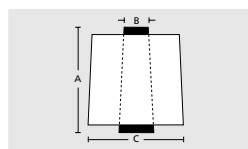
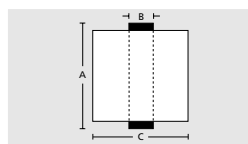


Net yarn weight (Cotton)	Winding traverse		Max. tube length	Min. tube bore	Max. package diameter
	inch	mm	A	B	C
grams			mm	mm	mm
max. 3500 (max. 4000) option	6 / 8* 6	152 / 204 152	175 / 230 175	16,5 / 33 16,5	280 (300) option

* Only for spindle type VTS-07-0

Feed packages

(tapered or cylindrical single-end yarn package and assembly-wound packages)



Volume	Winding traverse		Max. tube length	Min. tube bore	Max. package diameter
	inch	mm	A	B	C
ccm			mm	mm	mm
3200 / 3650	6	152	170	38	175 / 185
3800 / 4300	7	178	196	43	175 / 185
4400 / 4950	8	204	230	43	175 / 185
5300 / 5900	10	254	290	54	175 / 185
3000 / 3350	6	152	170	33	180 / 190
3400 / 3850	7	178	196	33	180 / 190
3800 / 4300	8	204	230	33	180 / 190
4500 / 5100	10	254	290	33	180 / 190
3150 / 3500	2 x 3 1/4	2 x 82,5	95	48	175 / 185
4100 / 4600	2 x 4	2 x 105	120	48	175 / 185
5600 / 6350	2 x 6	2 x 152	170	33 (tapered)	175 / 185
6250 / 7050	2 x 6	2 x 152	170	54 (cylindrical)	175 / 185

Feed package densities for different materials (random wind)

Density [gr/ccm] *	CO	WO	PAC	PES	Blends
	0.42 - 0.52	0.36 - 0.46	0.38 - 0.48	0.45 - 0.55	0.40 - 0.50

* The density that can be achieved depends inter alia on yarn tension, cross winding angle and material count. With the precision wind process, density increases of up to 20% can be achieved.



Specifications for VTS-08 /-08-S /-08-0 /-08-0-S with and without balloon limiter

Twisting range: 128 - 2800 T/m
3.12 - 71.09 T/inch

Spindle speed: up to 13,000 rpm
Twist insertion rate = up to 26,000 min⁻¹

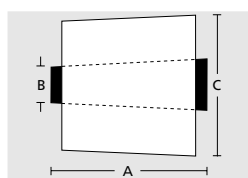
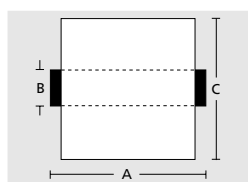
Count range:
acc. to spindle type: Nm 10/2 - 140/2

Delivery speeds:
Standard machine max. 80 m/min (*)
Machine with traverse variation max. 70 m/min (*)
Machine with servo gear max. 115 m/min (*)

(*) the maximum delivery speed will be reduced for the long machines (values upon request).

Twisted yarn packages

(Taper angles up to 5°57')

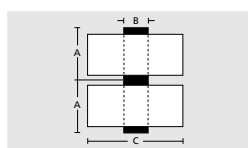
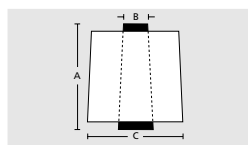
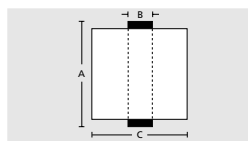


Net yarn weight (Cotton)	Winding traverse		Max. tube length	Min. tube bore	Max. package diameter
	inch	mm	mm	mm	mm
grams			A	B	C
max. 3500 (max. 4000) (option)	6 / 8* 6	152 / 204 152	175 / 230 175	16,5 / 33 16,5	280 (300) option

* Only for spindle type VTS-08-0-S

Feed packages

(tapered or cylindrical single-end yarn package and assembly-wound packages)



