



Cylindrical Roller Bearings (Full Complement Type):

Double Row Cylindrical Roller Bearings are for high radial loads. Application which require very high load and very high rigidity & which do not require much speeds compared to those with cage type. SL1850** (Semi-Locating), SL0148**/SL0149** (Locating), SL0248**/SL0249** (Non-Locating).

Suffix and Corresponding Description For Double Row Cylindrical Roller Bearings	
Suffix	Description of Suffix
A	Internal Design
C1	Radial Internal Clearance C1 (Clearance lesser than C2)
C2	Radial Internal Clearance C2 (Clearance lesser than CN)
No Symbol	(CN) Normal Internal Clearance
C3	Radial Internal Clearance C3 (Clearance Larger than Normal)
C4	Radial Internal Clearance C4 (Clearance Larger than C3)

Locating Bearings:

Locating Bearings can support radial and axial loads in both directions.

Non-Locating Bearings:

Non-Locating Bearings can support only radial loads.

Semi-Locating Bearings:

Semi-Locating Bearings can support radial loads as well as limited axial loads in one direction by means of a rib. These Bearings operate in the opposing direction as Non-Locating Bearings and the axial displacement should be taken into consideration in these cases. The Bearing Unit is secured by a snap ring in the outer ring.

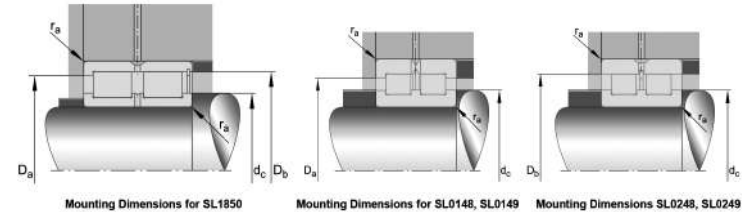
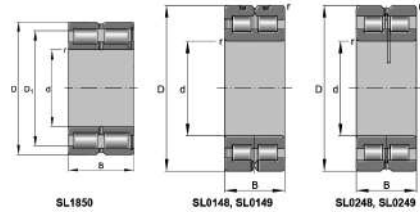
Rope Sheaves Bearings:

Rope sheave bearings are locating bearings having snap ring both sides.

Double Row Cylindrical Roller Bearings (Full Complement)



Double Row Cylindrical Roller Bearings (Full Complement)

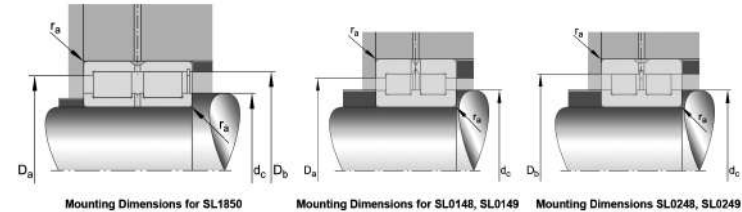
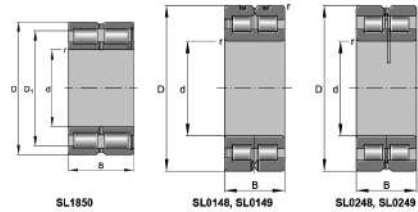


