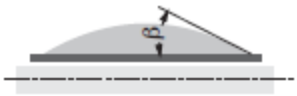
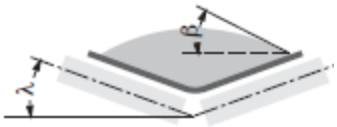


Tab. **5₂ - Loaded volume**
with flat roller sets **v = 1 m/s**

Belt width mm	Angle of surcharge β	İVT m³/h λ = 0°	Belt width mm	Angle of surcharge β	İVT m³/h λ = 0°
300	5°	3.6	1600	5°	152.6
	10°	7.5		10°	305.6
	20°	15.4		20°	630.7
	25°	20.1		25°	807.1
	30°	25.2		30°	1008.7
400	5°	7.5	1800	5°	194.7
	10°	15.1		10°	389.8
	20°	31.3		20°	804.9
	25°	39.9		25°	1029.9
	30°	50.0		30°	1287.0
500	5°	12.6	2000	5°	241.9
	10°	25.2		10°	484.2
	20°	52.2		20°	1000.0
	25°	66.6		25°	1279.4
	30°	83.5		30°	1599.1
650	5°	22.3	2200	5°	295.5
	10°	45.0		10°	591.1
	20°	93.2		20°	1220.4
	25°	119.5		25°	1560.8
	30°	149.4		30°	1949.4
800	5°	35.2	2400	5°	353.1
	10°	70.9		10°	706.3
	20°	146.5		20°	1458.3
	25°	187.5		25°	1865.1
	30°	198.3		30°	2329.5
1000	5°	56.8	2600	5°	415.9
	10°	114.4		10°	831.9
	20°	236.8		20°	1717.9
	25°	301.6		25°	2197.1
	30°	377.2		30°	2744.1
1200	5°	83.8	2800	5°	484.0
	10°	167.7		10°	968.0
	20°	346.3		20°	1998.7
	25°	436.6		25°	2556.3
	30°	554.0		30°	3192.8
1400	5°	115.5	3000	5°	557.1
	10°	231.4		10°	1114.2
	20°	478.0		20°	2300.4
	25°	611.6		25°	2942.2
	30°	763.2		30°	3674.8

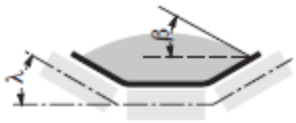


Tab. **5b - Loaded volume**
with 2 roll troughing sets **v = 1 m/s**

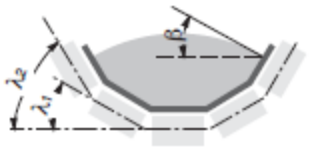
Belt width mm	Angle of surcharge β	$\dot{V}_T$ m³/h λ = 20°
300	5°	17.6
	10°	20.5
	20°	28.8
	25°	32.0
	30°	36.3
400	5°	34.5
	10°	41.4
	20°	55.8
	25°	63.7
	30°	72.0
500	5°	57.6
	10°	68.7
	20°	92.8
	25°	105.8
	30°	119.8
650	5°	102.9
	10°	123.1
	20°	165.9
	25°	189.3
	30°	214.5
800	5°	175.6
	10°	192.9
	20°	260.2
	25°	296.6
	30°	336.2
1000	5°	317.1
	10°	310.6
	20°	418.6
	25°	477.3
	30°	541.0

Tab. 5c **- Loaded volume**
with 3 roll troughing sets **v = 1 m/s**

Belt width mm	Angle of surcharge β	I_{VT} m³/h λ = 20°	λ = 25°	λ = 30°	λ = 35°	λ = 45°
300	5°	13.3	15.1	17.2	18.7	21.6
	10°	16.9	18.7	20.5	21.6	24.4
	20°	24.4	26.2	27.7	28.8	30.6
	25°	27.7	30.2	31.6	32.4	33.8
	30°	33.4	34.9	36.0	36.3	37.8
400	5°	28.0	32.4	36.6	39.6	45.7
	10°	35.2	29.2	43.2	45.3	51.4
	20°	50.4	54.3	57.2	59.4	66.3
	25°	56.8	62.2	65.1	66.6	69.8
	30°	67.7	70.9	73.4	74.5	77.0
500	5°	47.8	55.8	62.6	68.0	78.4
	10°	60.1	67.3	73.4	78.4	87.4
	20°	85.3	91.8	97.2	101.1	106.9
	25°	96.1	104.7	109.8	112.6	117.7
	30°	114.1	119.1	123.8	126.0	129.6
650	5°	87.8	101.8	114.4	124.9	143.2
	10°	109.4	122.4	134.2	142.9	159.1
	20°	154.4	166.3	176.4	183.6	193.6
	25°	174.2	189.7	198.7	204.4	212.4
	30°	205.5	215.2	223.5	227.8	233.6
800	5°	139.6	162.0	182.1	198.3	227.1
	10°	173.6	194.4	212.7	226.8	252.0
	20°	244.0	262.8	278.2	290.1	306.0
	25°	275.0	299.1	313.2	322.9	334.8
	30°	324.0	339.4	352.4	359.2	367.9
1000	5°	227.1	263.8	296.2	322.9	368.6
	10°	281.1	315.3	345.6	368.6	408.6
	20°	394.9	425.5	450.7	469.8	494.6
	25°	444.9	483.8	506.5	522.0	541.0
	30°	523.4	548.6	569.1	580.6	594.0
1200	5°	335.8	389.8	438.1	477.0	545.0
	10°	415.0	465.4	510.1	543.9	602.6
	20°	581.7	627.1	664.2	692.6	728.2
	25°	655.2	712.8	745.9	768.9	795.9
	30°	770.4	807.4	837.7	855.0	873.3
1400	5°	465.8	540.7	606.9	661.3	753.8
	10°	574.9	644.7	706.3	753.4	834.1
	20°	804.9	867.6	918.7	957.9	1006.9
	25°	906.4	985.3	1031.4	1063.4	1100.1
	30°	1064.8	1116.3	1157.7	1181.8	1206.3



