

# Conversion Tables, Measurements Drawings

Contents .....	Page
<b>1. Torque wrench settings. ....</b>	<b>2</b>
1.1 Conversion table for model 290 torque multiplier. ....	5
1.2 Conversion table for SWEENEY 292 torque multiplier. ....	6
1.3 Conversion table for STAHLWILLE 392 torque multiplier. ....	7
1.4 Conversion between kpm, Nm and ft.-lbs. ....	8
<b>2. Wrench openings (in mm). ....</b>	<b>10</b>
<b>3. Conversion table between Celsius and Farnheit grades. ....</b>	<b>11</b>
<b>4. Conversion table between m/s and mph ....</b>	<b>12</b>
<b>5. V39, measurement drawing. ....</b>	<b>13</b>
<b>6. V42, measurement drawing. ....</b>	<b>14</b>
<b>7. V44, measurement drawing. ....</b>	<b>15</b>
<b>8. V47, measurement drawing. ....</b>	<b>16</b>
<b>9. V39-500 kW, top view. ....</b>	<b>17</b>
<b>10. V39-500 kW, side view. ....</b>	<b>18</b>
<b>11. V42/V44-600 kW, top view. ....</b>	<b>19</b>
<b>12. V42/V44-600 kW, side view. ....</b>	<b>20</b>
<b>13. V47-660/200 kW, top view. ....</b>	<b>21</b>
<b>14. V47-660/200 kW, side view. ....</b>	<b>22</b>

---

# 1. Torque wrench settings.

Table over torque wrench settings, which are used if no other value is specified in the S&M manual. All torque wrench are for bolts greased with the following oil types:  
 Texaco White Oil Pharmaceutical, Texaco Meropa, Texaco UniSpray BIO 60.

ISO 4014 tZn/gal Zn bolts, ISO 4017 tZn/gal Zn set screws, ISO 4032 tZn/gal Zn nuts and ISO 7040 gal Zn lock nuts.

Standard thread tZn/gal Zn									
Smearred with mineral oil					Dry				
8.8					10.9				
M6	9	Nm	12	Nm	M6	10	Nm	15	Nm
M8	21	Nm	29	Nm	M8	25	Nm	36	Nm
M10	42	Nm	59	Nm	M10	51	Nm	71	Nm
M12	72	Nm	101	Nm	M12	88	Nm	123	Nm
M16	174	Nm	245	Nm	M16	213	Nm	300	Nm
M20	339	Nm	477	Nm	M20	414	Nm	583	Nm
M24	584	Nm	822	Nm	M24	714	Nm	1004	Nm
M27	862	Nm	1212	Nm	M27	1058	Nm	1488	Nm
M30	1171	Nm	1646	Nm	M30	1434	Nm	2017	Nm
M33	1582	Nm	2238	Nm	M33	1945	Nm	2736	Nm
M36	2036	Nm	2864	Nm	M36	2500	Nm	3515	Nm
M39	2633	Nm	3703	Nm	M39	3242	Nm	4559	Nm
M42	3263	Nm	4589	Nm	M42	4011	Nm	5640	Nm

ISO 4765 black bolts, ISO 8676 black set screws, ISO 8673 - 8 black nuts and ISO 7040 - 8 gal Zn lock nuts.

Fine thread black/gal Zn									
Smearred with mineral oil									
8.8					10.9				
M8 x 1	22	Nm	31	Nm					
M10 x 1.25	44	Nm	62	Nm					
M12 x 1.5	75	Nm	106	Nm					
M14 x 1.5	123	Nm	173	Nm					
M16 x 1.5	185	Nm	260	Nm					
M20 x 1.5	372	Nm	523	Nm					
M24 x 2	632	Nm	888	Nm					
M30 x 2	1241	Nm	1745	Nm					

ISO 4014-DeltaMagni-treated bolts and ISO 4017 DeltaMagni-treated set screws.

<b>Standard thread, DeltaMagni</b>									
<b>Smeared with oil</b>					<b>Dry</b>				
	<b>8.8</b>		<b>10.9</b>			<b>8.8</b>		<b>10.9</b>	
M6	7	Nm	10	Nm	M6	8	Nm	12	Nm
M8	18	Nm	25	Nm	M8	20	Nm	29	Nm
M10	35	Nm	50	Nm	M10	41	Nm	57	Nm
M12	61	Nm	86	Nm	M12	70	Nm	99	Nm
M16	147	Nm	207	Nm	M16	169	Nm	238	Nm
M20	286	Nm	402	Nm	M20	329	Nm	463	Nm
M24	493	Nm	693	Nm	M24	567	Nm	797	Nm
M27	724	Nm	1018	Nm	M27	835	Nm	1175	Nm
M30	985	Nm	1385	Nm	M30	1135	Nm	1596	Nm
M33	1327	Nm	1865	Nm	M33	1533	Nm	2155	Nm
M36	1710	Nm	2405	Nm	M36	1973	Nm	2775	Nm
M39	2205	Nm	3101	Nm	M39	2551	Nm	3587	Nm
M42	2737	Nm	3848	Nm	M42	3161	Nm	4446	Nm

ISO 8765-DeltaMagni-treated bolts and ISO 8676 DeltaMagni-treated set screws.

<b>Fine thread, DeltaMagni</b>									
<b>Smeared with oil</b>					<b>Dry</b>				
	<b>8.8</b>		<b>10.9</b>			<b>8.8</b>		<b>10.9</b>	
M8 x 1	19	Nm	26	Nm	M8 x 1	22	Nm	30	Nm
M10 x 1.25	37	Nm	52	Nm	M10 x 1.25	43	Nm	60	Nm
M12 x 1.5	63	Nm	89	Nm	M12 x 1.5	73	Nm	103	Nm
M14 x 1.5	103	Nm	145	Nm	M14 x 1.5	119	Nm	168	Nm
M16 x 1.5	155	Nm	217	Nm	M16 x 1.5	179	Nm	252	Nm
M20 x 1.5	309	Nm	434	Nm	M20 x 1.5	360	Nm	506	Nm
M24 x 2	526	Nm	739	Nm	M24 x 2	611	Nm	859	Nm
M30 x 2	1028	Nm	1445	Nm	M30 x 2	1200	Nm	1687	Nm

ISO 4014- Dacromet-treated bolts and ISO 4017 Dacromet-treated set screws.

<b>Standard thread, Dacromet 500A</b>				
<b>Dry and smeared with oil</b>				
	<b>8.8</b>		<b>10.9</b>	
M6	9	Nm	12	Nm
M8	22	Nm	30	Nm
M10	43	Nm	60	Nm
M12	74	Nm	104	Nm
M16	180	Nm	253	Nm
M20	349	Nm	491	Nm
M24	602	Nm	846	Nm
M27	888	Nm	1249	Nm
M30	1206	Nm	1696	Nm
M33	1631	Nm	2293	Nm
M36	2098	Nm	2951	Nm
M39	2715	Nm	3817	Nm
M42	3363	Nm	4729	Nm

ISO 8765- Dacromet-treated bolts and ISO 8676- Dacromet-treated set screws.

<b>Fine thread Dacromet 500A.</b>				
<b>Dry and smeared with oil</b>				
	<b>8.8</b>		<b>10.9</b>	
M8 x 1	23	Nm	32	Nm
M10 x 1.25	45	Nm	64	Nm
M12 x 1.5	78	Nm	109	Nm
M14 x 1.5	127	Nm	178	Nm
M16 x 1.5	191	Nm	269	Nm
M20 x 1.5	384	Nm	540	Nm
M24 x 2	652	Nm	917	Nm
M30 x 2	1282	Nm	1802	Nm

ISO 7412 bolts, ISO 7414 nuts and ISO 7416 washers.

<b>ISO 7412, 7414, 7416</b>			
<b>Pretreated with MoS<sub>2</sub> from the boltfactory</b>			
	<b>10.9</b>		
M12	100	Nm	
M16	250	Nm	
M20	450	Nm	
M24	800	Nm	
M27	1250	Nm	
M30	1650	Nm	
M36	2800	Nm	

## 1.1 Conversion table for model 290 torque multiplier.

Product: SARGENT INDUSTRIES / SWEENEY DIVISION

Conversion factor for Model 290 Torque Multiplier = 3.3:1 (0.303)

The first column (marked (1)) shows the normal torque setting and the second column (marked(2)) shows the torque setting to be used when the torque multiplier is placed between the torque wrench and top.