Volume	Winding traverse		Max. tube length	Min. tube bore	Max. package diameter
	inch	mm	mm	mm	mm
ccm			A	B	C
2500 3000 3450	6 7 8	152 178 204	170 196 230	38 38 43	155 155 155
2250 2600 3000	6 7 8	152 178 204	170 196 230	33 33 33	160 160 160
2350 3100 4200	2 x 3 ¹ / ₄ 2 x 4 2 x 6	2 x 82,5 2 x 105 2 x 152	95 120 170	48 48 33 (tapered)	155 155 155



Feed package densities for different materials (random wind)

Density [gr/ccm] *	CO	WO	PAC	PES	Blends
	0.42 - 0.52	0.36 - 0.46	0.38 - 0.48	0.45 - 0.55	0.40 - 0.50

* The density that can be achieved depends inter alia on yarn tension, cross winding angle and material count. With the precision wind process, density increases of up to 20% can be achieved.

Specifications for VTS-09 / -09-0 / -09-0-S with and without balloon limiter

Twisting range: 128 - 2800 T/m
3.12 - 71.09 T/inch

Spindle speed: up to 15,000 rpm
Twist insertion rate = up to 30,000 min⁻¹

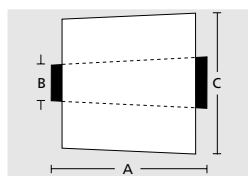
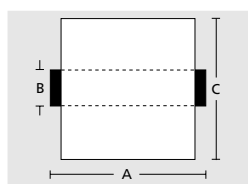
Count range:
acc. to spindle type: Nm 20/2 - 200/2

Delivery speeds:
Standard machine max. 80 m/min (*)
Machine with traverse variation max. 70 m/min (*)
Machine with servo gear max. 115 m/min (*)

(*) the maximum delivery speed will be reduced for the long machines (values upon request).

Twisted yarn packages

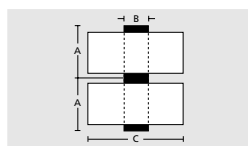
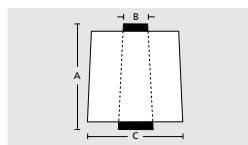
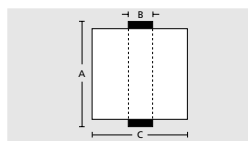
(Taper angles up to 5°57')



Net yarn weight (Cotton)	Winding traverse		Max. tube length	Min. tube bore	Max. package diameter
	inch	mm	mm	mm	mm
grams			A	B	C
max. 3500 (max. 4000) (option)	6	152	175	16,5	280 (300) option

Feed packages

tapered or cylindrical single-end yarn package and assembly-wound packages)



Volume	Winding traverse		Max. tube length	Min. tube bore	Max. package diameter
	inch	mm	mm	mm	mm
ccm			A	B	C
1900	6	152	170	38	135
2200	7	178	196	38	135
2500	8	204	230	43	135
1650	6	152	170	33	140
1900	7	178	196	33	140
2200	8	204	230	33	140
1650	2 x 3 1/4	2 x 82,5	95	48	135



Feed package densities for different materials (random wind)