Belt width mm	Angle of surcharge β	IVT m³/h λ = 20°	λ = 25°	λ = 30°	λ = 35°	λ = 45°
1600	5°	616.6	716.0	803.8	875.5	997.5
	10°	760.6	863.2	934.5	997.2	1102.6
	20°	1063.8	1146.9	1214.2	1266.4	1330.2
	25°	1198.0	1302.1	1363.3	1405.4	1452.9
	30°	1432.8	1474.9	1529.6	1561.3	1593.0
1800	5°	788.7	915.4	1027.8	1119.6	1274.7
	10°	972.3	1090.8	1194.4	1274.4	1409.0
	20°	1353.2	1465.2	1551.2	1617.8	1698.8
	25°	1530.7	1663.2	1740.0	1794.9	1854.7
	30°	1796.4	1883.1	1953.0	1993.6	2032.9
2000	5°	981.7	1139.7	1279.8	1393.9	1586.5
	10°	1209.9	1357.2	1486.4	1586.1	1752.8
	20°	1690.0	1822.3	1929.2	2012.0	2112.1
	25°	1903.6	2068.2	2164.6	2231.6	2305.8
	30°	2233.4	2341.4	2427.8	2478.6	2526.8
2200	5°	1185.1	1371.5	1545.4	1691.3	1908.1
	10°	1461.1	1634.4	1796.0	1925.2	2109.2
	20°	2048.0	2199.9	2331.7	2433.2	2546.2
	25°	2316.2	2496.8	2613.6	2698.4	2777.9
	30°	2716.9	2826.3	2930.0	2995.2	3045.5
2400	5°	1403.7	1632.9	1832.9	2010.7	2275.5
	10°	1730.5	1945.8	2130.1	2288.8	2514.2
	20°	2431.0	2618.6	2776.3	2896.2	3041.2
	25°	2749.4	2972.1	3112.2	3211.8	3317.9
	30°	3225.0	3364.4	3488.7	3565.0	3636.4
2600	5°	1670.0	1936.7	2175.9	2382.4	2697.3
	10°	2058.8	2307.9	2528.6	2711.8	2981.5
	20°	2886.4	3099.6	3281.7	3425.0	3592.0
	25°	3264.5	3518.0	3678.7	3798.3	3918.8
	30°	3829.2	3982.3	4123.8	4216.1	4295.0
2800	5°	1930.8	2240.7	2517.8	2759.4	3119.7
	10°	2380.3	2670.1	2926.0	3141.0	3448.4
	20°	3342.6	3592.0	3805.5	3971.5	4168.4
	25°	3780.0	4076.9	4265.9	4404.3	4547.7
	30°	4433.9	4615.0	5185.6	4888.7	4984.2
3000	5°	2227.0	2585.8	2905.6	3184.8	3597.8
	10°	2745.7	3079.0	3376.8	3625.2	3976.9
	20°	3851.2	4140.3	4390.9	4579.5	4800.2
	25°	4355.7	4699.2	4922.1	5078.6	5237.0
	30°	5109.2	5319.4	5517.6	5637.2	5739.7



Tab. 5_d **- Loaded volume**
with 5 roll troughing sets **v = 1 m/s**

Belt width mm	Angle of surcharge β	i_{VT} m³/h λ1 30°	λ2 60°
800	5°	236.5	
	10°	260.2	
	20°	313.9	
	25°	342.0	
	30°	372.9	
1000	5°	388.8	
	10°	427.3	
	20°	510.4	
	25°	556.2	
	30°	606.2	
1200	5°	573.1	
	10°	630.0	
	20°	751.3	
	25°	816.6	
	30°	892.4	
1400	5°	797.4	
	10°	876.6	
	20°	1041.4	
	25°	1135.0	
	30°	1237.3	
1600	5°	1075.3	
	10°	1181.8	
	20°	1371.9	
	25°	1495.0	
	30°	1629.7	
1800	5°	1343.1	
	10°	1476.0	
	20°	1749.6	
	25°	1906.9	
	30°	2078.6	
2000	5°	1679.7	
	10°	1846.0	
	20°	2185.2	
	25°	2381.7	
	30°	2595.9	
2200	5°	2049.1	
	10°	2251.1	
	20°	2661.8	
	25°	2901.2	
	30°	3162.2	
2400	5°	2459.8	
	10°	2703.2	
	20°	3185.2	
	25°	3471.8	
	30°	3784.3	
2600	5°	2899.4	
	10°	3186.3	
	20°	3755.1	
	25°	4092.8	
	30°	4461.4	
2800	5°	3379.3	
	10°	3713.7	
	20°	4372.2	
	25°	4765.6	
	30°	5194.4	
3000	5°	3863.5	
	10°	4245.8	
	20°	5018.4	
	25°	5469.8	
	30°	5962.3	