Max. torque setting: **814 Nm or 599 ft.-lbs.**

(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
10	3	210	64	410	124	610	185
20	6	220	67	420	127	620	188
30	9	230	70	430	130	630	191
40	12	240	73	440	133	640	194
50	15	250	76	450	136	650	197
60	18	260	79	460	139	660	200
70	21	270	82	470	142	670	203
80	24	280	85	480	145	680	206
90	27	290	88	490	148	690	209
100	30	300	91	500	151	700	212
110	33	310	94	510	154	710	215
120	36	320	97	520	157	720	218
130	39	330	100	530	160	730	221
140	42	340	103	540	163	740	224
150	45	350	106	550	166	750	227
160	48	360	109	560	169	760	230
170	51	370	112	570	173	770	233
180	54	380	115	580	176	780	236
190	58	390	118	590	179	790	239
200	61	400	121	600	182	800	242

## 1.2 Conversion table for SWEENEY 292 torque multiplier.

Product: SARGENT INDUSTRIES / SWEENEY DIVISION

Conversion factor for Model 292 Torque Multiplier = 4.0:1 (0.25)

The first column (marked (1)) shows the normal torque setting and the second column (marked (2)) shows the torque setting to be used when the torque multiplier is placed between the torque wrench and top. The table must not be used for DIN 6914, HV-bolts.

Max. torque setting: **2712 Nm or 2000 ft.-lbs.**

(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
20	5	420	105	820	205	1220	305	1620	405
40	10	440	110	840	210	1240	310	1640	410
60	15	460	115	860	215	1260	315	1660	415
80	20	480	120	880	220	1280	320	1680	420
100	25	500	125	900	225	1300	325	1700	425
120	30	520	130	920	230	1320	330	1720	430
140	35	540	135	940	235	1340	335	1740	435
160	40	560	140	960	240	1360	340	1760	440
180	45	580	145	980	245	1380	345	1780	445
200	50	600	150	1000	250	1400	350	1800	450
220	55	620	155	1020	255	1420	355	1820	455
240	60	640	160	1040	260	1440	360	1840	460
260	65	660	165	1060	265	1460	365	1860	465
280	70	680	170	1080	270	1480	370	1880	470
300	75	700	175	1100	275	1500	375	1900	475
320	80	720	180	1120	280	1520	380	1920	480
340	85	740	185	1140	285	1540	385	1940	485
360	90	760	190	1160	290	1560	390	1960	490
380	95	780	195	1180	295	1580	395	1980	495
400	100	800	200	1200	300	1600	400	2000	500

### 1.3 Conversion table for STAHLWILLE 392 torque multiplier.

Manufacturer: STAHLWILLE-Multipower

Conversion factor for STAHLWILLE STW 392 Torque multiplier = 13.6:1 (0.07353)

The first column (marked (1)) shows the normal torque setting and the second column (marked (2)) shows the torque setting to be used when the torque multiplier is placed between the torque wrench and top. The table must not be used for DIN 6914, HV-bolts.

Max. torque setting: 2983 Nm or 2200 ft.-lbs.

(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
20	1	420	31	820	60	1220	90	1620	119
40	3	440	32	840	62	1240	91	1640	121
60	4	460	34	860	63	1260	93	1660	122
80	6	480	35	880	65	1280	94	1680	124
100	7	500	37	900	66	1300	96	1700	125
120	9	520	38	920	68	1320	97	1720	126
140	10	540	40	940	69	1340	99	1740	128
160	12	560	41	960	71	1360	100	1760	129
180	13	580	43	980	72	1380	101	1780	131
200	15	600	44	1000	74	1400	103	1800	132
220	16	620	46	1020	75	1420	104	1820	134
240	18	640	47	1040	76	1440	106	1840	135
260	19	660	49	1060	78	1460	107	1860	137
280	21	680	50	1080	79	1480	109	1880	138
300	22	700	51	1100	81	1500	110	1900	140
320	24	720	53	1120	82	1520	112	1920	141
340	25	740	54	1140	84	1540	113	1940	143
360	26	760	56	1160	85	1560	115	1960	144
380	28	780	57	1180	87	1580	116	1980	146
400	29	800	59	1200	88	1600	118	2000	147

## 1.4 Conversion between kpm, Nm and ft.-lbs.

Conversion table between kpm, Nm and ft.-lbs.

kpm	Nm	ft.-lbs	kpm	Nm	ft.-lbs	kpm	Nm	ft.-lbs
			40	392	289	80	785	579
1	10	7	41	402	297	81	795	586
2	20	14	42	412	304	82	804	593
3	29	22	43	422	311	83	814	601
4	39	29	44	432	318	84	824	608
5	49	36	45	441	326	85	834	615
6	59	43	46	451	333	86	844	622
7	69	51	47	461	340	87	853	629
8	78	58	48	471	347	88	863	637
9	88	65	49	481	355	89	873	644
10	98	72	50	491	362	90	883	651
11	108	80	51	500	369	91	893	658
12	118	87	52	510	376	92	903	666
13	128	94	53	520	383	93	912	673
14	137	101	54	530	391	94	922	680
15	147	109	55	540	398	95	932	687
16	157	116	56	549	405	96	942	695
17	167	123	57	559	412	97	952	702
18	177	130	58	569	420	98	961	709
19	186	137	59	579	427	99	971	716
20	196	145	60	589	434	100	981	724
21	206	152	61	598	441	101	991	731
22	216	159	62	608	449	102	1001	738
23	226	166	63	618	456	103	1010	745
24	235	174	64	628	463	104	1020	753
25	245	181	65	638	470	105	1030	760
26	255	188	66	647	478	106	1040	767
27	265	195	67	657	485	107	1050	774
28	275	203	68	667	492	108	1059	781
29	284	210	69	677	499	109	1069	789
30	294	217	70	687	506	110	1079	796
31	304	224	71	697	514	111	1089	803
32	314	232	72	706	521	112	1099	810
33	324	239	73	716	528	113	1109	818
34	334	246	74	726	535	114	1118	825
35	343	253	75	736	543	115	1128	832
36	353	260	76	746	550	116	1138	839
37	363	268	77	755	557	117	1148	847
38	373	275	78	765	564	118	1158	854
39	383	282	79	775	572	119	1167	861
120	1177	868	160	1570	1158	200	1962	1447



## Conversion table between kpm, Nm and ft.-lbs.

kpm	Nm	ft.-lbs	kpm	Nm	ft.-lbs	kpm	Nm	ft.-lbs
121	1187	876	161	1579	1165	201	1972	1454
122	1197	883	162	1589	1172	202	1982	1462
123	1207	890	163	1599	1179	203	1991	1469
124	1216	897	164	1609	1187	204	2001	1476
125	1226	904	165	1619	1194	205	2011	1483
126	1236	912	166	1628	1201	206	2021	1491
127	1246	919	167	1638	1208	207	2031	1498
128	1256	926	168	1648	1216	208	2040	1505
129	1265	933	169	1658	1223	209	2050	1512
130	1275	941	170	1668	1230	210	2060	1519
131	1285	948	171	1678	1237	211	2070	1527
132	1295	955	172	1687	1245	212	2080	1534
133	1305	962	173	1697	1252	213	2090	1541
134	1315	970	174	1707	1259	214	2099	1548
135	1324	977	175	1717	1266	215	2109	1556
136	1334	984	176	1727	1273	216	2119	1563
137	1344	991	177	1736	1281	217	2129	1570
138	1354	999	178	1746	1288	218	2139	1577
139	1364	1006	179	1756	1295	219	2148	1585
140	1373	1013	180	1766	1302	220	2158	1592
141	1383	1020	181	1776	1310	221	2168	1599
142	1393	1027	182	1785	1317	222	2178	1606
143	1403	1035	183	1795	1324	223	2188	1614
144	1413	1042	184	1805	1331	224	2197	1621
145	1422	1049	185	1815	1339	225	2207	1628
146	1432	1056	186	1825	1346	226	2217	1635
147	1442	1064	187	1834	1353	227	2227	1642
148	1452	1071	188	1844	1360	228	2237	1650
149	1462	1078	189	1854	1368	229	2246	1657
150	1472	1085	190	1864	1375	230	2256	1664
151	1481	1093	191	1874	1382	231	2266	1671
152	1491	1100	192	1884	1389	232	2276	1679
153	1501	1107	193	1893	1396	233	2286	1686
154	1511	1114	194	1903	1404	234	2296	1693
155	1521	1122	195	1913	1411	235	2305	1700
156	1530	1129	196	1923	1418	236	2315	1708
157	1540	1136	197	1933	1425	237	2325	1715
158	1550	1143	198	1942	1433	238	2335	1722
159	1560	1150	199	1952	1440	239	2345	1729