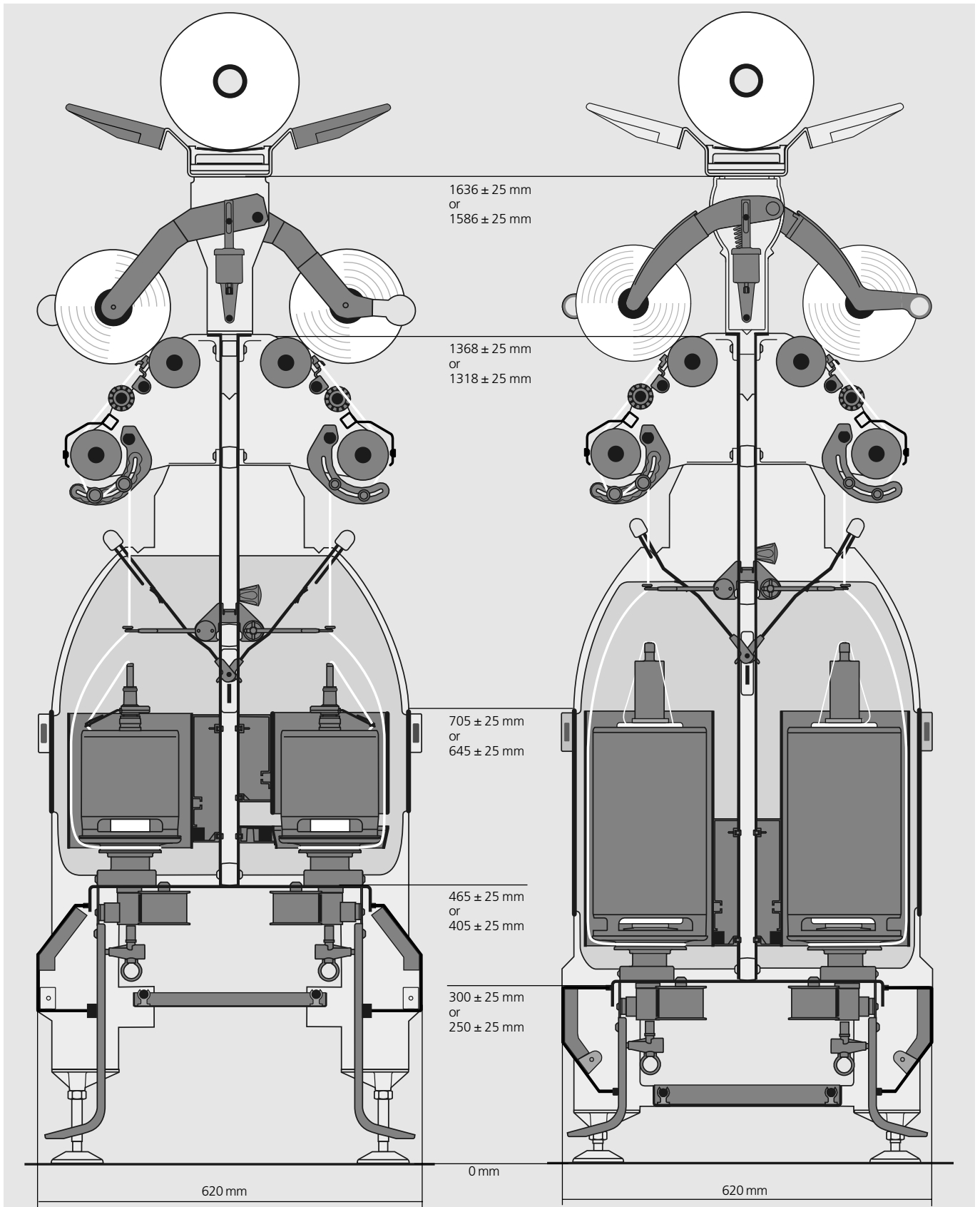
Density [gr/ccm] *	CO	WO	PAC	PES	Blends
	0.42 - 0.52	0.36 - 0.46	0.38 - 0.48	0.45 - 0.55	0.40 - 0.50

* The density that can be achieved depends inter alia on yarn tension, cross winding angle and material count. With the precision wind process, density increases of up to 20% can be achieved.

