

INDUSTRIAL CRANES  
NUCLEAR CRANES  
**CONTAINER HANDLING**  
SHIPYARD CRANES  
HEAVY-DUTY LIFT TRUCKS  
SERVICE  
MACHINE TOOL SERVICE

**KONECRANES**<sup>®</sup>  
Lifting Businesses<sup>™</sup>

**YARD PROCESS AUTOMATION**  
**REFERENCES**



## Yard Process Automation References

| Year | Customer                      | Type | No. | Delivery      | Country    | Konecranes ID | Yard Automation systems and features   | Terminal Operating System (TOS) |
|------|-------------------------------|------|-----|---------------|------------|---------------|--|---------------------------------|
| 2017 | TPKS Semarang                 | ARTG | 9   | Freeport      | Indonesia  | G1822-1830    | Automated RTG System   | RBS                             |
| 2017 | TCV Stevedoring Company       | RTG  | 4   | TCV VII       | Spain      | G1884-1887    | Auto-steering, Stack collision prevention  |                                 |
| 2016 | Haifa Port Company            | RMG  | 3   | Haifa II      | Israel     | G1738-1740    | RMG skew control, Auto-TOS reporting   | TSB                             |
| 2016 | Burlington Northern Santa Fe  | RMG  | 3   | Gardner       | USA        | G1699-1701    | RMG skew control, Auto-TOS reporting   | TSB                             |
| 2016 | CICE Container Terminal       | RTG  | 2   | Veracruz      | Mexico     | G1876-1877    | Auto-steering, Stack collision prevention  |                                 |
| 2016 | GCT Deltaport                 | RTG  | 6   | Delta         | Canada     | G1878-1883    | Stack collision prevention   |                                 |
| 2016 | DPW Maputo                    | RTG  | 6   | Maputo        | Mozambique | G1870-1875    | Auto-steering, Auto-TOS reporting, Auto-positioning, Stack collision prevention, Auto-truck guiding, Truck lift prevention                       | Zodiac                          |
| 2016 | Luka Koper                    | CRTG | 7   | Koper VIII    | Slovenia   | G1853-1859    | Auto-steering, Auto-TOS reporting, Auto-positioning, Stack collision prevention  | Tideworks                       |
| 2016 | Port of Lome                  | RTG  | 8   | Togo II       | Togo       | G1843-1850    | Auto-steering, Auto-TOS reporting  | RBS                             |
| 2016 | Cotonou                       | RTG  | 5   | Benin II      | Benin      | G1838-1842    | Auto-steering, Auto-TOS reporting  | OSCAR                           |
| 2016 | Termon                        | RTG  | 5   | Montreal      | Canada     | G1832-1836    | Auto-steering, Auto-TOS reporting, Auto-positioning, Stack collision prevention, Auto-truck guiding  | Navis                           |
| 2016 | CSX                           | RTG  | 1   | Cincinnati II | USA        | G1812         | Auto-steering  |                                 |
| 2016 | GCT Vancouver                 | RTG  | 2   | Vancouver II  | Canada     | G1806-1807    | Stack collision prevention   |                                 |
| 2016 | GCT Vancouver                 | RTG  | 4   | Vancouver     | Canada     | G1794-1797    | Stack collision prevention   |                                 |
| 2016 | APM Terminals                 | RTG  | 4   | Apapa III     | Spain      | G1798-1801    | Auto-steering, Auto-TOS reporting, Stack collision prevention  | Navis                           |
| 2016 | APM Terminals                 | RTG  | 10  | Algeciras     | Spain      | G1722-1731    | Auto-steering, Stack collision prevention  | Navis                           |
| 2016 | TCV Stevedoring Company       | RTG  | 4   | TCV VI        | Spain      | G1790-1793    | Auto-steering, Stack collision prevention  |                                 |
| 2016 | APM Terminals                 | RTG  | 4   | Apapa II      | Nigeria    | G1734-1737    | Auto-steering, Auto-TOS reporting, Stack collision prevention  | Navis                           |
| 2016 | Georgia Ports Authority       | ERTG | 10  | Savannah XIV  | USA        | G1756-1765    | Auto-steering  |                                 |
| 2016 | DCT Gdansk                    | CRTG | 15  | Gdansk        | Poland     | G1775-1789    | Auto-steering, Auto-TOS reporting, Auto-positioning, Stack collision prevention, Auto-truck guiding, Truck lift prevention, Auto-path optimizing | Navis                           |
| 2016 | TPKS Semarang                 | ARTG | 11  | Semarang      | Indonesia  | G1637-1647    | Automated RTG System   | RBS                             |
| 2015 | PT Pelabuhan Indonesia III    | ARMG | 20  | Lamong Bay    | Indonesia  | G1482-1501    | Automated Stacking Crane System  | RBS                             |
| 2015 | Port of Pointe Noire          | RTG  | 12  | Congo II      | Congo      | G1707-1718    | Auto-steering, Auto-TOS reporting  | OSCAR                           |
| 2015 | Port of Everglades            | ERTG | 2   | Everglades    | USA        | G1720-1721    | Auto-steering, Auto-TOS reporting  | Navis                           |
| 2015 | Lome Container Terminal (LCT) | ERTG | 10  | Lome II       | Togo       | G1741-1750    | Auto-steering, Auto-steering <i>Lite</i> , Auto-TOS reporting  | RBS                             |
| 2015 | DPW Yarimca                   | CRTG | 18  | Yarimca       | Turkey     | G1619-G1636   | Auto-steering, Auto-TOS reporting, Auto-positioning, Stack collision prevention, Auto-truck guiding, Truck lift prevention                       | Zodiac                          |
| 2015 | Georgia Ports Authority       | ERTG | 20  | Savannah XII  | USA        | G1648-1667    | Auto-steering  |                                 |

