

Line-up of FLIP Programs

★ For flip rose ver.7.4 series

★ For flip rose ver.7.2 series

(As of August 2019)

Program	Description	FLIP ROSE ver.7 series Academic Version [Number of computers] Stand-alone	FLIP Consortium Overseas Member [Number of computers] Maximum of ten computers connected through LAN *Latest version is available	Category
<p>★ flip rose 7.4 series</p> <p>(Latest version: ver.7.4.3)</p>	<p>(FLIP ROSE Ver.7.4 Series have the functions of FLIP ROSE Ver.7.2 Series with the following addition and modification.)</p> <p>① Incorporate the function to represent skin friction to pile-soil interaction spring element</p> <p>② Introduce Hirayama's pile end bearing capacity model as a nonlinear spring element</p> <p>③ Improve the axial force dependency of trilinear M-φ relationship in nonlinear beam element (IEL=16)</p> <p>④ Add components and formats of element output</p> <p>⑤ Add a function of computing and output flow velocity vector of pore water (cross-sectional average) for pore water element (drained) (ver.7.3.1)</p> <p>⑥ Add plane stress element as one of linear plane elements (ver.7.4.0)</p> <p>⑦ Introduce the bilinear model corresponding to the Revised Technical Standards and Commentaries for Port and Harbour Facilities (2018) (IHT=2 and IAX=5) (ver.7.4.0)</p> <p>⑧ Allow to output pore water element - soil element correspondence table to the file (#07) (ver.7.4.0)</p> <p>⑨ Fix the bug in Hirayama Model introduced in nonlinear spring element in FLIP ROSE (Ver.7.4.0) where the initial tangent stiffness became 0 when IHN= -4. Fix the bug in Rayleigh damping matrix of the function which simulates the skin friction of pile introduced in pile-soil interaction spring element in FLIP ROSE (Ver.7.3.0).</p> <p>⑩ Bugfix is applied on the fact that FLOW command introduced in FLIP ROSE(Ver.7.3.1) for output flow velocity vector erroneously include response data of other elements in flow velocity vector file (#40).</p> <p>⑪ FLIP ROSE ver.7.4.3 was made from FLIP ROSE ver.7.4.2 with bugfix in FLOW command.</p>	○	○	Main Program
<p>FLIP ROSE 2D</p> <p>flipsim 5.0 series★</p> <p>(Latest version: ver.5.0.0)</p>	<p>Program for determination of liquefaction parameters (multi-spring model element) (with drawing figure function)</p> <p>(used for FLIP ROSE ver.7.3 or later)</p>	○	○	Pre-Processor
<p>flipgen 5.3 series★</p> <p>(Latest version: ver.5.3.5)</p>	<p>Program implemented with the advanced function specialized for use in FLIP analysis which are different from commercially available mesh generators</p> <p>(with basic function used for mesh generation of standard analysis model)</p> <p>(used for FLIP ROSE ver.7.3 or later)</p>	○	○	Pre-Processor
<p>flipcsim 5.0 series★</p> <p>(Latest version: ver.5.0.0)</p>	<p>Program for determination of liquefaction parameters (cocktail glass model element) (with drawing figure function)</p> <p>(used for FLIP ROSE ver.7.3 or later)</p>	○	○	Pre-Processor
<p>fileconv10★</p>	<p>File format conversion program for drawing figures of time histories, stress paths, stress-strain relations by Excel</p> <p>(used for FLIP ROSE Ver.7.3 or later)</p>	○	○	Post-Processor
<p>flip2dtomavs201★</p>	<p>File format conversion program for generating animation from results of FLIP ROSE 2D</p> <p>(used for FLIP ROSE Ver.7.3 or later)</p>	○	○	Post-Processor
<p>fliphist30★</p>	<p>Time series data extraction program for drawing figures of time histories, stress paths and stress-strain relations</p> <p>(used for FLIP ROSE Ver.7.3 or later)</p>	○	○	Post-Processor
<p>flipsect30★</p>	<p>Spatial distribution data extraction program for drawing figures of deformation and excess pore water pressure distribution</p> <p>(used for FLIP ROSE Ver.7.3 or later)</p>	○	○	Post-Processor
<p>★ flip rose 7.2 series</p> <p>(Latest version: ver.7.2.3_7)</p>	<p>2D dynamic effective stress analysis program</p> <p>Undrained/partially drainage analysis (settlement due to dissipation of pore water pressure)</p> <p>Incorporated asymmetric modified Takeda model element to nonlinear beam element, etc.</p>	○*	○*	Main Program
<p>flipsim 4.0 series★</p> <p>(Latest version: ver.4.0.1)</p>	<p>Program for determination of liquefaction parameters (multi-spring model element) (with drawing figure function)</p> <p>(used for FLIP ROSE ver.7.2 series)</p>	○*	○*	Pre-Processor
<p>flipgen 5.0 series★</p> <p>(Latest version: ver.5.0.5)</p>	<p>Program implemented with the advanced function specialized for use in FLIP analysis which are different from commercially available mesh generators</p> <p>(with basic function used for mesh generation of standard analysis model)</p> <p>(used for FLIP ROSE ver.7.2 series)</p>	○*	○*	Pre-Processor
<p>flipcsim 4.0 series★</p> <p>(Latest version: ver.4.0.2)</p>	<p>Program for determination of liquefaction parameters (cocktail glass model element) (with drawing figure function)</p> <p>(used for FLIP ROSE ver.7.2 series)</p>	○*	○*	Pre-Processor

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FLIP ROSE 2D	fileconv6 ★	○*	○*	Post-Processor
	flip2dtomavs17 ★	○*	○*	Post-Processor
	fliphist23 ★	○*	○*	Post-Processor
	flipsect25 ★	○*	○*	Post-Processor
	pickupdata6 ★★	○	○	Post-Processor
	waveconv33 ★★		○	Post-Processor
	flowplot ★	*For flip rose ver.7.4 series A tool for drawing flow velocity vectors from #40 file		○
FLIP ROSE 3D	flip rose 3d 1.6 series (Latest version: ver.1.6.6)		○	Main Program
	flipmesh10 (Latest version: ver.1.0.12)		○	Pre-Processor
	flip3dtomavs17		○	Post-Processor
	flip3dhist20		○	Post-Processor
	flip3dssect20		○	Post-Processor
TULIP	flip tulip 6.5 series (Latest version: ver.6.5.0)		○	Main Program

[Note]

Programs marked with ○* :

Overseas Members can download these old programs from FLIP Consortium Overseas Member Site.
For those who have a license to FLIP ROSE ver.7 series Academic Version, the old programs (○*) are also downloadable from the support service site from which a set of the most recent versions of the programs (○) are downloadable.

System requirements:

The executable modules of FLIP main programs and pre-/post- processors are compiled by Intel Visual Fortran to run on 64 bit Windows 7 or later with Intel CoreI series 2nd generation or later.

Bugs:

FLIP Consortium will provide the bug fix release to FLIP Consortium Overseas Members and FLIP ROSE Ver.7 series Support Service Members as soon as the bug has been fixed. If a serious bug is found in a program, FLIP Consortium will arrange so that the bug fix release can be obtained by all the customers who have purchased FLIP ROSE Ver. 7 Series, including those who are not Support Service Members.