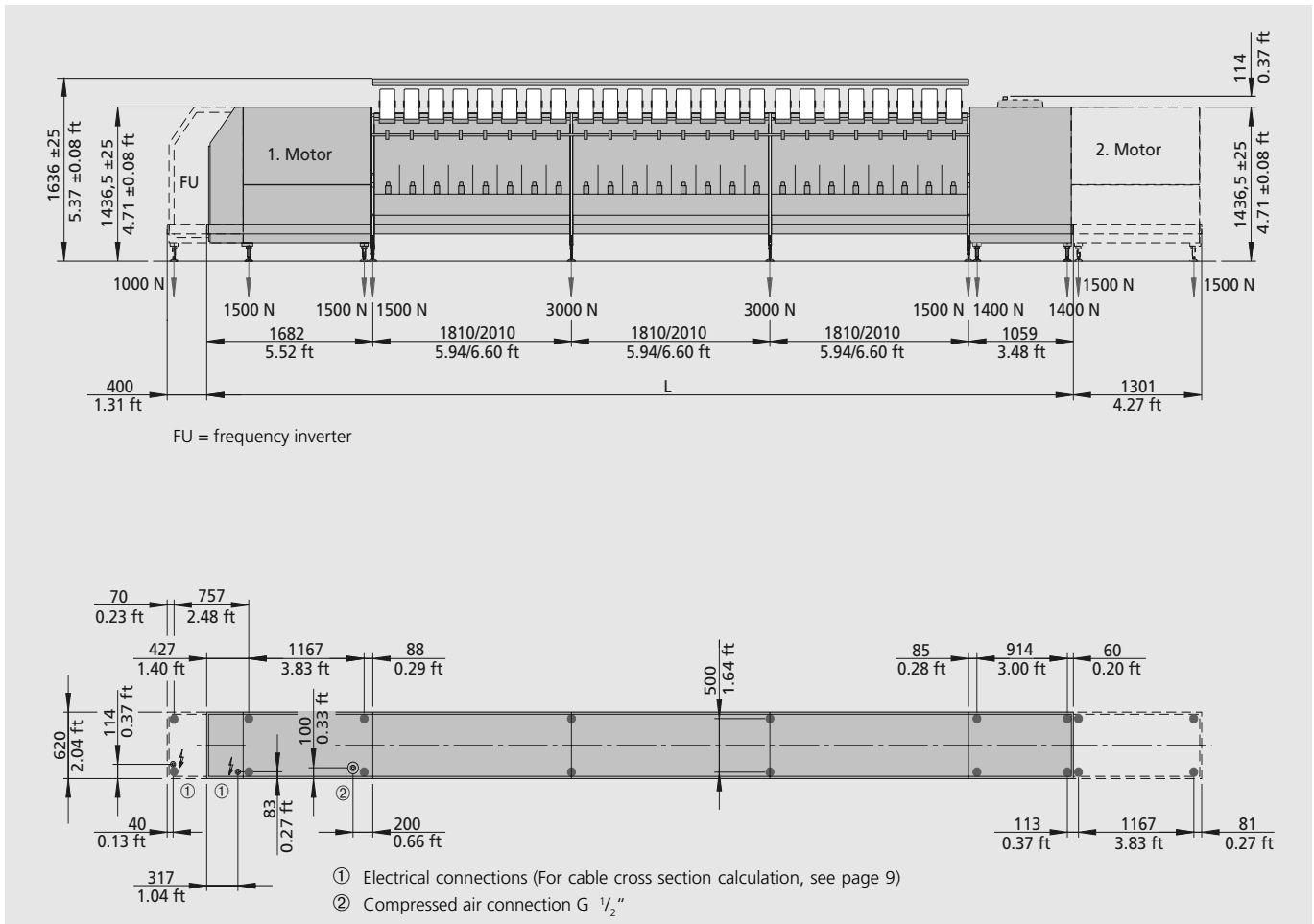
Machine cross sections

Volkmann CompactTwister of reduced-height design for the processing of feed packages of 10" x 2x6".

Volkmann CompactTwister of standard design for the processing of feed packages up to 8" (2 x 4").



