Helical Piles and Accessories Product Guide

SSP DC 02 | Version 1.0 | 14 October 2026

SSP manufactures round shaft helical piles and related steel components to customer-approved configurations. Use this guide to identify the product family and the information needed for a manufacturing enquiry.

Product families

Family	Shaft outside diameters	Typical supply scope
Light duty helical piles	60, 73, 76 and 89 mm	Lead sections and matching extensions configured for the required application.
Standard helical piles	102, 114 and 140 mm	Project and repeat-order supply, with specified helices and connection details.
Custom helical piles	168 mm and other custom diameters	Geometry and fabrication agreed for the proposed product and project requirements.
Accessories	To suit the approved pile interface	Pile caps, top plates, post brackets, adjustable brackets, couplings and custom parts.

These names organise the product range. They are not load ratings. Shaft diameter alone does not determine compression, uplift, lateral or moment resistance, or the permitted installation torque.

Components available for discussion

- Lead sections with a helix arrangement suited to the approved design.
- Extension sections with compatible couplings and specified fasteners.
- Pile heads and brackets matched to the supported structure.
- Helical anchor assemblies and custom fabricated steel components.

Defining the product to be manufactured

Please send the current approved drawing, or identify the following dimensions and requirements. Where information is incomplete, we can help identify what is needed for product development and quotation.

Item	Information to specify
Shaft	Outside diameter, wall thickness, length, material specification and any splice details.
Helices	Number, outside diameter, thickness, pitch, spacing and orientation.
Connections	Coupling geometry, hole pattern, fasteners, weld details and compatible mating parts.
Pile cap or bracket	Plate size and thickness, adjustment range, hole sizes and structural interface.
Surface treatment	Black steel or hot-dip galvanizing; nominated standard and coating acceptance requirements.
Identification and packing	Customer marking, drawing revision, bundle arrangement and handling requirements.

Materials and finishes

Common material discussions include Q235B, Q355B and Q460-series steels. The exact grade, product standard and inspection evidence are agreed for each order. A cross-standard substitution requires review of the actual material properties and project specification.

Hot-dip galvanizing is available for fabricated assemblies. Average and local coating requirements, measurement methods and any repair requirements should be stated in the purchase specification.

OEM and custom supply

We can manufacture to customer-approved drawings and discuss geometry, welding access, assembly, marking and packing. Detailed production drawings and project-specific specifications are confirmed through the enquiry and order process.

For a quotation, email ryanzhang@ssppile.com with drawings, quantities, the delivery destination and required date. Use the Project Enquiry Checklist if project-based product selection is needed.