| Year | Customer                          | Type | No. | Delivery              | Country   | Konecranes ID | Yard Automation systems and features                          | Terminal Operating System (TOS) |
|------|-----------------------------------|------|-----|-----------------------|-----------|---------------|---|---------------------------------|
| 2015 | Port of New Orleans               | CRTG | 2   | Nola                  | USA       | G1751-1752    | Auto-steering, Auto-TOS reporting                             | Navis                           |
| 2015 | New Orleans Terminals             | RTG  | 2   | New Orleans           | USA       | G1673-1674    | Auto-steering, Auto-TOS reporting                             | Tideworks                       |
| 2015 | Port of Togo                      | RTG  | 4   | Togo                  | Togo      | G1537-1540    | Auto-steering, Auto-TOS reporting                             | OSCAR                           |
| 2015 | Bronka Fenix                      | RTG  | 10  | Bronka                | Russia    | G1683-1692    | Auto-steering, Auto-TOS reporting, Auto-positioning           | SOLVO                           |
| 2015 | Consumer Goods Myanmar Ltd        | BXH  | 1   | Myanmar               | Myanmar   | G1719         | Auto-steering   |                                 |
| 2015 | Cotonou                           | RTG  | 5   | Benin                 | Benin     | G1702-1706    | Auto-steering, Auto-TOS reporting                             | OSCAR                           |
| 2014 | TCBuen                            | ERTG | 6   | Buenaventura          | Colombia  | G1596-1601    | Auto-steering <i>Lite</i>                                     |                                 |
| 2014 | Mariupol Sea Trading Port         | CRTG | 2   | Mariupol II           | Ukraine   | G1675-1676    | Auto-steering, Auto-TOS reporting                             |                                 |
| 2014 | Tin-can Island Container Terminal | RTG  | 5   | Lagos II              | Nigeria   | G1586-1590    | Auto-steering, Auto-TOS reporting                             | OSCAR                           |
| 2014 | CTSP                              | RTG  | 2   | St. Petersburg        | Russia    | G1611-162     | Auto-steering, Auto-TOS reporting, Auto-positioning           | SOLVO                           |
| 2014 | Port of Kieal                     | RTG  | 1   | Kiel                  | Germany   | G1602         | Auto-steering   |                                 |
| 2014 | New York Container Terminal       | RTG  | 2   | New York              | USA       | G1570-1571    | Auto-steering   |                                 |
| 2014 | Port of Douala                    | RTG  | 4   | Cameroon              | Cameroon  | G1533-1536    | Auto-steering, Auto-TOS reporting                             | OSCAR                           |
| 2014 | Port of Pointe Noire              | RTG  | 4   | Congo                 | Congo     | G1529-1532    | Auto-steering, Auto-TOS reporting                             | OSCAR                           |
| 2014 | Lome Container Terminal (LCT)     | ERTG | 12  | Lome                  | Togo      | G1419-1430    | Auto-steering, Auto-TOS reporting                             | RBS                             |