## 2. Wrench openings (in mm).

	Hexagon bolts. Nuts.	Hex. socket head cap screw.	Hex. socket countersunk head screw.	Headless screw.	HV-bolts.
M3	5.5	2.5	2	1.5	
M4	7	3	2.5	2	
M5	8	4	3	2.5	
M6	10	5	4	3	
M8	13	6	5	4	
M10	17 (16)	8	6	5	
M12	19 (18)	10	8	6	22
M14	22 (21)		10		
M16	24	14	10	8	27
M18	27		12		
M20	30	17	12	10	32
M22	32 (34)	17	14		36
M24	36	19	14	12	41
M27	41	19			46
M30	46	22			50
M33	50	24			
M36	55	27			60
M39	60				
M42	65				
M45	70				

---

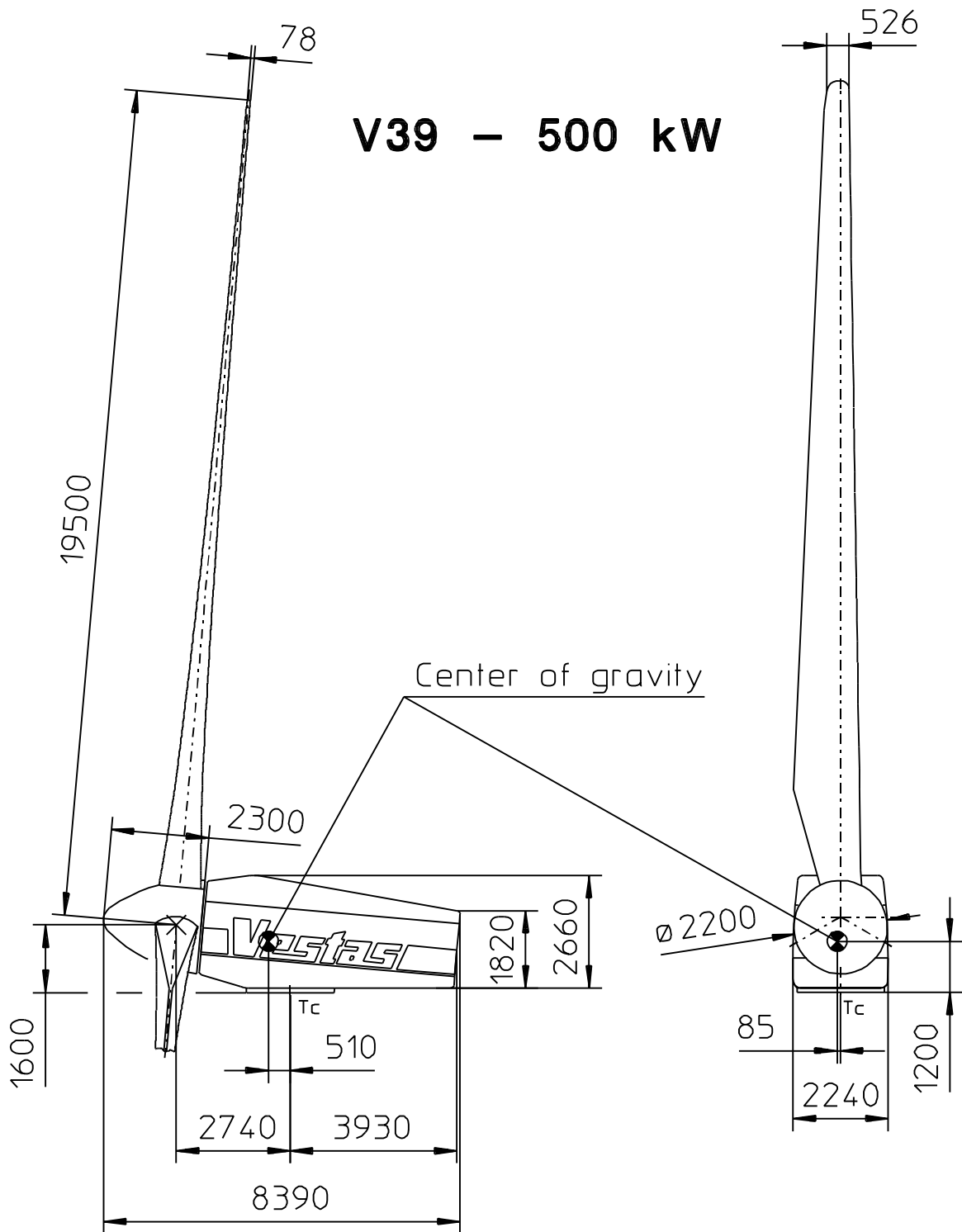
### 3. Conversion table between Celsius and Farnheit grades.

°C	°F	°C	°F	°C	°F	°C	°F
-40	-40.0	11	51.8	61	141.8	111	231.8
-39	-38.2	12	53.6	62	143.6	112	233.6
-38	-36.4	13	55.4	63	145.4	113	235.4
-37	-34.6	14	57.2	64	147.2	114	237.2
-36	-32.8	15	59.0	65	149.0	115	239.0
-35	-31.0	16	60.8	66	150.8	116	240.8
-34	-29.2	17	62.6	67	152.6	117	242.6
-33	-27.4	18	64.4	68	154.4	118	244.4
-32	-25.6	19	66.2	69	156.2	119	246.2
-31	-23.8	20	68.0	70	158.0	120	248.0
-30	-22.0	21	69.8	71	159.8	121	249.8
-29	-20.2	22	71.6	72	161.6	122	251.6
-28	-18.4	23	73.4	73	163.4	123	253.4
-27	-16.6	24	75.2	74	165.2	124	255.2
-26	-14.8	25	77.0	75	167.0	125	257.0
-25	-13.0	26	78.8	76	168.8	126	258.8
-24	-11.2	27	80.6	77	170.6	127	260.6
-23	-9.4	28	82.4	78	172.4	128	262.4
-22	-7.6	29	84.2	79	174.2	129	264.2
-21	-5.8	30	86.0	80	176.0	130	266.0
-20	-4.0	31	87.8	81	177.8	131	267.8
-19	-2.2	32	89.6	82	179.6	132	269.6
-18	-0.4	33	91.4	83	181.4	133	271.4
-17	1.4	34	93.2	84	183.2	134	273.2
-16	3.2	35	95.0	85	185.0	135	275.0
-15	5.0	36	96.8	86	186.8	136	276.8
-14	6.8	37	98.6	87	188.6	137	278.6
-13	8.6	38	100.4	88	190.4	138	280.4
-12	10.4	39	102.2	89	192.2	139	282.2
-11	12.2	40	104.0	90	194.0	140	284.0
-10	14.0	41	105.8	91	195.8	141	285.8
-9	15.8	42	107.6	92	197.6	142	287.6
-8	17.6	43	109.4	93	199.4	143	289.4
-7	19.4	44	111.2	94	201.2	144	291.2
-6	21.2	45	113.0	95	203.0	145	293.0
-5	23.0	46	114.8	96	204.8	146	294.8
-4	24.8	47	116.6	97	206.6	147	296.6
-3	26.6	48	118.4	98	208.4	148	298.4
-2	28.4	49	120.2	99	210.2	149	300.2
-1	30.2	50	122.0	100	212.0	150	302.0
0	32.0	51	123.8	101	213.8	151	303.8
1	33.8	52	125.6	102	215.6	152	305.6
2	35.6	53	127.4	103	217.4	153	307.4
3	37.4	54	129.2	104	219.2	154	309.2
4	39.2	55	131.0	105	221.0	155	311.0
5	41.0	56	132.8	106	222.8	156	312.8
6	42.8	57	134.6	107	224.6	157	314.6
7	44.6	58	136.4	108	226.4	158	316.4
8	46.4	59	138.2	109	228.2	159	318.2
9	48.2	60	140.0	110	230.0	160	320.0
10	50.0	61	141.8	111	231.8	161	321.8