Foundation plans for CompactTwister



* In machines with two-motor drive system:
 Total length + 1301 mm (4.27 ft) and total weight + 6000 N
 In machines with frequency inverter:
 Total length + 400 mm (1.31 ft) and total weight + 2000 N

VTS-08/-09

Sectional gauge 2010 mm / Spindle gauge 198.0 mm

Number of sections	1	2	3	4	5	6	7	8	9	10
Number of spindles	20	40	60	80	100	120	140	160	180	200
Total weight (N)	17600	23600	29600	35600	41600	47600	53600	59600	65600	71600
Total length L (mm) *	4751	6761	8771	10781	12791	14801	16811	18821	20831	22841
Total length L (ft) *	15.59	22.17	28.78	35.38	41.97	48.57	55.16	61.76	68.35	74.94
Number of sections	11	12	13	14	15	16	17			
Number of spindles	220	240	260	280	300	320	340			
Total weight (N)	77600	83600	89600	95600	101600	107600	113600			
Total length L (mm) *	24851	26861	28871	30881	32891	34901	36911			
Total length L (ft) *	81.55	88.14	94.72	101.32	107.91	114.50	121.10			

VTS-07/-07-T/-08-S/-09-0

Spindle gauge 1810 mm / Spindle gauge 222.5 mm

Number of sections	1	2	3	4	5	6	7	8	9	10
Number of spindles	16	32	48	64	80	96	112	128	144	160
Total weight (N)	17600	23600	29600	35600	41600	47600	53600	59600	65600	71600
Total length L (mm) *	4551	6361	8171	9981	11791	13601	15411	17221	19031	20841
Total length L (ft) *	14.93	20.87	26.81	32.75	38.69	44.63	50.57	56.50	62.44	68.39
Number of sections	11	12	13	14	15	16	17	18	19	20
Number of spindles	176	192	208	224	240	256	272	288	304	320
Total weight (N)	77600	83600	89600	95600	101600	107600	113600	119600	125600	131600
Total length L (mm) *	22651	24461	26271	28081	29891	31701	33511	35321	37131	38941
Total length L (ft) *	74.32	80.27	86.21	92.13	98.07	104.00	109.94	115.88	121.82	127.76

VTS-08-0/-09-0-S

Spindle gauge 2010 mm / Spindle gauge 247.5 mm

Number of sections	1	2	3	4	5	6	7	8	9	10
Number of spindles	16	32	48	64	80	96	112	128	144	160
Total weight (N)	17600	23600	29600	35600	41600	47600	53600	59600	65600	71600
Total length L (mm) *	4751	6761	8771	10781	12791	14801	16811	18821	20831	22841
Total length L (ft) *	15.59	22.19	28.78	35.38	41.97	48.57	55.16	61.76	68.35	74.94
Number of sections	11	12	13	14	15	16	17	18	19	20
Number of spindles	176	192	208	224	240	256	272	288	304	320
Total weight (N)	77600	83600	89600	95600	101600	107600	113600	119600	125600	131600
Total length L (mm) *	24851	26861	28871	30881	32891	34901	36911	38921	40931	42941
Total length L (ft) *	81.55	88.14	94.72	101.32	107.91	114.50	121.10	127.69	134.29	140.88

VTS-07-0/-08-0-S

Spindle gauge 1810 mm / Spindle gauge 296.0 mm

Number of sections	1	2	3	4	5	6	7	8	9	10
Number of spindles	12	24	36	48	60	72	84	96	108	120
Total weight (N)	17600	23600	29600	35600	41600	47600	53600	59600	65600	71600
Total length L (mm) *	4551	6361	8171	9981	11791	13601	15411	17221	19031	20841
Total length L (ft) *	14.93	20.87	26.81	32.75	38.69	44.63	50.57	56.50	62.44	68.39
Number of sections	11	12	13	14	15	16	17	18	19	20
Number of spindles	132	144	156	168	180	192	204	216	228	240
Total weight (N)	77600	83600	89600	95600	101600	107600	113600	119600	125600	131600
Total length L (mm) *	22651	24461	26271	28081	29891	31701	33511	35321	37131	38941
Total length L (ft) *	74.32	80.27	86.21	92.13	98.07	104.00	109.94	115.88	121.82	127.76

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