Boundary Dimensions				Basic Load Rating		Limiting speed (rpm)	Bearing Designation	Abutment and Fillet Dimensions				Mass Approx (kg)
(mm)				(KN)				(mm)				
d	D	B	r (min)	C _r	C _{or}	d _c (min)	D _a (max)	D _b (max)	r _a (max)			
20	42	30	0.6	53.00	52.00	28	33.5	36.5	0.6			
25	47	30	0.6	60.00	64.00	34.5	39	42.5	0.6			
30	55	34	1	78.00	84.00	40	45.5	49.5	1			
35	62	36	1	94.00	107.00	44.5	51.5	55.5	1			
40	68	38	1	113.00	133.00	50.5	57.5	61.5	1			
45	75	40	1	120.00	148.00	55	63	66.5	1			
50	80	40	1	151.00	188.00	59	68	72	1			
55	90	46	1.1	206.00	275.00	68.5	79	83.5	1.1			
60	85	25	1	70.00	121.00	70	73.5	-	1			
60	85	25	1	70.00	121.00	70.5	-	77.5	1			
60	95	46	1.1	212.00	285.00	71.5	82	86.5	1.1			
65	100	46	1.1	223.00	315.00	78	88.5	93	1.1			
70	100	30	1	106.00	185.00	82.5	87.5	-	1			
70	100	30	1	106.00	185.00	82.5	-	91.5	1			
70	110	54	1.1	265.00	350.00	81.5	96	100	1.1			
75	115	54	1.1	275.00	385.00	89	103	107.5	1.1			
80	110	30	1	112.00	206.00	91	96.5	-	1			
80	110	30	1	112.00	206.00	91.5	-	100.5	1			
80	125	60	1.1	330.00	440.00	95	112	117	1.1			
85	130	60	1.1	300.00	465.00	99	116.5	121.5	1.1			
90	125	35	1.1	153.00	290.00	103.5	111	-	1.1			
90	125	35	1.1	153.00	290.00	103	-	115	1.1			
90	140	67	1.5	350.00	550.00	106	124.5	130.5	1.5			
100	140	40	1.1	191.00	370.00	116	125	-	1.1			
100	140	40	1.1	191.00	370.00	116.5	-	129.5	1.1			
100	150	67	1.5	370.00	600.00	115.5	134	140	1.5			
110	150	40	1.1	198.00	400.00	125	134	-	1.1			
110	150	40	1.1	198.00	400.00	125	-	138	1.1			
110	170	80	2	485.00	770.00	127	149.5	156.5	2			
120	165	45	1.1	222.00	440.00	138.5	149	-	1.1			

Double Row Cylindrical Roller Bearings (Full Complement)



Double Row Cylindrical Roller Bearings (Full Complement)

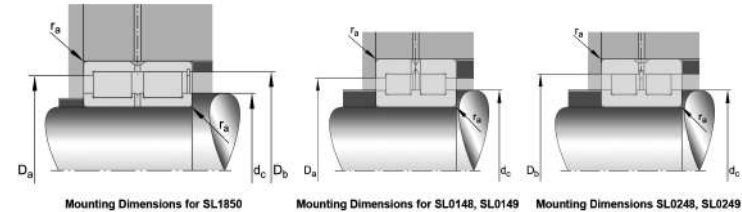
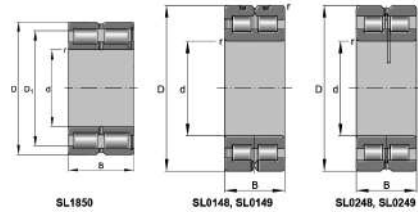


Boundary Dimensions				Basic Load Rating		Limiting speed (rpm)	Bearing Designation	Abutment and Fillet Dimensions				Mass Approx (kg)
(mm)				(KN)				(mm)				
d	D	B	r (min)	C _r	C _{or}		d _c (min)	D _a (max)	D _b (max)	r _a (max)		
120	165	45	1.1	222.00	440.00	2260	SL024924	139	-	153.5	1.1	2.85
120	180	80	2	510.00	850.00	2160	SL185024	138.5	161	168	2	6.77
130	180	50	1.5	260.00	510.00	2090	SL014926	148	160	-	1.5	3.95
130	180	50	1.5	260.00	510.00	2090	SL024926	149.5	-	165	1.5	3.8
130	200	95	2	730.00	1210.00	1990	SL185026	148.5	175.5	184	2	10.2
140	190	50	1.5	270.00	550.00	1950	SL014928	159	170.5	-	1.5	4.2
140	190	50	1.5	270.00	550.00	1950	SL024928	160	-	175.5	1.5	4.1
140	210	95	2	770.00	1330.00	1820	SL185028	162.5	189.5	198	2	11.1
150	190	40	1.1	231.00	530.00	1900	SL014830	165	174.5	-	1.1	2.9
150	190	40	1.1	231.00	530.00	1900	SL024830	165.5	-	178	1.1	2.8
150	210	60	2	410.00	820.00	1790	SL014930	171.5	187.5	-	2	6.65
150	210	60	2	410.00	820.00	1790	SL024930	172	-	192.5	2	6.45
150	225	100	2	810.00	1390.00	1740	SL185030	170	198	207	2	13.3
160	200	40	1.1	237.00	560.00	1800	SL014832	173.5	183	-	1.1	3.1
160	200	40	1.1	237.00	560.00	1800	SL024832	174	-	186.5	1.1	3
160	220	60	2	425.00	880.00	1660	SL014932	184	200.5	-	2	7
160	220	60	2	425.00	880.00	1660	SL024932	184.5	-	206	2	6.8
160	240	109	2.1	930.00	1610.00	1600	SL185032	184.5	216	224.5	2.1	12.2
170	215	45	1.1	260.00	600.00	1670	SL014834	186	197	-	1.1	4.1
170	215	45	1.1	260.00	600.00	1670	SL024834	186.5	-	201	1.1	3.95
170	230	60	2	435.00	930.00	1580	SL014934	193	209.5	-	2	7.35
170	230	60	2	435.00	930.00	1580	SL024934	193.5	-	215	2	7.1
170	260	122	2.1	1200.00	2110.00	1480	SL185034	198	233	242.5	2.1	22.5
180	225	45	1.1	270.00	640.00	1560	SL014836	199	210	-	1.1	4.3
180	225	45	1.1	270.00	640.00	1560	SL024836	199.5	-	214	1.1	4.15
180	250	69	2	570.00	1200.00	1480	SL014936	204.5	224.5	-	2	10.8
180	250	69	2	570.00	1200.00	1480	SL024936	205	-	230.5	2	10.5
180	280	136	2.1	1390.00	2480.00	1370	SL185036	212	249.5	260	2.1	29.9
190	240	50	1.5	310.00	730.00	1480	SL014838	207.5	221	-	1.5	5.65
190	240	50	1.5	310.00	730.00	1480	SL024838	208	-	225	1.5	5.45