#### 4. Conversion table between m/s and mph

m/s	mph	mph	m/s	mph	m/s
0.5	1.1	1	0.4	51	22.8
1.0	2.2	2	0.9	52	23.2
1.5	3.4	3	1.3	53	23.7
2.0	4.5	4	1.8	54	24.1
2.5	5.6	5	2.2	55	24.6
3.0	6.7	6	2.7	56	25.0
3.5	7.8	7	3.1	57	25.5
4.0	8.9	8	3.6	58	25.9
4.5	10.1	9	4.0	59	26.4
5.0	11.2	10	4.5	60	26.8
5.5	12.3	11	4.9		
6.0	13.4	12	5.4		
6.5	14.5	13	5.8		
7.0	15.7	14	6.3		
7.5	16.8	15	6.7		
8.0	17.9	16	7.2		
8.5	19.0	17	7.6		
9.0	20.1	18	8.0		
9.5	21.3	19	8.5		
10.0	22.4	20	8.9		
10.5	23.5	21	9.4		
11.0	24.6	22	9.8		
11.5	25.7	23	10.3		
12.0	26.8	24	10.7		
12.5	28.0	25	11.2		
13.0	29.1	26	11.6		
13.5	30.2	27	12.1		
14.0	31.3	28	12.5		
14.5	32.4	29	13.0		
15.0	33.6	30	13.4		
15.5	34.7	31	13.9		
16.0	35.8	32	14.3		
16.5	36.9	33	14.8		
17.0	38.0	34	15.2		
17.5	39.1	35	15.6		
18.0	40.3	36	16.1		
18.5	41.4	37	16.5		
19.0	42.5	38	17.0		
19.5	43.6	39	17.4		
20.0	44.7	40	17.9		
20.5	45.9	41	18.3		
21.0	47.0	42	18.8		
21.5	48.1	43	19.2		
22.0	49.2	44	19.7		
22.5	50.3	45	20.1		
23.0	51.5	46	20.6		
23.5	52.6	47	21.0		
24.0	53.7	48	21.5		
24.5	54.8	49	21.9		
25.0	55.9	50	22.4		

## 5. V39, measurement drawing.



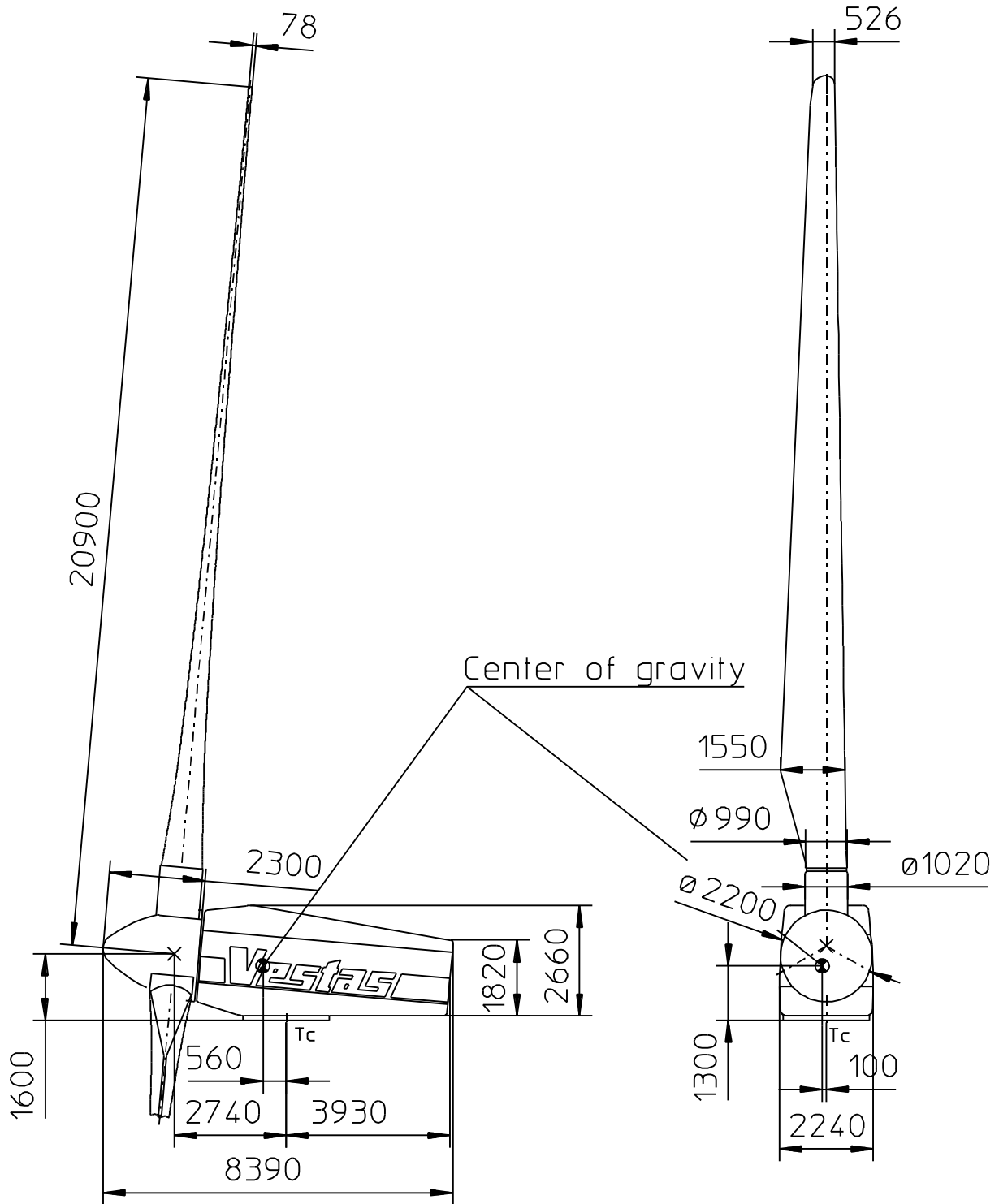
9. juli 1997

Draw. no 948782r3

The drawing shows overall dimension of nacelle cover and blade.

