



International Construction Equipment
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ICE[®] MODEL EM27

EXCAVATOR - MOUNTED DRILLING AND PILING MAST



Increase job profit by using your excavator for drilling and piling work

- Drills holes to 35' (11 m) deep and 30" (760 mm) diameter
- Uses standard rotary heads, drifters & down-the-hole hammers for drilling
- Uses ICE[®] vibrators for pile driving
- Quickly mounts on standard excavators
- Powered by excavator bucket circuit



Applications:

- Solar field piles
- Tie-backs
- Auger-cast piles
- Sound barrier walls
- Micropiles
- Well points
- Foundation piers
- Pile predrilling
- Sheet piling walls
- Communication towers
- Soil nails
- Helical anchors
- Blast holes

Advantages:

- Three applications in one rig:
excavator, drill & mounted
vibratory hammer
- Extended reach due to excavator boom
- Mounts to existing excavator
- Vibro attachments are excellent for
installing solar fields, fencing, piling
and more



INTERNATIONAL CONSTRUCTION EQUIPMENT, INC.



ICE[®] Mo EXCAVATOR - MOUNTED

COMPONENTS & ACCESSORIES



Remote Control Pendant



Chain Drive



30° Tilt, Side-to-Side and Fore-Aft Rotation



Vibratory Driver / Extractor (optional)



Rotary Head (optional)



Air & Water Injection Tube (optional)

VIBRATORY HAMMER & ROTARY HEAD ATTACHMENTS SPECIFICATIONS

ICE [®] Model 2 Vibratory Driver / Extractor		
Eccentric moment	200 in-lbs	2.3 kg-m
Maximum driving force	13 tons	117 kN
Maximum centrifugal force	12.5 tons	111 kN
Performance with typical CAT excavators		
With CAT 330C		
Frequency at low pressure	2500 vpm	
Frequency at high pressure	1700 vpm	
With CAT 325C		
Frequency at low pressure	2500 vpm	
Frequency at high pressure	1450 vpm	
Maximum pull for extraction	4.3 tons	38 kN
Weight with clamp	1,590 lbs	720 kg-m

Vibrator frequency at higher pressure can be higher with CAT kit to combine pump flows.

ICE [®] Model EX-25 Rotary Head		
Performance with typical CAT excavators		
With CAT 330C		
Maximum Torque	20,700 ft-lbs	28000 Nm
Speed	22-36 rpm	
With CAT 325C		
Maximum Torque	20,700 ft-lbs	28000 Nm
Speed	20-32 rpm	
Weight	1,350 lbs	612 kg
Crowd Force	25,000 lbs	11340 kg
Extraction Force	18,000 lbs	8165 kg
Optional Swivel ID	3 in	75 mm

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DEL EM-27 DRILLING AND PILING MAST



PRODUCT SPECIFICATIONS

ICE® Model EM27 Drill Mast		
Maximum Performance		
Torque	27,000 ft-lb	3730 kg-m
Crowd Force	18,000 lbs	80 kN
Extraction Force	18,000 lbs	80 kN
Maximum Drilling Diameter	30 in	762 mm
Standard Stroke	30 ft	9.1 m
Optional Stroke	40 ft	12.2 m
Mast Movement		
Side-to-Side	30° each way	
Fore-Aft	180° each way	
Vertical Lift	12 in	300 mm
Weight & Dimensions		
Weight	10,355 lbs	4700 kg
Length without Rotary Head	38 ft	11.58 m
Width	4 ft	1.22 m
Depth	7 ft	2.13 m
Optional Mast Length	10 ft	3 m
Optional Mast Weight	750 lb	340 kg
Optional Items		
Mast Extension	10 ft	3 m
	1,220 lbs	555 kg
Rotary Heads	EX-12, EX-25, HS-27	
Vibratory Driver / Extractor		
Percussion Heads		

Constant improvement and engineering progress make it necessary that ICE®, Inc reserve the right to make specification changes without notice. Please consult ICE® for the latest available information.

Options:

- 10ft. (3 m) Extension
- Remote control
- Hydraulic clamping and breaking device
- Compressor for spoil removal
- Dust absorption
- Different tool types and swivel heads



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EXCAVATOR - MOUNTED DRILLING AND PILING MAST



Set up for pile predrill



Auger flighting guides



Eurodrill head



Dust collector



Solar field foundations



ICE[®] EX-25 Rotary Head

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