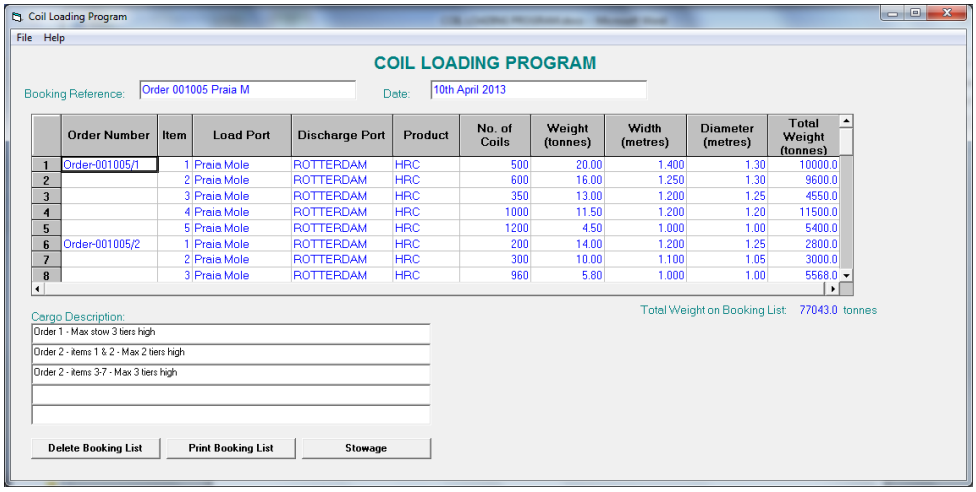
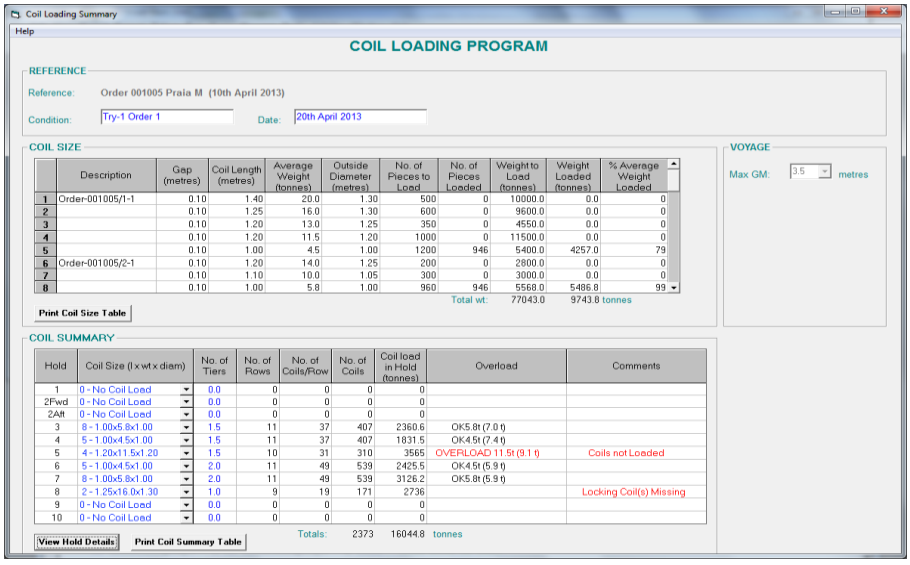
## STEEL COIL LOADING PROGRAM

Based on Steel Coil Loading Rules, the Steel Coil Loading Program can be used to carry out checks on tanktop strength for loading of steel coils. The program can be tailored to the tanktop structure and hold size of a particular vessel. A list of coils to load is created.




| | Order Number | Item | Load Port | Discharge Port | Product | No. of Coils | Weight (tonnes) | Width (metres) | Diameter (metres) | Total Weight (tonnes) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Order-001005/1 | 1 | Praia Mole | ROTTERDAM | HRC | 500 | 20.00 | 1.400 | 1.30 | 10000.0 |
| 2 | | 2 | Praia Mole | ROTTERDAM | HRC | 600 | 16.00 | 1.250 | 1.30 | 9600.0 |
| 3 | | 3 | Praia Mole | ROTTERDAM | HRC | 350 | 13.00 | 1.200 | 1.25 | 4550.0 |
| 4 | | 4 | Praia Mole | ROTTERDAM | HRC | 1000 | 11.50 | 1.200 | 1.20 | 11500.0 |
| 5 | | 5 | Praia Mole | ROTTERDAM | HRC | 1200 | 4.50 | 1.000 | 1.00 | 5400.0 |
| 6 | Order-001005/2 | 1 | Praia Mole | ROTTERDAM | HRC | 200 | 14.00 | 1.200 | 1.25 | 2800.0 |
| 7 | | 2 | Praia Mole | ROTTERDAM | HRC | 300 | 10.00 | 1.100 | 1.05 | 3000.0 |
| 8 | | 3 | Praia Mole | ROTTERDAM | HRC | 960 | 5.80 | 1.000 | 1.00 | 5568.0 |

