

## Results for Homberger\_400 instances (CVRP)

Keld Helsgaun, May 8, 2018

Instance	BKS	LKH-3	LKH-3 d	Gap (%)
C1_4_1.400.40	7152.02	7152.040	7152.06	0.00
C1_4_2.400.36	7686.38	7687.398	7687.52	0.01
C1_4_3.400.36	7060.67	7065.610	7065.63	0.07
C1_4_4.400.36	6803.24	6803.126	6803.24	0.00
C1_4_5.400.40	7152.02	7152.040	7152.06	0.00
C1_4_6.400.40	7153.41	7153.438	7153.45	0.00
C1_4_7.400.39	7417.92	7417.903	7417.92	0.00
C1_4_8.400.37	7347.23	7365.186	7365.20	0.24
C1_4_9.400.36	7042.53	7068.486	7068.50	0.37
C1_4_10.400.36	6860.63	6863.581	6863.60	0.04
C2_4_1.400.12	4116.05	4116.127	4116.14	0.00
C2_4_2.400.12	3929.89	3930.038	3930.05	0.00
C2_4_3.400.11	4018.02	4027.134	4027.14	0.23
C2_4_4.400.11	3702.49	3707.034	3707.04	0.12
C2_4_5.400.12	3938.69	3938.683	3938.69	0.00
C2_4_6.400.12	3875.94	3875.927	3875.94	0.00
C2_4_7.400.12	3894.13	3894.147	3894.16	0.00
C2_4_8.400.11	4301.75	4301.736	4301.75	0.00
C2_4_9.400.12	3864.68	3865.637	3865.65	0.03
C2_4_10.400.11	3827.15	3856.847	3856.86	0.78
R1_4_1.400.40	10372.31	10399.449	10399.45	0.26
R1_4_2.400.36	8923.50	9069.403	9069.41	1.64
R1_4_3.400.36	7819.09	7949.492	7949.51	1.67
R1_4_4.400.36	7282.78	7352.187	7352.19	0.95
R1_4_5.400.36	9226.21	9484.847	9484.84	2.80
R1_4_6.400.36	8372.91	8523.645	8523.65	1.80
R1_4_7.400.36	7619.04	7718.607	7718.62	1.31
R1_4_8.400.36	7257.28	7346.315	7346.33	1.23
R1_4_9.400.36	8696.88	8923.376	8923.37	2.60
R1_4_10.400.36	8094.10	8313.119	8313.11	2.71
R2_4_1.400.8	9210.15	9274.252	9274.24	0.70
R2_4_2.400.8	7606.75	7606.752	7606.75	0.00
R2_4_3.400.8	5911.07	5911.688	5911.69	0.01
R2_4_4.400.8	4241.47	4241.459	4241.47	0.00
R2_4_5.400.8	7128.93	7132.538	7132.53	0.05
R2_4_6.400.8	6122.60	6122.596	6122.60	0.00
R2_4_7.400.8	5018.53	5034.179	5034.18	0.31
R2_4_8.400.8	4015.60	4015.586	4015.60	0.00
R2_4_9.400.8	6400.10	6402.255	6402.25	0.03
R2_4_10.400.8	5791.70	5797.705	5797.71	0.10
RC1_4_1.400.36	8573.96	8686.939	8686.95	1.32

RC1_4_2.400.36	7892.52	8019.201	<i>8019.21</i>	<i>1.61</i>
RC1_4_3.400.36	7533.05	7677.480	<i>7677.49</i>	<i>1.92</i>
RC1_4_4.400.36	7308.55	7354.792	<i>7354.80</i>	<i>0.63</i>
RC1_4_5.400.36	8172.64	8414.110	<i>8414.11</i>	<i>2.95</i>
RC1_4_6.400.36	8164.98	8429.088	<i>8429.10</i>	<i>3.23</i>
RC1_4_7.400.36	7948.51	8184.149	<i>8184.15</i>	<i>2.96</i>
RC1_4_8.400.36	7773.11	7876.845	<i>7876.98</i>	<i>1.34</i>
RC1_4_9.400.36	7733.81	7883.616	<i>7883.62</i>	<i>1.94</i>
RC1_4_10.400.36	7596.04	7681.717	<i>7681.72</i>	<i>1.13</i>
RC2_4_1.400.11	6682.37	6682.375	<i>6682.37</i>	<i>0.00</i>
RC2_4_2.400.9	6180.62	6199.411	<i>6199.42</i>	<i>0.30</i>
RC2_4_3.400.8	4930.84	4930.832	<i>4930.84</i>	<i>0.00</i>
RC2_4_4.400.8	3631.01	3633.129	<i>3633.14</i>	<i>0.06</i>
RC2_4_5.400.8	6710.12	6710.118	<i>6710.12</i>	<i>0.00</i>
RC2_4_6.400.8	5766.61	5766.603	<i>5766.61</i>	<i>0.00</i>
RC2_4_7.400.8	5334.72	5349.679	<i>5349.69</i>	<i>0.28</i>
RC2_4_8.400.8	4792.75	4833.098	<i>4833.10</i>	<i>0.84</i>
RC2_4_9.400.8	4551.80	4551.798	<i>4551.80</i>	<i>0.00</i>
RC2_4_10.400.8	4278.61	4286.018	<i>4286.03</i>	<i>0.17</i>