| 2013 | Mariupol Sea Trading Port         | RTG  | 2   | Mariupol              | Ukraine   | G1509-1510    | Auto-steering   |                                 |
| 2013 | Freeport                          | SC   | 10  | Freeport              | Bahama    |               | Auto-TOS reporting  | NAVIS                           |
| 2013 | TCV V                             | RTG  | 4   | Valencia              | Spain     | G1505-1508    | Auto-steering   |                                 |
| 2013 | APMT Apapa                        | RTG  | 2   | Lagos                 | Nigeria   | G1502-1503    | Auto-steering, Auto-TOS reporting, Stack collision prevention | NAVIS                           |
| 2013 | APMT Apapa                        | RTG  | 8   | Lagos                 | Nigeria   | G1442-G1449   | Auto-steering, Auto-TOS reporting, Stack collision prevention | NAVIS                           |
| 2013 | MPS, Ghana                        | RTG  | 4   | Ghana                 | Ghana     | G1432-G1435   | Auto-steering, Auto-TOS reporting                             | NAVIS                           |
| 2013 | MPS, Ghana                        | RTG  | 5   | Ghana                 | Ghana     | G1436-G1440   | Auto-steering, Auto-TOS reporting                             | OSCAR                           |
| 2013 | CSX                               | RTG  | 2   | Cincinnati, Ohio      | USA       | G1416-G1417   | Auto-steering   |                                 |
| 2013 | Evyap Port                        | ERTG | 8   | Evyapport             | Turkey    | G1407-G1414   | Auto-steering, Auto-TOS reporting                             | in-house                        |
| 2012 | Muuga CT                          | RTG  | 2   | Muuga                 | Estonia   | G1385-1386    | Auto-steering, Auto-TOS reporting, Auto-positioning           | SOLVO                           |
| 2012 | Luka Koper                        | RTG  | 3   | Koper VII             | Slovenia  | G1379-1381    | Auto-steering, Auto-TOS reporting, Auto-positioning           | Tideworks                       |
| 2012 | Tin-can Island Container Terminal | RTG  | 4   | Lagos II              | Nigeria   | G1375-1378    | Auto-steering, Auto-TOS reporting                             | OSCAR                           |
| 2012 | PD Teesport                       | STS  | 4   | Teesport              | UK        | non KC        | Auto-TOS reporting  | NAVIS                           |
| 2012 | MSC                               | RTG  | 3   | Valencia II           | Spain     | G1366-1368    | Auto-steering, Auto-TOS reporting                             | Cosmos                          |
| 2012 | Sifax Group                       | RTG  | 10  | Lagos                 | Nigeria   | G1356-1365    | Auto-steering, Auto-TOS reporting                             | OSCAR                           |
| 2012 | Klaipėdos Smeltė                  | RTG  | 7   | Klaipėda              | Lithuania | G1349-1355    | Auto-steering, Auto-TOS reporting, Auto-positioning           | RBS                             |
| 2012 | NCC, Novorossiysk                 | CRTG | 1   | Novorossiysk II; CRTG | Russia    | G1343         | Auto-steering, Auto-TOS reporting                             | SOLVO                           |
| 2012 | Georgia Ports Authority           | ERTG | 4   | Savannah XII          | USA       | G1310-1313    | Auto-steering   |                                 |

