C L A I M S

1. Wellbore drilling system comprising:

- a drilling tower (4),
- a drill floor (25) having a well center (27) through which a drill string passes along a firing line,
- a drilling tubulars storage rack (10, 11) adapted to store multiple drilling tubulars in vertical orientation,
- a tubular racking device (40, 40') having at least a lower first tubular racker assembly (41, 41'; 141, 141') and at least a second tubular racker assembly (42, 42'; 142, 142') operable at a greater height than the first tubular racker assembly, each tubular racker assembly comprises a base (41b'; 141'b), a motion arm (41b; 142'b) connected to said base, and a tubular gripper member (41t; 141t) connected or connectable to the motion arm and adapted to grip a tubular,

wherein – with the tubular gripping member connected to the motion arm of the racker assemblies – the tubular racking device is adapted to grip and retain a drilling tubular by the tubular racker assemblies, and wherein the tubular racking device is adapted to place a tubular in and remove a tubular from the drilling tubulars storage rack (10, 11),

and wherein the tubular racking device has a reach at least allowing to transfer a tubular gripped by said first and second tubular racker assemblies between the drilling tubulars storage rack (10, 11) and a position of the tubular aligned with the firing line (5) above the well center so as to allow for building and disassembly of a tubulars string, e.g. a drill string or a casing string,

wherein the system further comprises one or more well center tools, each adapted for operation above the well center of the drill floor, e.g. an iron roughneck tool for making up and breaking out of threaded tubular joints,

characterized in that the motion arm of the lower first tubular racker assembly is provided with a connector, and the at least one well center tool is provided with a complementary connector, and

wherein – with the at least one well center tool connected to the motion arm of the lower first tubular racker assembly – the well center tool is operable above the drill floor.

2. Wellbore drilling system according to claim 1, wherein the tubular gripper member is connected to the connector of the motion arm, and wherein the well center tool is adapted to be connected to said motion arm after prior removal of the tubular gripper member from the motion arm.

3. Wellbore drilling system according to claim 1, wherein the connector of the motion arm is a mechanical connector.

4. Wellbore drilling system according to claim 1, wherein the motion arm is a telescopic extensible arm, the arm having a first arm segment which is connected to the base via a vertical axis bearing allowing the motion arm to revolve about said vertical axis, and wherein said arm comprising one or more telescoping additional arm segments.

5. Wellbore drilling system according to claim 1, wherein two tubular racking devices are provided adjacent a tubulars storage rack, each tubular racking device comprising a lower tubular racking assembly with a motion arm provided with a connector for a well center tool.

6. Wellbore drilling system according to claim 1, wherein said well center tools storage structure is arranged such that said one or more well center tools stored therein are within reach of the lower first tubular racker assembly (43, 43’; 143, 143’), and that at least one well center tool is adapted to be connected to the motion arm of the first tubular racker assembly, so as to allow connection of a well center tool to the motion arm while the well center tool is stored in the well center tools storage structure.

7. Wellbore drilling system according to claim 1, wherein the system comprises multiple well center tools having identical mechanical connectors that are connectable to the connector of the motion arm of the lower first tubular racker assembly.

8. Wellbore drilling system according to claim 1, wherein the system comprises at least one of the following well center tools:

- an iron roughneck (150) for making up and breaking out of threaded tubular joint,
- a raised back-up system clamp adapted to clamp a drill string top end at an elevated position above the drill floor,
- a guide sheave for one or more lines and/or umbilicals and/ or hoses to be introduced into the well bore,
- a thread doper adapted to clean a threaded tubular end and to dope the threaded tubular end,
- a mud bucket adapted to catch mud upon tripping in order to retrieve mud allowing for re-use of the mud.

9. Wellbore drilling system according to claim 1, wherein a first and a second drilling tubulars storage rack (10, 11) is provided on opposite sides of the drilling tower (4), and wherein a first tubular racking device (40; 140) is arranged to transfer tubulars between the first drilling tubulars storage rack (10) and the firing line, and wherein a second tubular racking device (41; 141) is arranged to transfer tubulars between the second drilling tubulars storage rack (11) and the firing line.

10. Wellbore drilling system according to claim 1, wherein one or more of the tubular racker assemblies of a tubular racking device are provided with a base that is guided along a common vertical rails (145).

11. Offshore drilling vessel comprising:

- a hull; e.g. a mono-hull,
- a drilling system according to one or more of the preceding claims, wherein preferably a moonpool is present in the hull, and wherein the drilling structure is mast at or near the moonpool with the firing line along and on the outside of the mast.

12. Method for drilling wherein use is made of a wellbore drilling system according to one or more of the preceding claims.

13. Method for drilling according to claim 13, comprising the following steps:

- gripping a tubular in the drilling tubulars storage rack by the first and second tubular racker assemblies,
- retaining and removing a tubular from the drilling tubulars storage rack, and transferring the tubular to a position wherein the tubular is aligned with the firing line above the well center so as to allow for building of a tubulars string,
- interrupting the building of a tubulars string,
- retaining a well center tool by means of the first racker assembly above the well center, with the base of the lower first tubular racker assembly in the well center servicing position,
- operating the well center tool above the drill floor.