A range of stowage plans can be produced, in order to optimise the available tanktop loading capacity when carrying steel coils. The program will then indicate - for each coil size - the percentage loaded or left to load. A Summary of coils loaded in each hold is given.




| | Description | Gap (metres) | Coil Length (metres) | Average Weight (tonnes) | Outside Diameter (metres) | No. of Pieces to Load | No. of Pieces Loaded | Weight to Load (tonnes) | Weight Loaded (tonnes) | % Average Weight Loaded |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Order-001005/1-1 | 0.10 | 1.40 | 20.0 | 1.30 | 500 | 0 | 10000.0 | 0.0 | 0 |
| 2 | | 0.10 | 1.25 | 16.0 | 1.30 | 600 | 0 | 9600.0 | 0.0 | 0 |
| 3 | | 0.10 | 1.20 | 13.0 | 1.25 | 350 | 0 | 4550.0 | 0.0 | 0 |
| 4 | | 0.10 | 1.20 | 11.5 | 1.20 | 1000 | 0 | 11500.0 | 0.0 | 0 |
| 5 | | 0.10 | 1.00 | 4.5 | 1.00 | 1200 | 946 | 5400.0 | 4257.0 | 79 |
| 6 | Order-001005/2-1 | 0.10 | 1.20 | 14.0 | 1.25 | 200 | 0 | 2800.0 | 0.0 | 0 |
| 7 | | 0.10 | 1.10 | 10.0 | 1.05 | 300 | 0 | 3000.0 | 0.0 | 0 |
| 8 | | 0.10 | 1.00 | 5.8 | 1.00 | 960 | 946 | 5568.0 | 5486.8 | 99 |
| | | | | | | | Total wt: | 77043.0 | 9743.8 tonnes | |

| Hold | Coil Size (l x wt x diam) | No. of Tiers | No. of Rows | No. of Coils/Row | No. of Coils | Coil load in Hold (tonnes) | Overload | Comments |
|---|---|---|---|---|---|---|---|---|
| 1 | 0 - No Coil Load | 0.0 | 0 | 0 | 0 | 0 | | |
| 2Fwd | 0 - No Coil Load | 0.0 | 0 | 0 | 0 | 0 | | |
| 2Aft | 0 - No Coil Load | 0.0 | 0 | 0 | 0 | 0 | | |
| 3 | 8 - 1.00x5.8x1.00 | 1.5 | 11 | 37 | 407 | 2360.6 | OK5.8t (7.0 t) | |
| 4 | 5 - 1.00x4.5x1.00 | 1.5 | 11 | 37 | 407 | 1831.5 | OK4.5t (7.4 t) | |
| 5 | 4 - 1.20x11.5x1.20 | 1.5 | 10 | 31 | 310 | 3565 | OVERLOAD 11.5t (9.1 t) | Coils not Loaded |
| 6 | 5 - 1.00x4.5x1.00 | 2.0 | 11 | 49 | 539 | 2425.5 | OK4.5t (5.9 t) | |
| 7 | 8 - 1.00x5.8x1.00 | 2.0 | 11 | 49 | 539 | 3126.2 | OK5.8t (5.9 t) | |
| 8 | 2 - 1.25x16.0x1.30 | 1.0 | 9 | 19 | 171 | 2736 | | Locking Coil(s) Missing |
| 9 | 0 - No Coil Load | 0.0 | 0 | 0 | 0 | 0 | | |
| 10 | 0 - No Coil Load | 0.0 | 0 | 0 | 0 | 0 | | |
| | | | | Totals: | 2373 | 16044.8 tonnes | | |

The program will cater for variations in tanktop strength across the hold, making it possible to check for locking coil positions or to increase coil load in some areas. The list of coils is updated as coils are loaded. The program can provide a detailed stowage plan, making use of more than one coil size and thereby allowing the user to optimise stowage for the range of coil sizes available to load.