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|------|-----------------------------------|------|-----|--------------------|-------------------|---------------|--------------------------------------|---------------------------------|
| 2012 | Georgia Ports Authority           | RTG  | 16  | Savannah XII       | USA               | G1294-1309    | Auto-steering                        |                                 |
| 2011 | PD Teesport                       | RTG  | 4   | Teesport           | UK                | G1279-1282    | Auto-steering, Auto-TOS reporting    | Navis                           |
| 2011 | Luka Koper                        | RTG  | 2   | Koper VI           | Slovenia          | G1341-1342    | Auto-steering, Auto-TOS reporting    | Tideworks                       |
| 2011 | First Container Terminal (NCC)    | RTG  | 4   | St Petersburg      | Russia            | G1002-G1005   | Auto-steering, Auto-TOS reporting    | SOLVO                           |
| 2011 | First Container Terminal (NCC)    | RTG  | 5   | St Petersburg II   | Russia            | G1241-1245    | Auto-steering, Auto-TOS reporting    | SOLVO                           |
| 2011 | Nemport                           | CRTG | 5   | Nemport            | Turkey            | G1213-1218    | Auto-steering, Auto-TOS reporting    | in-house                        |
| 2010 | Luka Koper                        | RTG  | 2   | Koper V            | Slovenia          | G1247-1248    | Auto-steering                        | Tideworks                       |
| 2010 | Haifa Port Company                | RMG  | 12  | Haifa              | Israel            | G1145-1156    | RMG skew control, Auto-TOS reporting | TSB                             |
| 2010 | Tin-can Island Container Terminal | RTG  | 6   | Lagos              | Nigeria           | G1167-1172    | Auto-steering, Auto-TOS reporting    | OSCAR                           |
| 2010 | UNICAF, Vridi Container Terminal  | RTG  | 8   | Abidjan II         | Ivory Coast       | G1137-1144    | Auto-steering, Auto-TOS reporting    | in-house                        |
| 2009 | HPC Odessa                        | RTG  | 4   | Odessa III         | Ukraine           | G1032-1035    | Auto-steering, Auto-TOS reporting    | in-house                        |
| 2009 | Baltic Container Terminal (NCC)   | CRTG | 11  | Ust-Luga; CRTG     | Russia            | G991-1001     | Auto-steering, Auto-TOS reporting    | SOLVO                           |
| 2009 | NUTEP                             | CRTG | 4   | Novorossiysk; CRTG | Russia            | G987-990      | Auto-steering, Auto-TOS reporting    | SOLVO                           |
| 2009 | Steinweg Handelsveem Bv           | STS  | 4   | Rotterdam          | NL                | non KC        | Auto-TOS reporting, Auto-positioning | ModaLity                        |
| 2009 | MSC                               | RTG  | 12  | Valencia           | Spain             | G971-982      | Auto-steering, Auto-TOS reporting    | Cosmos                          |
| 2009 | HPC Odessa                        | RTG  | 3   | Odessa II          | Ukraine           | G965-967      | Auto-steering, Auto-TOS reporting    | in-house                        |
| 2009 | Logistika Terminal (NCC)          | RTG  | 2   | Shushari           | Russia            | G916-917      | Auto-steering, Auto-TOS reporting    | SOLVO                           |
| 2008 | Logistika Terminal (NCC)          | RTG  | 4   | Shushari           | Russia            | G939-942      | Auto-steering, Auto-TOS reporting    | SOLVO                           |
| 2008 | First Container Terminal (NCC)    | RTG  | 10  | St Petersburg      | Russia            | G929-938      | Auto-steering, Auto-TOS reporting    | SOLVO                           |
| 2008 | SAGT                              | RTG  | 31  | Colombo            | Sri Lanka         | non KC        | Auto-TOS reporting                   | NAVIS                           |
| 2008 | TP Castellon S.A                  | RTG  | 4   | Castellon          | Spain             | G890-893      | Auto-steering, Auto-TOS reporting    | in-house                        |
| 2008 | APM Terminals                     | RTG  | 2   | New York VII       | USA               | G733-734      | Auto-steering                        |                                 |
| 2007 | HPC Odessa                        | RTG  | 4   | Odessa             | Ukraine           | G818-821      | Auto-steering, Auto-TOS reporting    | in-house                        |
| 2007 | SETV                              | RTG  | 8   | Abidjan            | Ivory Coast       | G805-812      | Auto-steering, Auto-TOS reporting    | in-house                        |
| 2007 | Port of Point Lisas               | RTG  | 3   | Trinidad II        | Trinidad & Tobago | G800-802      | Auto-steering, Auto-TOS reporting    | NAVIS                           |
| 2007 | Luka Koper                        | RTG  | 2   | Koper IV           | Slovenia          | G885-887      | Auto-steering                        |                                 |
| 2007 | Luka Koper                        | RTG  | 2   | Koper III          | Slovenia          | G798-799      | Auto-steering                        |                                 |
| 2007 | Halterm                           | RTG  | 4   | Halifax            | Canada            | G720-723      | Auto-steering                        |                                 |
| 2007 | Freeport                          | SC   | 40  | Bahama             | Bahama            | non KC        | Auto-TOS reporting                   | NAVIS                           |
| 2007 | Massport                          | RTG  | 8   | Boston             | USA               | G708-715      | Auto-steering                        |                                 |
| 2007 | Port Ashdod                       | TP   | 5   | Ashdod             | Israel            | non KC        | Auto-TOS reporting                   | TSB                             |
| 2007 | Port Ashdod                       | RS   | 8   | Ashdod             | Israel            | non KC        | Auto-TOS reporting                   | TSB                             |
| 2007 | APM Terminals                     | RTG  | 4   | Los Angeles VI     | USA               | G700-703      | Auto-steering                        |                                 |



