CLAIMS

[Claim 1]

A jig for pile driving placed inside a casing-tube rotating machine and provided with a spiral collar for gripping a pile having a blade sticking out in a direction perpendicular to a pile axis,

the spiral collar comprising

a connecting part extending in a pile axial direction and connected to the casing-tube rotating machine, and

a gripping part joined with the connecting part and extending in a direction perpendicular to the pile axis;

the spiral collar gripping the pile through the gripping part,

a weight of the connecting part being 1.05 times or more a weight of the gripping part,

the connecting part and the gripping part being divided into two or more sections along a pile circumferential direction, and

the gripping part being divided into two or more sections along the pile axial direction,

each of the sections comprising

a front end face facing an outside surface of the pile and divided into two regions given an angle at a bent part extending in the pile axial direction, and

a pair of contact surfaces of planar shapes arranged at the front end face straddling the bent part,

wherein the pair of contact surfaces are arranged apart from each other, and

the bent part is exposed without being covered by the pair of contact surfaces.

[Claim 2]

The jig for pile driving according to claim 1, wherein seen from a direction perpendicular to the pile axis, an area of the gripping part getting touch with the pile is 1/30 time to 2/3 time an area of the connecting part getting touch with the pile.

[Claim 3]

The jig for pile driving according to claim 1 or 2 wherein

a length of the gripping part in the direction perpendicular to the pile axis is a length of 0.1 time to 1.0 time a pile diameter and is longer than a length of the

blade sticking out from the pile in the direction perpendicular to the pile axis,

the spiral collar has a plurality of groove parts for allowing the blade to turn between the pair of the sections divided along the pile axial direction,

an engaging groove part provided at a topmost part of the plurality of the groove parts in the pile axial direction and formed with a step difference in the pile axial direction with respect to another groove part adjoining it along the pile circumferential direction is for engaging the blade, and

a disengaging groove part provided at a bottommost part of the plurality of the groove parts in the pile axial direction and formed with a step difference in the pile axial direction with respect to another groove part adjoining it along the pile circumferential direction is for disengaging the blade turning from the engaging groove part through the plurality of the other groove parts.

[Claim 4]

The jig for pile driving according to any one of claims 1 to 3 wherein the contact surfaces comprises convexo-concave parts in the surface.

[Claim 5]

A tubing equipment comprising a jig for pile driving according to any one of claims 1 to 4.