## 6. V42, measurement drawing.

# V42 - 600 kW



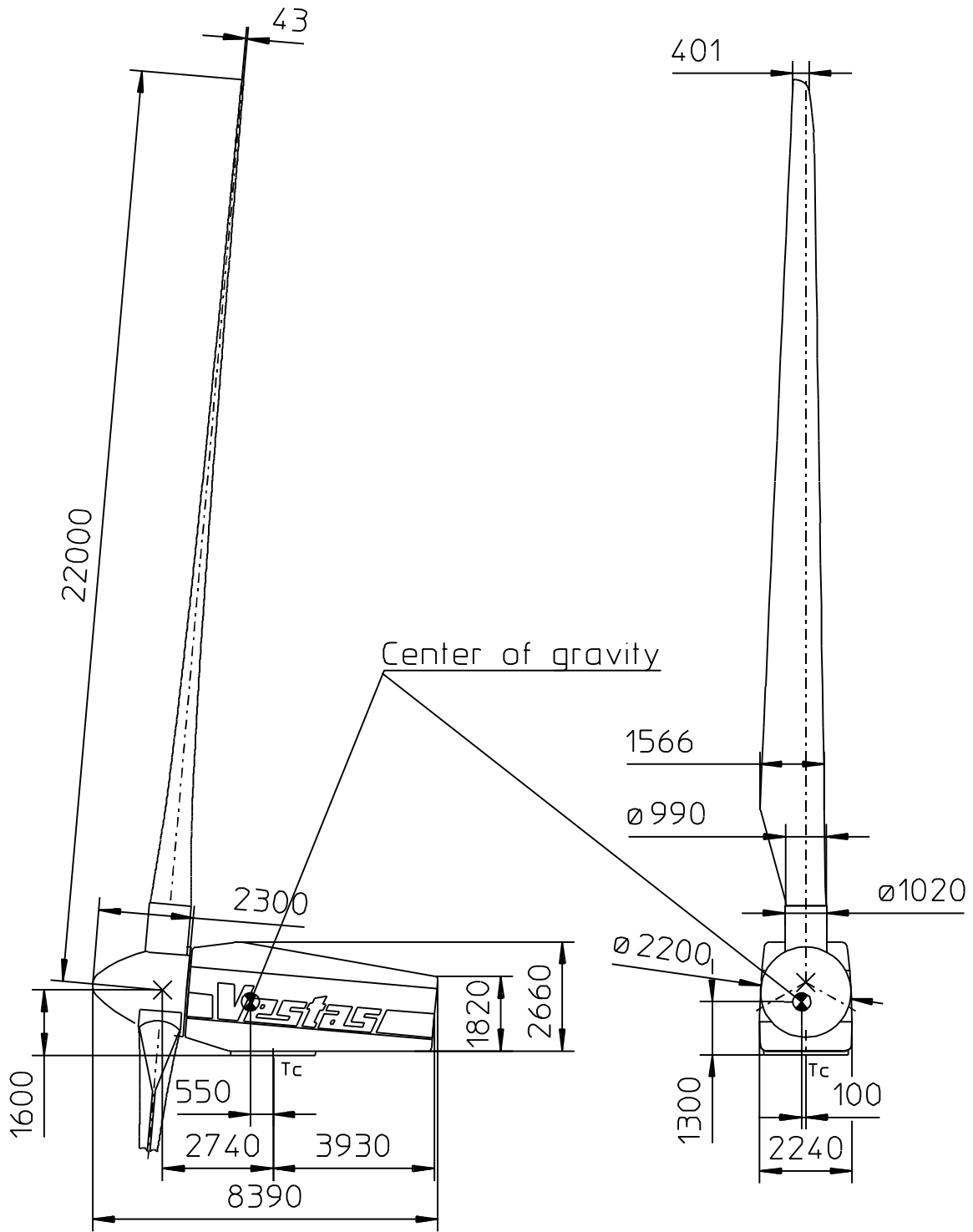
9. juli 1997

Draw. no 948862r5

The drawing shows overall dimension of nacelle cover and blade.

7. V44, measurement drawing.

# V44 – 600 kW



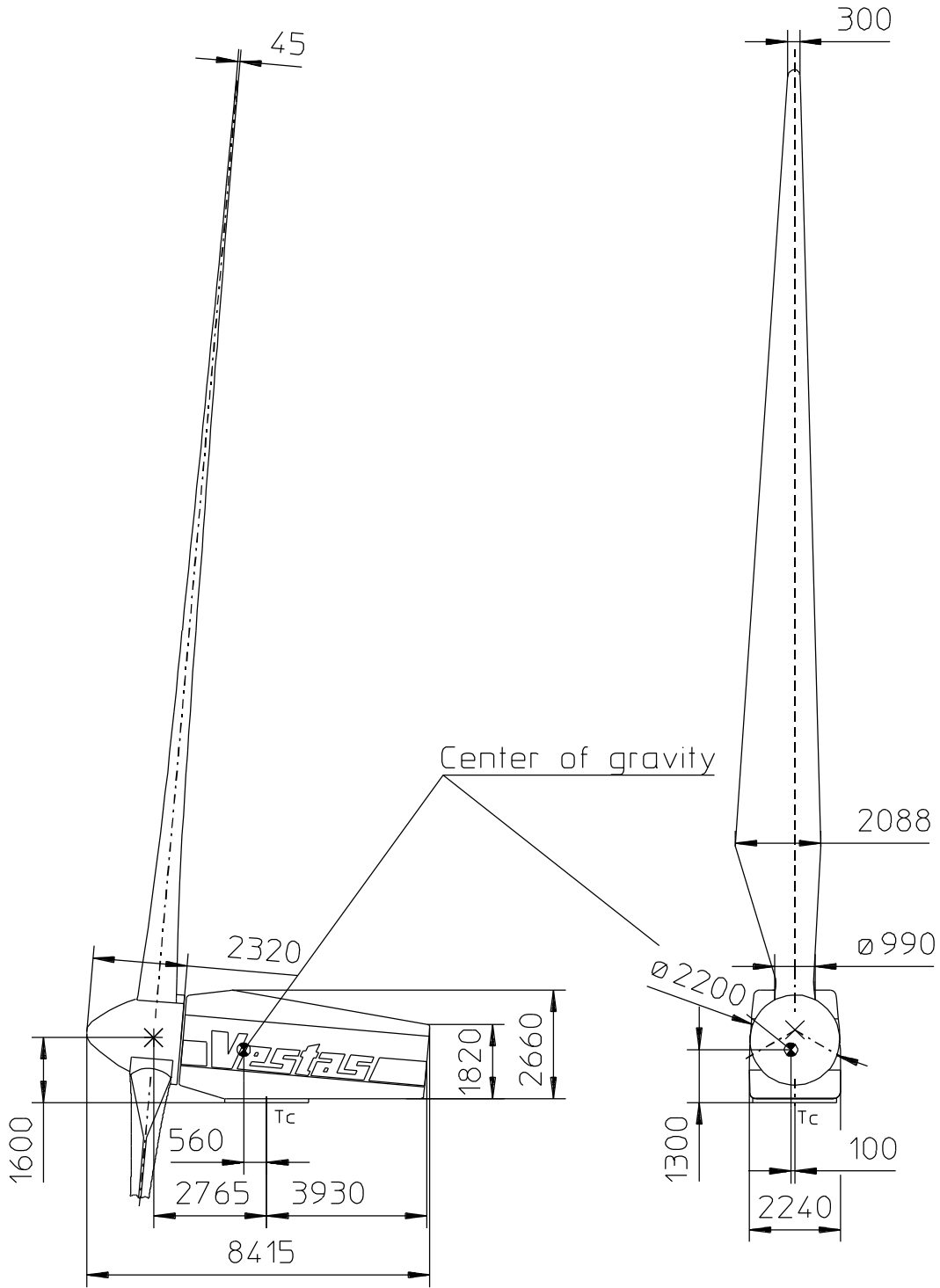
09. juli 1997

Draw. no 948887r4

The drawing shows overall dimension of nacelle cover and blade.

