

# Internal Cutting Tool

Cut piles below the mudline without external dredging



## FEATURES

Cuts piles with OD from 24 in to 120 in

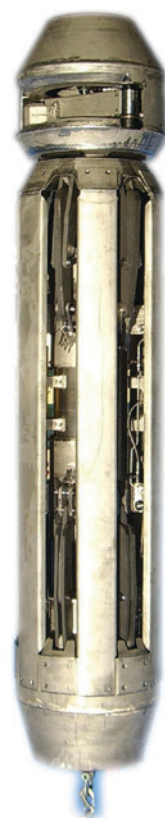
Clean and even cuts

Superior cutting speed

# Internal Cutting Tool

## Cut piles below the mudline without external dredging

The Internal Cutting Tool (ICT) is based on Oceaneering's powerful abrasive water jet cutting (AWJC) technology and is ideal for efficient internal cutting of piles. The AWJC method uses a high-energy jet of water-borne abrasive particles to cut even the hardest steel alloys quickly and safely. The ICT produces a clean cut, which makes it easy to lift piles, steel jackets, and other subsea structures.



### Specifications

Cutting medium	Water (salt or fresh) and environmentally friendly abrasives
Pressure	7,000-30,000 psi / 500-2,000 bar
Water flow rate:	8-32 gal/min / 30-120 l/min
Typical utility requirements of vessel/platform	Sea water (32 gal/min @ 30 psi / 120 l/min @ 2 bar) Fresh water for cleaning of tool post-deployment Crane (15T capacity) and rigging assistance for handling of equipment Electric power (110 V and 220 V) Compressor work air
Typical footprint / deck space requirement	Approximately 600 ft <sup>2</sup> / 60 m <sup>2</sup>

Equipment	Pile outer diameter	Tool dimensions (OD/L)	Tool weight (in air)
ICT 2436	24 in to 36 in	18 in / 142 in [0.46 m / 3.6 m]	2,138 lb / 970 kg
ICT 3660	36 in to 60 in	29 in / 142 in [ 0.73 m / 3.6 m]	3,307 lb / 1,600 kg
ICT 6090	60 in to 90 in (Adapter up to 120in)	56 in / 165 in [1.4 m / 4.2 m]	4,630 lb / 2,100 kg

Other versions are available on request.

### Typical Complete System Equipment List

Equipment	Quant.	Eq. weight	Dimensions (LBH)
High pressure water pump	1*	15,000 lb / 6,800 kg	171 x 77 x 99 in / 4.3 x 2.0 x 2.5 m
Abrasive mixer unit (AMU) (separated for easier transport)	1*	28,660 lb / 13,000 kg	76 x 76 x 200 in / 1.9 x 1.9 x 5.1 m
Internal cutting tool (ICT 3660,)	2	3,500 lb / 1580 kg	138 x 30 x 30 in / 3.5 x 0.75 x 0.75 m
Hydraulic power unit	1	4,100 lb / 1,500 kg	100 x 45 x 62 in / 2.6 x 1.2 x 1.6 m
Control/workshop container	1	10,000 lb / 4,500 kg	192 x 96 x 102 in / 4.9 x 2.4 x 2.6 m
Transport basket (ICT 3660, including tool)	1	4,000 lb / 1,818 kg	148 x 40 x 35.5 in / 3.75 x 1.0 x 0.9 m

\*Backup recommended for larger jobs.

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