



Compare the HPA, the E-SAXIMETER and the PDA

		HPA (hammer ram must be visible)	E-SAXIMETER	PDA/CAPWAP
E N E R G Y	Measures hammer potential energy	YES	YES (for open end diesel hammers)	YES (for open end diesel hammers)
	Measures hammer kinetic energy	YES	YES (w/ optional accessory)	YES (for steel piles only with air, steam, hydraulic or drop hammers)
	Measures hammer peak and impact velocities	YES	YES (w/ optional accessory)	YES (for steel piles only with air, steam, hydraulic or drop hammers)
	Charts velocity versus time	YES	NO	NO
	Determines stroke	YES	YES (for open end diesel hammers)	YES (for open end diesel hammers)
	Measures energy transferred to the pile	NO	NO	YES
	Permits determining the efficiency of the system hammer-helmet-cushion	NO	NO	YES
D R I V I N G	Registers blow count and relates to penetration	NO	YES	YES
	Permits automatic penetration recording	NO	YES (w/ optional accessory)	NO
	Records date and time of blows, including interruptions in driving	NO	YES	YES
S C A T T E R I N G S E N S I T I V I T Y	Measures pile capacity	NO	NO	YES
	Measures piles stresses during driving	NO	NO	YES
	Detects pile damage with location and extent	NO	NO	YES
	Determines resistance distribution (skin friction and end bearing)	NO	NO	YES
	Determines dynamic soil parameters for future wave equation analyses	NO	NO	YES