Double Row Cylindrical Roller Bearings (Full Complement)



Double Row Cylindrical Roller Bearings (Full Complement)

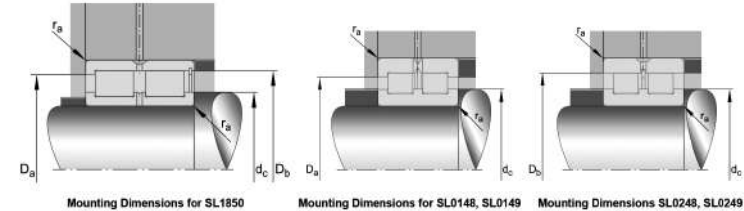
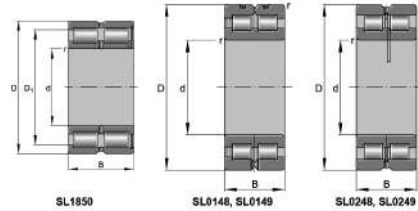


Boundary Dimensions				Basic Load Rating		Limiting speed (rpm)	Bearing Designation	Abutment and Fillet Dimensions				Mass Approx (kg)
(mm)				(KN)				(mm)				
d	D	B	r (min)	C _r	C _{or}		d _c (min)	D _a (max)	D _b (max)	r _a (max)		
190	260	69	2	580.00	1270.00	1410	SL014938	215	234.5	-	2	11.2
190	260	69	2	580.00	1270.00	1410	SL024938	215	-	240.5	2	10.9
190	290	136	2.1	1430.00	2600.00	1320	SL185038	221.5	259	269.5	2.1	31.3
200	250	50	1.5	320.00	770.00	1410	SL014840	218	231.5	-	1.5	5.9
200	250	50	1.5	320.00	770.00	1410	SL024840	218.5	-	235.5	1.5	5.7
200	280	80	2.1	680.00	1440.00	1310	SL014940	230.5	252.5	-	2.1	15.8
200	280	80	2.1	680.00	11440.00	1310	SL024940	230.5	-	259	2.1	15.3
200	310	150	2.1	1630.00	3000.00	1230	SL185040	236.5	276.5	287.5	2.1	40.4
220	270	50	1.5	335.00	840.00	1290	SL014844	239	252.5	-	1.5	6.4
220	270	50	1.5	335.00	840.00	1290	SL024844	239.5	-	256.5	1.5	6.2
220	300	80	2.1	700.00	1550.00	1220	SL014944	248	268.5	-	2.1	17.2
220	300	80	2.1	700.00	1550.00	1220	SL024944	248	-	276.5	2.1	16.7
220	340	160	3	1980.00	3650.00	1140	SL185044	254.5	298	312	3	51.6
240	300	60	2	510.00	1260.00	1170	SL014848	259.5	277	-	2	10
240	300	60	2	510.00	1260.00	1170	SL024848	259.5	-	281.5	2	9.9
240	320	80	2.1	740.00	1700.00	1110	SL014948	270.5	292.5	-	2.1	18.5
240	320	80	2.1	740.00	1700.00	1110	SL024948	271	-	299	2.1	17.9
240	360	160	3	2080.00	4000.00	1040	SL185048	277.5	322.5	335	3	55.2
260	320	60	2	540.00	1370.00	1080	SL014852	281.5	299	-	2	11
260	320	60	2	540.00	1370.00	1080	SL024852	282	-	304	2	10.6
260	360	100	2.1	1100.00	2470.00	1010	SL014952	294.5	322.5	-	2.1	32
260	360	100	2.1	1100.00	2470.00	1010	SL024952	294.5	-	331	2.1	31.2
260	400	190	4	2750.00	5000.00	940	SL185052	304	360	375.5	4	82.6
280	350	69	2	700.00	1820.00	980	SL014856	306.5	326.5	-	2	16
280	350	69	2	700.00	1820.00	980	SL024856	307	-	332	2	15.6
280	380	100	2.1	1150.00	2650.00	940	SL014956	316.5	345	-	2.1	34
280	380	100	2.1	1150.00	2650.00	940	SL024956	316.5	-	353	2.1	33.1
280	420	190	4	2850.00	5300.00	900	SL185056	318	374.5	390	4	88
