



## Pile Handling

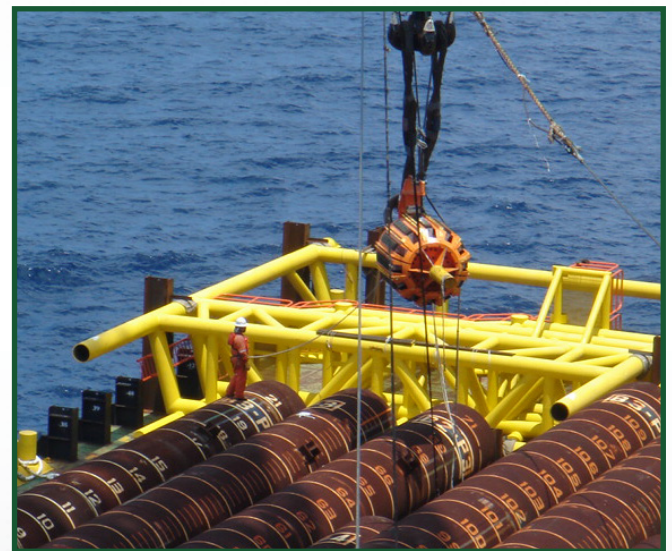
### Internal Lifting Tool (ILT)

STATS Internal Lifting Tools (ILT) from 8" to 102" are used for the safe lifting and upending of tubular piles for insertion into the seabed. ILTs can be inserted either horizontally, using the center of gravity bracket as a lifting arm, or lowered vertically into the pile. The ILT is then hydraulically actuated in order to set the locks, gripping the pile internally. The ILT is then raised using its lifting eye at the end of the central shaft. The pile can then be lowered into a socket on the seabed. The ILT is unset and retracted in order for the pile to be driven into the seabed by a hydraulic hammer.

ILT bodies can be resized using various upsizing kits allowing one tool to cover a wide range of pile sizes, each resizing setup can handle a 6" ID variation – covering all pile wall thicknesses with just one setup. Tool resizing is fast and simple due to the transport and handling frame with in-built lifting apparatus, allowing easy component change-out. The ILT benefit from optional sealing units which provide suction and pressurization functionality to greatly improve the handling of tubular piles and aid with pile removal.



84" Internal Lifting Tool



72" Internal Lifting Tool

Pile Diameter Range (Outside Diameter)	Wall Thickness Range (to API 2B tolerance)
48"	3/4" - 3"
54"	3/4" - 4"
60"	3/4" - 4"
66"	3/4" - 4"
72"	3/4" - 4"
78"	3/4" - 4"
84"	3/4" - 4"
90"	3" - 4"

Design Code	DNV Standard for Certification No. 2.22 Lifting Appliances
SWL Vertical	600 T
Proof Load Test	800 T
Horizontal Pile Upending	Capable of upending a 220 T pile from horizontal position
Maximum Water Depth	3500m
Maximum Pile True Batter (600 T Lift)	11.77 deg (from vertical)
Operation	Via umbilical to 200m. 200-3500m with optional ROV operated package
Possible Upgrade with Sealing Module	To aid suction assisted pile installation or pressure assisted pile removal
Resizing and Transport Frame	In-built lifting apparatus for fast component changeout and resizing



## Internal Lifting Tool (ILT) - Interface Dimensions

ILT SIZE	Pile Size (in)	Pile OD (mm)	WT (in)	ID (mm)	TOOL OD (mm)	LOCK OD (mm)	Min ID covered (mm)	Max ID covered (mm)
48"	48	1219.2	3	1066.8	1030	1015	1060	1285
	48	1219.2	2½	1092.2				
	48	1219.2	2	1117.6				
	48	1219.2	1½	1143.0				
	48	1219.2	1	1168.4				
	48	1219.2	¾	1181.1				
	54	1371.6	4	1168.4				
54"	54	1371.6	3	1219.2	1180	1165	1210	1435
	54	1371.6	2½	1244.6				
	54	1371.6	2	1270.0				
	54	1371.6	1½	1295.4				
	54	1371.6	1	1320.8				
	54	1371.6	¾	1333.5				
60"	60	1524.0	4	1320.8	1330	1315	1360	1585
	60	1524.0	3	1371.6				
	60	1524.0	2½	1397.0				
	60	1524.0	2	1422.4				
	60	1524.0	1½	1447.8				
	60	1524.0	1	1473.2				
	60	1524.0	¾	1485.9				
66"	66	1676.4	4	1473.2	1480	1465	1510	1735
	66	1676.4	3	1524.0				
	66	1676.4	2½	1549.4				
	66	1676.4	2	1574.8				
	66	1676.4	1½	1600.2				
	66	1676.4	1	1625.6				
72"	66	1676.4	¾	1638.3	1630	1615	1660	1885
	72	1828.8	3	1676.4				
	72	1828.8	2½	1701.8				
	72	1828.8	2	1727.2				
	72	1828.8	1½	1752.6				
	72	1828.8	1	1778.0				
	72	1828.8	¾	1790.7				
78"	78	1981.2	4	1778.0	1780	1765	1810	2035
	78	1981.2	3	1828.8				
	78	1981.2	2½	1854.2				
	78	1981.2	2	1879.6				
	78	1981.2	1½	1905.0				
	78	1981.2	1	1930.4				
84"	78	1981.2	¾	1943.1	1930	1915	1960	2185
	84	2133.6	4	1930.4				
	84	2133.6	3	1981.2				
	84	2133.6	2½	2006.6				
	84	2133.6	2	2032.0				
	84	2133.6	1½	2057.4				
	84	2133.6	1	2082.8				
	84	2133.6	¾	2095.5				
90	2286.0	4	2082.8					
90	2286.0	3	2133.6					