## 8. V47, measurement drawing.

### V47 - 660 kW



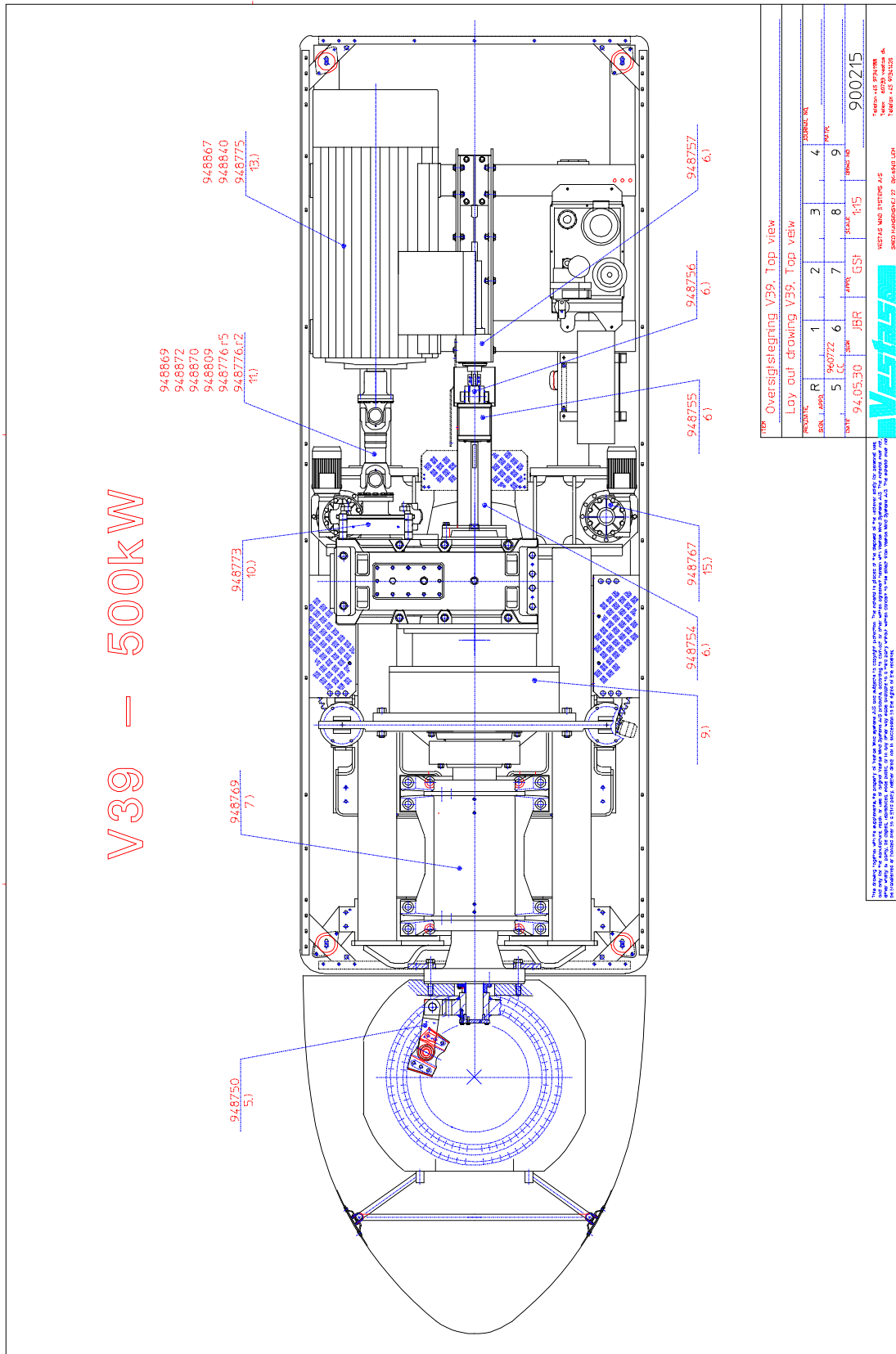
03. juli 1997

Draw. no. 948873r1

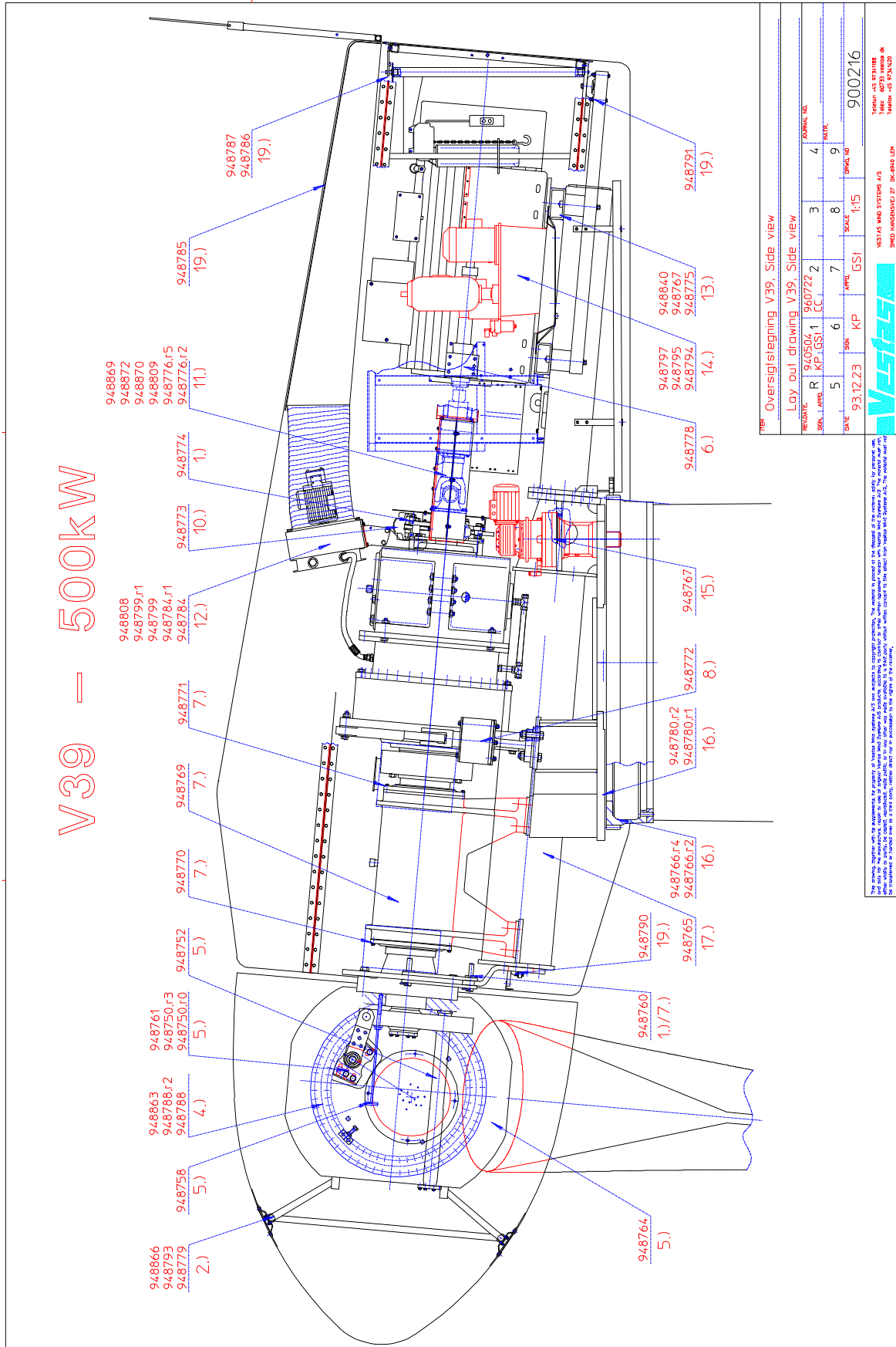
The drawing shows overall dimension of nacelle cover and blade.



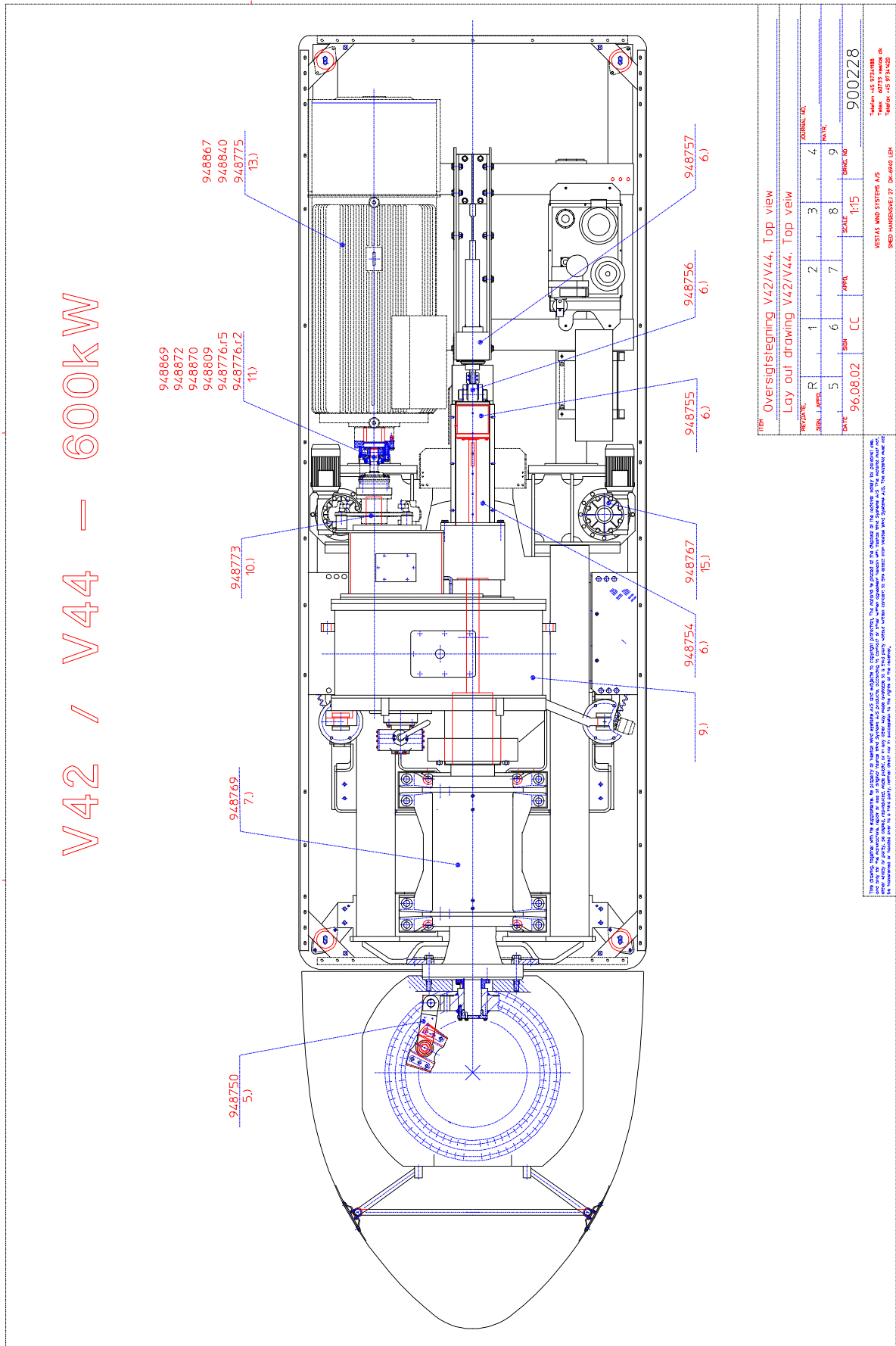
# 9. V39-500 kW, top view.