300	380	80	2.1	820.00	2070.00	920	SL014860	327.5	350	-	2.1	23
300	380	80	2.1	820.00	2070.00	920	SL024860	328	-	356.5	2.1	22

Double Row Cylindrical Roller Bearings (Full Complement)



Double Row Cylindrical Roller Bearings (Full Complement)



Boundary Dimensions				Basic Load Rating		Limiting speed (rpm)
(mm)				(KN)		
d	D	B	r (min)	C _r	C _{or}	
300	420	118	3	1630.00	3700.00	870
300	420	118	3	1630.00	3700.00	870
300	460	218	4	3450.00	6600.00	800
320	400	80	2.1	850.00	2220.00	860
320	400	80	2.1	850.00	2220.00	860
320	440	118	3	1700.00	4050.00	800
320	440	118	3	1700.00	4050.00	800
320	480	218	4	3550.00	6900.00	770
340	420	80	2.1	870.00	2330.00	810
340	420	80	2.1	870.00	2330.00	810
340	460	118	3	1750.00	4250.00	770
340	460	118	3	1750.00	4250.00	770
340	520	243	5	4250.00	8300.00	710
360	440	80	2.1	900.00	2480.00	770
360	440	80	2.1	900.00	2480.00	770
360	480	118	3	1790.00	4450.00	730
360	480	118	3	2020.00	4450.00	730
360	540	243	5	4400.00	8700.00	680
380	480	100	2.1	1320.00	3500.00	710
380	480	100	2.1	1320.00	3500.00	710
380	520	140	4	2250.00	5500.00	680
380	520	140	4	2250.00	5500.00	680
380	560	243	5	4450.00	8900.00	660
400	500	100	2.1	1350.00	3650.00	680
400	500	100	2.1	1350.00	3650.00	680
400	540	140	4	2310.00	5800.00	650
400	540	140	4	2310.00	5800.00	650

Bearing Designation	Abutment and Fillet Dimensions				Mass Approx (kg)
	(mm)				
	d _c (min)	D _a (max)	D _b (max)	r _a (max)	
SL014960	340.5	374.5	-	3	53
SL024960	341	-	385.5	3	51.9
SL185060	353.5	414	433.5	4	124
SL014864	350.5	373	-	2.1	24
SL024864	351	-	379.5	2.1	23.5
SL014964	367.5	401.5	-	3	56
SL024964	367.5	-	412	3	54.9
SL185064	369.5	431.5	449.5	4	128.4
SL014868	368	390.5	-	2.1	25.5
SL024868	368.5	-	396.5	2.1	25
SL014968	385	419	-	3	59
SL024968	385.5	-	430	3	57.8
SL185068	396	465.5	485.5	5	178
SL014872	391	413.5	-	2.1	27
SL024872	391	-	419.5	2.1	26
SL014972	404	437	-	3	62.1
SL024972	404	-	447.5	3	60.8
SL185072	413.5	481	503	5	178
SL014876	419	447.5	-	2.1	45.5
SL024876	419	-	455.5	2.1	44
SL014976	430	469	-	4	92.4
SL024976	430.5	-	481	4	90.5
SL185076	432	499	521	5	196.5
SL014880	433.5	462	-	2.1	46.5
SL024880	434	-	470.5	2.1	45.8
SL014980	450.5	489	-	4	96.5
SL024980	450.5	-	501.5	4	94.6



