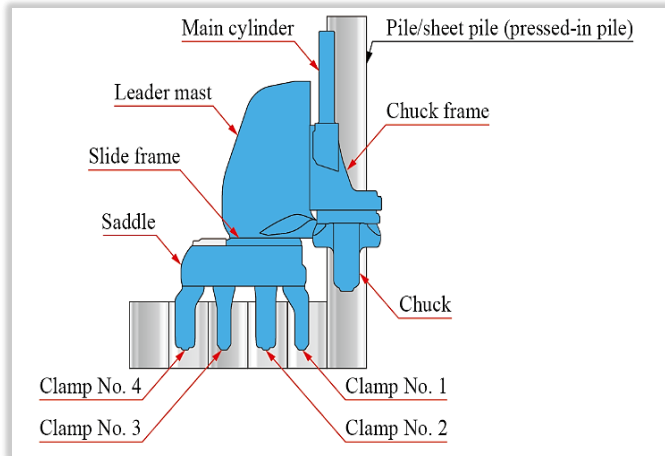


Serial Report

Terminologies in Press-in Engineering (Part 2)

IPA Editorial Committee



The “**Press-in retaining structures: a handbook (First edition, 2016)**” was issued in December 2016 and the seminars on Press-in technology by utilizing this handbook were held 4 times in Singapore, Malaysia, Thailand and Philippines so far.

Following terminologies Press-in Engineering (Part 1) in Volume 2, Issue 1, Part 2 presents “Functions of each component on Silent Piler” as follows:

Functions of each component on Silent Piler

Components	Functions
Clamps	a component of Silent Piler for obtaining reaction force to press-in piles/sheet piles by clamping the previously installed piles/sheet piles (3 or 4 clamps, depending on the type of Silent Piler)
Saddle	a component to hold Leader mast with Slide frame and to connect with clamps.
Slide frame	a component to slide inside of Saddle and Leader mast are mounted. Function to decide the longitudinal location of the pile/sheet pile, sliding the leader mast in the forward/backward direction.
Leader mast	a component to guide pile/sheet pile for upwards and downwards movement with Main cylinder and to keep pile/ sheet pile in appropriate right and left direction. It is also a storage space for other mechanical and electrical components with important functions.
Main cylinder	Hydraulic cylinder to press piles/sheet piles into the ground by moving them up and down
Chuck frame	a component to hold rotating Chuck and move upward and downward together with Chuck by Main cylinder.
Chuck	a component of Silent Piler, which grips piles/sheet piles by claws to press piles/sheet piles into the ground. It can rotate inside of Chuck frame
Multi-purpose monitor	Monitor mounted on the side of Leader Mast to indicate the press-in force, inclination angle and the open/close state of Chuck for the operator to check the installation status during machine operation with either wired or wireless control device.

(to be continued on Part 3)