# 10. V39-500 kW, side view.



# 11. V42/V44-600 kW, top view.



Oversigtstegning V42/V44, Top view

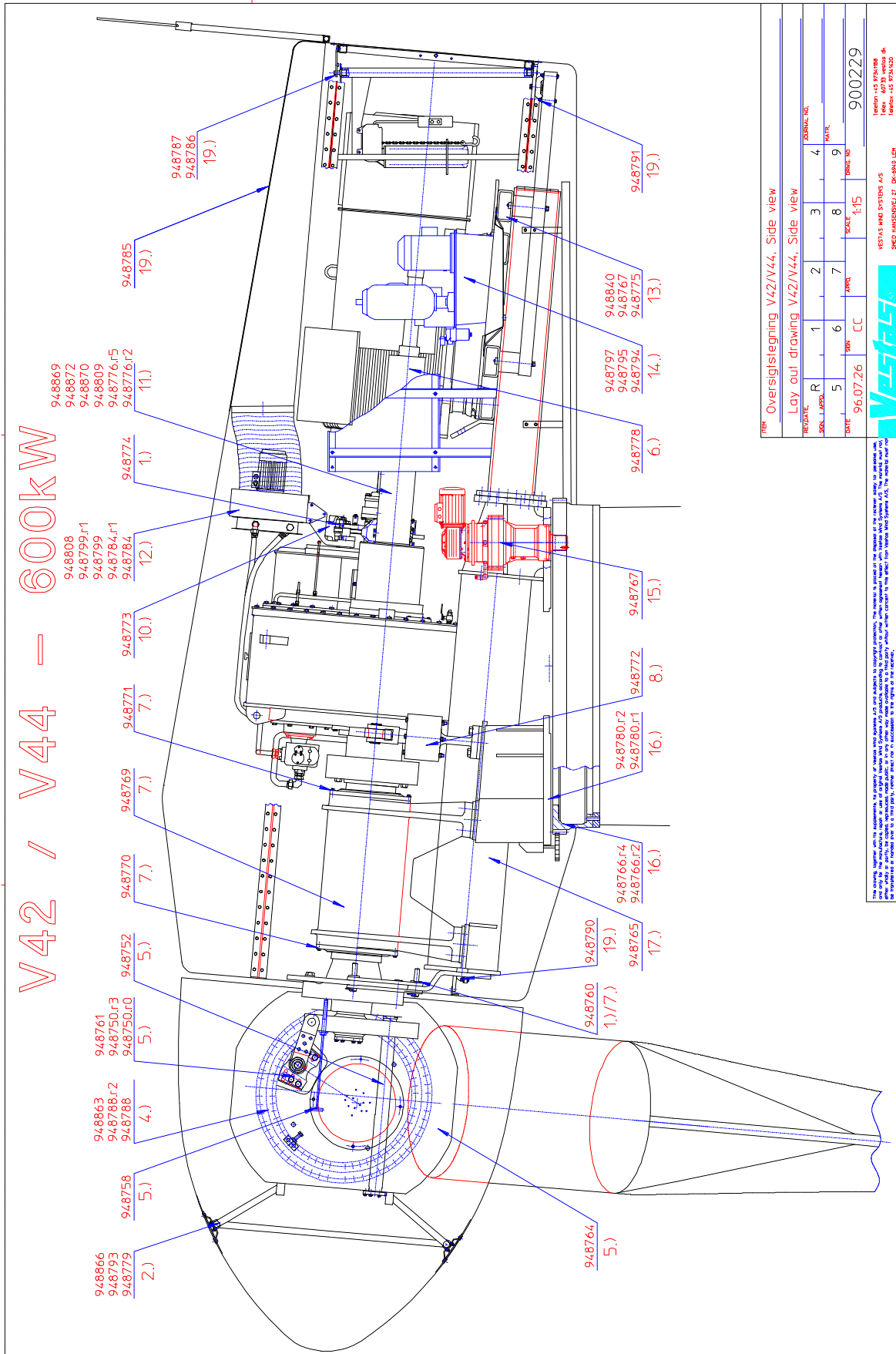
Lay out drawing V42/V44, Top view

REVIZIJE	R	1	2	3	4	DRUGAČIJE
SKL. I. PRIP.	5	6	7	8	9	DRUGAČIJE
DATUM	96.08.02	SKL.	CC	SKL.	1:15	DRUGAČIJE
						900228

VESTAS AND SYSTEMS A/S  
 ØRSTED HAVSØGELANDSVEJ 71, DK-4448 ØST  
 Telfon: +45 97311888  
 Telefax: +45 97311208

This drawing is prepared with the assistance of the software program VESTAS CAD. The software program is the property of VESTAS AND SYSTEMS A/S. The user is responsible for the correct use of the software program. The user is not allowed to copy, modify, or distribute the software program. The user is not allowed to use the software program for any other purpose than the intended use. The user is not allowed to use the software program for any other purpose than the intended use.