Cylindrical Roller Bearings (Full Complement Type):

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Suffix and Corresponding Description For Double Row Cylindrical Roller Bearings	
Suffix	Description of Suffix
PP	Seals on Both Sides
C1	Radial Internal Clearance C1 (Clearance lesser than C2)
C2	Radial Internal Clearance C2 (Clearance lesser than CN)
No Symbol	(CN) Normal Internal Clearance
C3	Radial Internal Clearance C3 (Clearance Larger than Normal)
C4	Radial Internal Clearance C4 (Clearance Larger than C3)

Locating Bearings:

Locating Bearings can support radial and axial loads in both directions.

Non-Locating Bearings:

Non-Locating Bearings can support only radial loads.

Semi-Locating Bearings:

Semi-Locating Bearings can support radial loads as well as limited axial loads in one direction by means of a rib. These Bearings operate in the opposing direction as Non-Locating Bearings and the axial displacement should be taken into consideration in these cases. The Bearing Unit is secured by a snap ring in the outer ring.

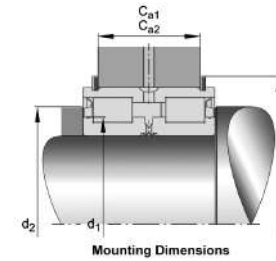
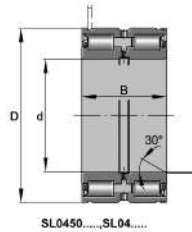
Rope Sheaves Bearings:

Rope sheave bearings are locating bearings having snap ring both sides.

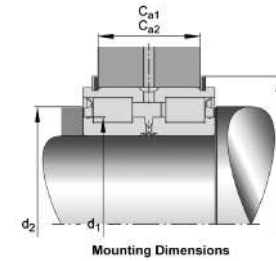
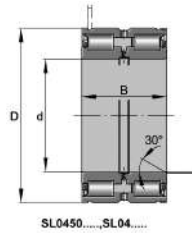
Double Row Cylindrical Roller Bearings (Full Complement)



Double Row Cylindrical Roller Bearings (Full Complement)