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|------|---------------------------------|------|-----|-----------------|-------------------|---------------|--------------------------------------|---------------------------------|
| 2006 | APM Terminals                   | RTG  | 4   | Los Angeles V   | USA               | G693-696      | Auto-steering                        |                                 |
| 2006 | APM Terminals                   | RTG  | 2   | Oakland II      | USA               | G691-692      | Auto-steering                        |                                 |
| 2006 | APM Terminals                   | RTG  | 4   | New York VI     | USA               | G687-690      | Auto-steering                        |                                 |
| 2006 | APM Terminals                   | RTG  | 4   | Houston IV      | USA               | G683-686      | Auto-steering                        |                                 |
| 2006 | APM Terminals                   | RTG  | 2   | Los Angeles IV  | USA               | G681-682      | Auto-steering                        |                                 |
| 2006 | Dragados                        | RTG  | 6   | Malaga II       | Spain             | G670-675      | Auto-steering, Auto-TOS reporting    | TSB                             |
| 2006 | Luka Koper                      | RTG  | 1   | Koper II        | Slovenia          | G637          | Auto-steering                        |                                 |
| 2006 | APM Terminals                   | RTG  | 2   | Los Angeles III | USA               | G631-632      | Auto-steering                        |                                 |
| 2006 | PONL LACT                       | RTG  | 5   | Los Angeles     | USA               | G626-630      | Auto-steering                        |                                 |
| 2006 | APM Terminals                   | RTG  | 2   | Tacoma          | USA               | G610-611      | Auto-steering                        |                                 |
| 2006 | APM Terminals                   | RTG  | 4   | Los Angeles II  | USA               | G606-609      | Auto-steering                        |                                 |
| 2006 | APM Terminals                   | RTG  | 2   | Oakland         | USA               | G604-605      | Auto-steering                        |                                 |
| 2006 | APM Terminals                   | RTG  | 2   | New York V      | USA               | G602-603      | Auto-steering                        |                                 |
| 2006 | Dragados                        | RTG  | 6   | Malaga          | Spain             | G594-599      | Auto-steering, Auto-TOS reporting    | TSB                             |
| 2005 | IPA                             | RS   | 10  | Haifa           | Israel            | non KC        | Auto-TOS reporting                   | TSB                             |
| 2005 | IPA                             | TP   | 4   | Haifa           | Israel            | non KC        | Auto-TOS reporting                   | TSB                             |
| 2005 | APM Terminals                   | RTG  | 7   | Los Angeles     | USA               | G556-562      | Auto-steering                        |                                 |
| 2005 | Port of Point Lisas             | RTG  | 3   | Trinidad        | Trinidad & Tobago | G522-524      | Auto-steering, Auto-TOS reporting    | NAVIS                           |
| 2005 | APM Terminals                   | RTG  | 4   | New York IV     | USA               | G502-505      | Auto-steering                        |                                 |
| 2004 | APM Terminals                   | RTG  | 2   | Norfolk II      | USA               | G484-485      | Auto-steering                        |                                 |
| 2004 | MPA                             | RTG  | 3   | Baltimore III   | USA               | G466-468      | Auto-steering, Auto-TOS reporting    | NAVIS                           |
| 2004 | Israel Ports Authority          | RTG  | 24  | Ashdod          | Israel            | G442-465      | Auto-steering, Auto-TOS reporting    | TSB                             |
| 2004 | Luka Koper                      | RTG  | 1   | Koper           | Slovenia          | G440          | Auto-steering                        |                                 |
| 2003 | MPA                             | RTG  | 3   | Baltimore II    | USA               | G421-423      | Auto-steering, Auto-TOS reporting    | NAVIS                           |
| 2002 | Ceres Gulf Inc.                 | RTG  | 2   | New Orleans     | USA               | G375-376      | Auto-steering, Auto-TOS reporting    | in-house                        |
| 2002 | MPA                             | RTG  | 6   | Baltimore       | USA               | G359-364      | Auto-steering, Auto-TOS reporting    | NAVIS                           |
| 2001 | Port Ashdot, IPA                | RMG  | 6   | Ashdod          | Israel            | non KC        | Auto-TOS reporting                   | TSB                             |
| 2001 | Ceres Paragon                   | SC   | 39  | Amsterdam       | NL                | non KC        | Auto-TOS reporting                   | NAVIS                           |
| 2001 | Manzanillo Intern. Terminal SA. | SP   | 13  | Colon           | Panama            | non KC        | Auto-TOS reporting                   | Tideworks                       |
| 2001 | Manzanillo Intern. Terminal SA. | RTG  | 25  | Colon           | Panama            | non KC        | Auto-TOS reporting                   | Tideworks                       |
| 2001 | Manzanillo Intern. Terminal SA. | RTG  | 6   | Panama III      | Panama            | G333-338      | Auto-TOS reporting                   | Tideworks                       |
| 2001 | Manzanillo Intern. Terminal SA. | RTG  | 6   | Panama II       | Panama            | G230-235      | Auto-TOS reporting                   | Tideworks                       |
| 2001 | Manzanillo Intern. Terminal SA. | RTG  | 18  | Colon           | Panama            | non KC        | Auto-TOS reporting                   | Tideworks                       |