# 12. V42/V44-600 kW, side view.



TIPS: Oversigtstegning V42/V44, Side view

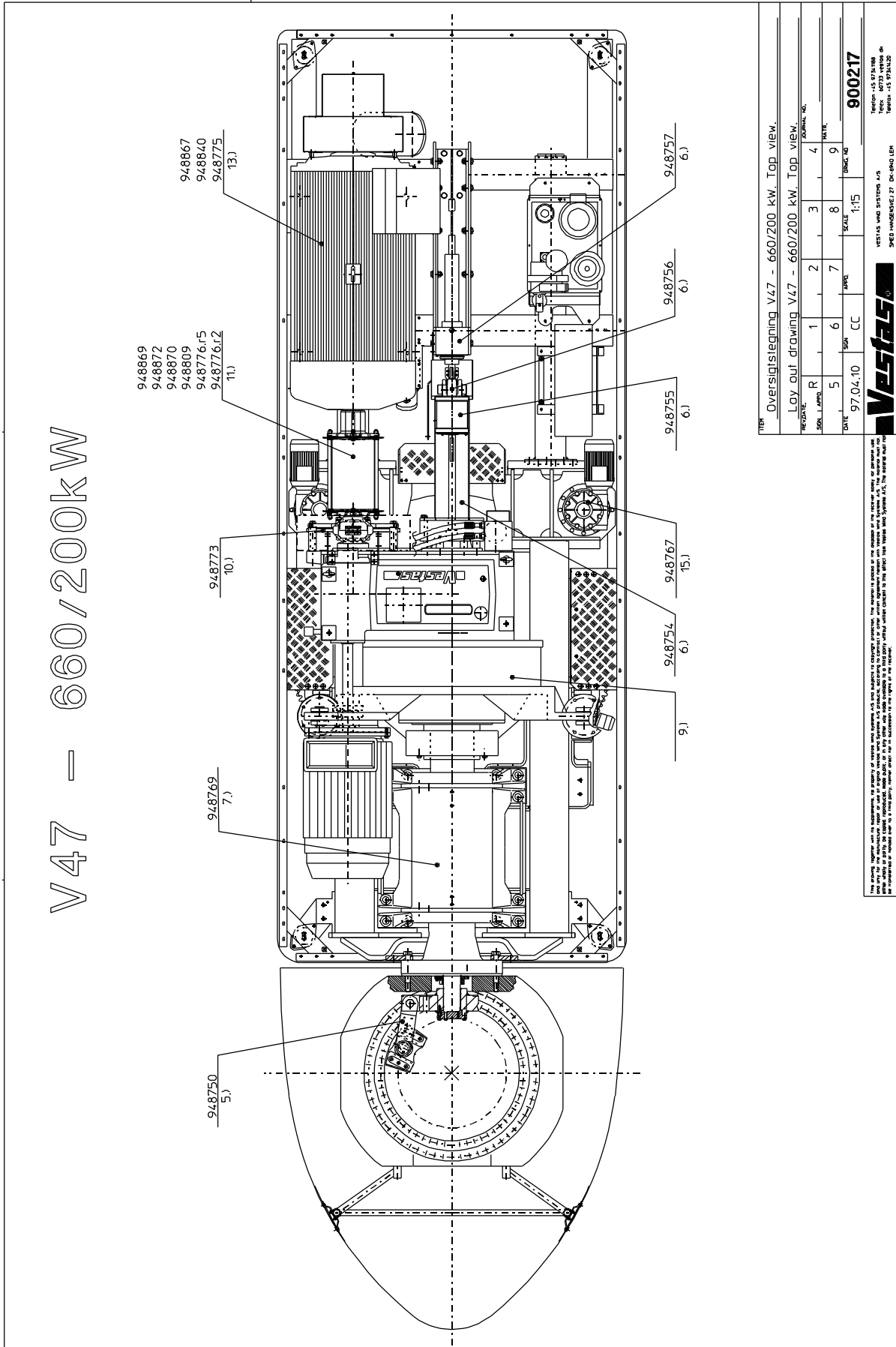
Lay out drawing V42/V44, Side view

REV/DRAWN	1	2	3	4
NO. / APPR.	R			
DATE	5	6	7	8
SCALE	CC			9
NO.				900229

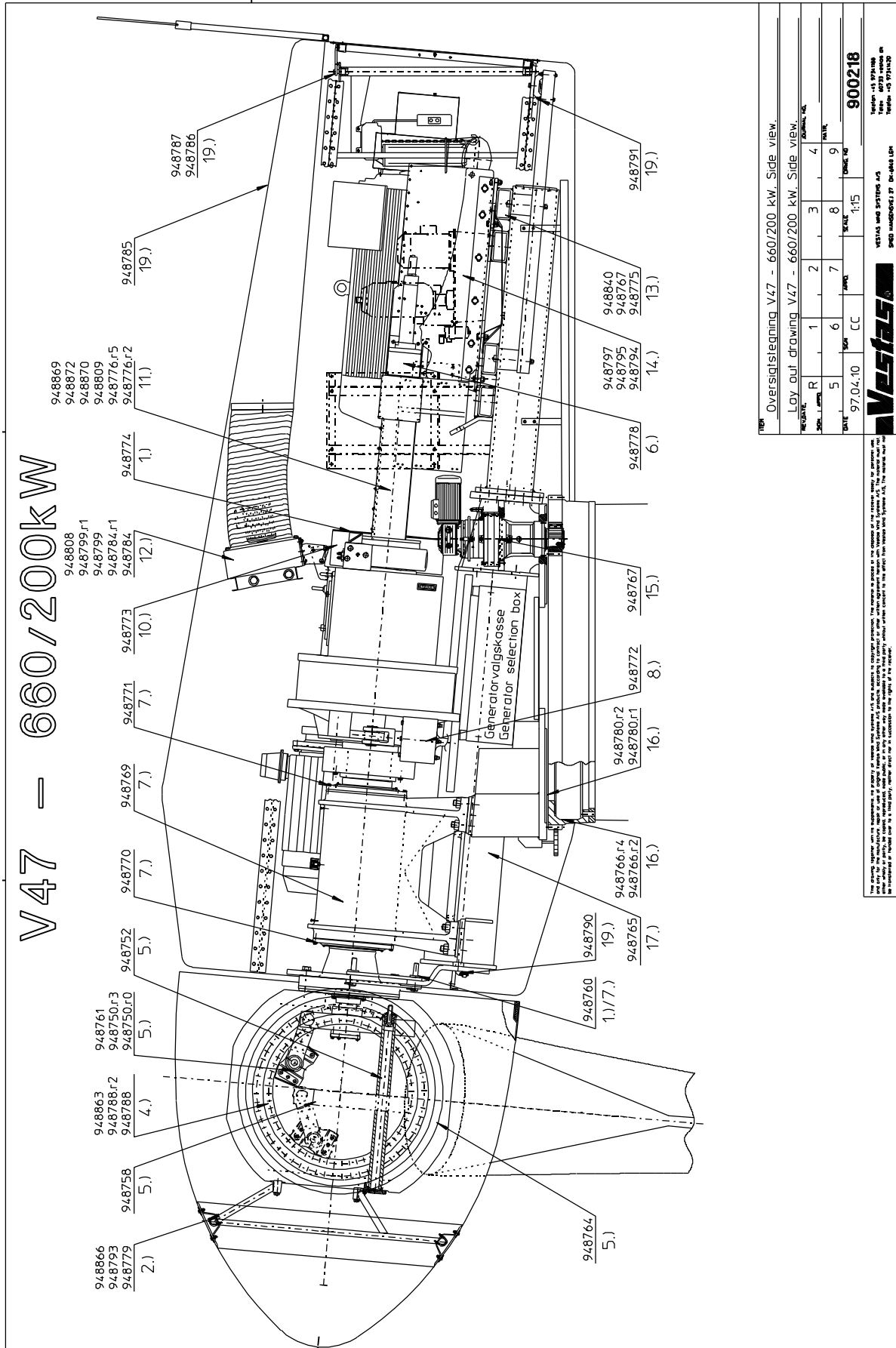
 Telenor +45 9747186  
 Vestas +45 9747186  
 Fax: +45 9747186  
 E-mail: +45 9747186


This drawing, together with its appendices, is the property of Vestas Wind Systems A/S and shall not be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Vestas Wind Systems A/S. The copyright in this drawing is reserved by Vestas Wind Systems A/S. Vestas Wind Systems A/S is not responsible for any damage or loss of data, or for any delay in the supply of goods or services, or for any other consequences, arising from the use of this drawing. Vestas Wind Systems A/S is not responsible for any damage or loss of data, or for any delay in the supply of goods or services, or for any other consequences, arising from the use of this drawing.

# 13. V47-660/200 kW, top view.



# 14. V47-660/200 kW, side view.



TITEL Oversigtstegning V47 - 660/200 kW, Side view.  
Lay out drawing V47 - 660/200 kW, Side view.

NO. I. R.	1	2	3	4
REVISION				
DATE	5	6	7	8
SCALE	1:15			
UNIT	97.04.10	CC		
DRWG. NO.	900218			

Version: 15 9/21/00  
 Vestas Wind Systems A/S  
 6900 Hadsundvej 27, DK-8600 LØN

**Vestas**

The drawing depicts a technical drawing of a Vestas wind turbine. It is a side view of the generator assembly. The drawing is a technical drawing of a Vestas wind turbine. It is a side view of the generator assembly. The drawing is a technical drawing of a Vestas wind turbine. It is a side view of the generator assembly.