Boundary Dimensions				Basic Load Rating		Limiting speed	Bearing Designation	Snap Ring WRE	Abutment and Fillet Dimensions					Mass Approx
(mm)				(KN)		Grease			(mm)					(kg)
d	D	B	r (min)	C _r	C _{or}	(rpm)			C _{a1}	C _{a2}	d ₁ (max)	d ₂ (max)	d ₃ (max)	
20	42	30	0.3	41.50	51.00	5500	SL045004	WRE42	21.5	21	31	34	47	0.2
25	47	30	0.3	46.00	60.00	4700	SL045005	WRE47	21.5	21	35.5	39	52	0.24
30	55	34	0.3	50.00	67.00	4100	SL045006	WRE55	25	24	41	44	60	0.37
35	62	36	0.3	63.00	88.00	3550	SL045007	WRE62	27	26	46.5	50	67	0.48
40	68	38	0.6	80.00	111.00	3150	SL045008	WRE68	28	27	51.5	55	75	0.56
45	75	40	0.6	97.00	139.00	2800	SL045009	WRE75	30	29	57	61	82	0.7
50	80	40	0.6	102.00	151.00	2600	SL045010	WRE80	30	29	62	66	87	0.76
55	90	46	0.6	120.00	186.00	2340	SL045011	WRE90	35	34	69	73	99	1.18
60	95	46	0.6	125.00	201.00	2180	SL045012	WRE95	35	34	74	79	104	1.26
65	100	46	0.6	130.00	215.00	2040	SL045013	WRE100	35	34	79	84	109	1.33
70	110	54	0.6	175.00	275.00	1850	SL045014	WRE110	43	40	84.5	91	119	1.87
75	115	54	0.6	201.00	315.00	1740	SL045015	WRE115	43	40	90	97	124	1.96
80	125	60	0.6	210.00	340.00	1620	SL045016	WRE125	49	46	97.5	105	137	2.71
85	130	60	0.6	219.00	365.00	1510	SL045017	WRE130	49	46	104	112	142	2.83
90	140	67	0.6	305.00	510.00	1410	SL045018	WRE140	54	51	109.5	118	152	3.71
95	145	67	0.6	315.00	530.00	1360	SL045019	WRE145	54	51	113.5	122	157	3.88
100	150	67	0.6	330.00	550.00	1300	SL045020	WRE150	54	51	117.5	128	162	3.95
110	170	80	0.6	395.00	680.00	1170	SL045022	WRE170	65	62	132	143	182	6.57
120	180	80	0.6	410.00	740.00	1090	SL045024	WRE180	65	63	141	153	196	7.04
130	200	95	0.6	540.00	960.00	960	SL045026	WRE200	77	75	157	170	216	10.5
130	190	80	0.6	430.00	790.00	1020	SL04130	WRE190	65	63	151	160	206	7.5
140	210	95	0.6	610.00	1100.00	910	SL045028	WRE210	77	73	165.5	181	226	11.1
140	200	80	0.6	445.00	840.00	960	SL04140	WRE200	65	63	160	170	216	8
150	225	100	0.6	710.00	1260.00	850	SL045030	WRE225	81	77	176	192	245	13.3
150	210	80	0.6	465.00	920.00	880	SL04150	WRE210	65	61	174.5	185	226	8.4
160	240	109	0.6	740.00	1360.00	790	SL045032	WRE240	89	85	189	207	260	16.6
160	220	80	0.6	480.00	970.00	830	SL04160	WRE220	65	61	184.5	196	236	8.8
170	260	122	0.6	960.00	1750.00	740	SL045034	WRE260	99	97	201	220	282	22.6
170	230	80	0.6	490.00	1030.00	790	SL04170	WRE230	65	61	194	206	250	9.3
180	280	136	0.6	1140.00	2130.00	680	SL045036	WRE280	110	108	218	239	302	30.1



Boundary Dimensions				Basic Load Rating		Limiting speed	Bearing Designation	Snap Ring WRE	Abutment and Fillet Dimensions					Mass Approx
(mm)				(KN)		Grease			(mm)					(kg)
d	D	B	r (min)	C _r	C _{or}	(rpm)			C _{a1}	C _{a2}	d ₁ (max)	d ₂ (max)	d ₃ (max)	
180	240	80	0.6	500.00	1080.00	750	SL04180	WRE240	65	61	203.5	216	260	9.8
190	290	136	0.6	1160.00	2210.00	660	SL045038	WRE290	110	108	226	248	312	31.5
190	260	80	0.6	520.00	1160.00	700	SL04190	WRE260	65	63	218	231	282	12.7
200	310	150	0.6	1350.00	2600.00	610	SL045040	WRE310	120	116	243.5	267	336	40.8
200	270	80	0.6	540.00	1210.00	670	SL04200	WRE270	65	63	227.5	241	292	13.2
220	340	160	1	1570.00	3050.00	560	SL045044	WRE340	130	126	260	286	366	52.5
220	300	95	1	700.00	1550.00	610	SL04220	WRE300	75	73	249	264	322	19.5
240	360	160	1	1630.00	3300.00	530	SL045048	WRE360	130	126	279.5	305	386	56
240	320	95	1	740.00	1700.00	560	SL04240	WRE320	75	71	272	287	346	21
260	400	190	1.1	2380.00	4700.00	475	SL045052	WRE400	154	150	305	336	426	84.5
260	340	95	1	840.00	1990.00	520	SL04260	WRE340	75	71	293	310	366	22.5
280	420	190	1.1	2600.00	5200.00	450	SL045056	WRE420	154	149	321	354	453	90
280	360	95	1	870.00	2120.00	485	SL04280	WRE360	75	71	310.5	386	327	24
300	460	218	1.1	3000.00	5800.00	415	SL045060	WRE460	176	171	347	375	493	126
300	380	95	1	900.00	2250.00	455	SL04300	WRE380	75	71	328	346	406	25.5