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|--------------|--------------------|------|------------|-----------|---------|---------------|--------------------------------------|---------------------------------|
| 2000         | Port of Haifa, IPA | RMG  | 12         | Haifa     | Israel  | non KC        | Auto-TOS reporting                   | TSB                             |
| 1999         | Port Of Kotka      | SC   | 23         | Kotka     | Finland | non KC        | Auto-TOS reporting                   | COSMOS                          |
| 1999         | MDHC               | SC   | 32         | Liverpool | UK      | non KC        | Auto-TOS reporting                   | NAVIS                           |
| <b>Total</b> |                    |      | <b>888</b> |           |         |               |                                      |                                 |

#### Yard Automation feature explanations

|  |   |
|--|---|
| <b>Auto-steering</b>                     | Keeps the RTG on the driving lane on pre-programmed paths, creating for the RTG "invisible rails" with gantry absolute position detection. Accurate enough driving for ARTG.                |
| <b>Auto-steering Lite</b>                | Keeps the RTG on the driving lane on pre-programmed paths, creating for the RTG "invisible rails".  |
| <b>RMG skew control</b>                  | Keeps the RMG perpendicular to the rails with gantry absolute position detection. Eliminates gantry skew and need for corrective steering.  |
| <b>Auto-TOS reporting</b>                | Reports all the crane made container moves to TOS to enable up-to-date inventory. Eliminates lost containers.   |
| <b>Auto-positioning</b>                  | Automatically slows down and stops the crane above the next target container slot based on the next work order from TOS.  |
| <b>Auto-path optimizing</b>              | Optimizes the load travelling path in trolley direction thus saves time and energy.   |
| <b>Auto-truck guiding</b>                | Automatically guides the truck on how to position accurately under the RTG in line with the bay.  |
| <b>Stack collision prevention</b>        | Assists the operator in preventing container collisions while handling containers in the bay direction, detecting mixed container bays (20' and   |
| <b>Stack collision prevention Lite</b>   | Assists the operator in preventing container collisions while handling containers in the bay direction  |
| <b>Adjacent bay collision prevention</b> | Assists the driver in preventing load collisions with containers overlapping from adjacent bay when RTG trolley moves the load in bay direction   |
| <b>Truck lift prevention</b>             | Assists to prevent the lifting of container with a truck if i.e. container has been left attached to truck with corner locks on by stopping the hoist motion when a truck lift is detected. |