APE D220-42 Single Acting Diesel Impact Hammer

**MODEL D220-42 (22.0 metric ton ram)**

**SPECIFICATIONS**

- **Stroke at maximum rated energy**: 135 in (343 cm)
- **Maximum rated energy (Setting 4)**: 545,738 ft-lbs (736.75 kNm)
- **Setting 3**: 485,706 ft-lbs (655.70 kNm)
- **Setting 2**: 420,218 ft-lbs (567.29 kNm)
- **Minimum rated energy (Setting 1)**: 332,900 ft-lbs (449.41 kNm)

*(Variable throttle allows for infinite fuel settings)*

- **Maximum obtainable stroke**: 150 in (381 cm)
- **Maximum obtainable energy**: 815,938 ft-lbs (1,106 kNm)
- **Speed (blows per minute)**: 34-53

**WEIGHTS (Approximate)**

- **Piston**: 48,510 lbs (22,000 kg)
- **Hammer weight (includes hydraulic trip device)**: 112,300 lbs (50,929 kg)
- **Typical operating weight**: Consult Factory

**CAPACITIES**

- **Fuel tank (runs on diesel or bio-diesel)**: 95 gal (360 liters)
- **Oil tank**: 26 gal (98 liters)

**CONSUMPTION**

- **Diesel or Bio-diesel fuel**: 18 gal/hr (68 liters/hr)
- **Lubrication**: 2 gal/hr (7.6 liters/hr)
- **Grease**: 8 to 10 pumps every 20 minutes of operation time.

**STRIKER PLATE**

- **Weight**: 2,400 lbs (1089 kg)
- **Diameter**: 30 in (76.2 cm)
- **Area**: 706 in² (4,555 cm²)
- **Thickness**: 12 in (77.4 cm)

**CUSHION MATERIAL**

- **Type/Qty**: Micarta / 3 each
- **Diameter**: 30 in (76.2 cm)
- **Thickness**: 1 in (25.4 mm)

- **Type/Qty**: Aluminum / 4 each
- **Thickness**: 1/2 in (12.7 mm)
- **Diameter**: 30 in (76.2 cm)
- **Total Combined Thickness**: 5 in (12.7 cm)
- **Area**: 706 in² (4,555 cm²)
- **Elastic-modulus**: 285 ksi (1,965 mpa)
- **Coeff. of restitution**: Consult Factory

**TYPICAL OFFSHORE LEADER**

- **Standard offshore for 98”/2.5m piles and under**: Consult Factory

**MINIMUM BOX LEAD SIZE/OPERATING LENGTH**

- **Minimum box leader size**: 10 in x 60 in (25.4 cm x 152 cm)
- **Operating length in offshore**: 432 in (1097.28 cm)

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**Note**: All specifications are subject to change without notice 01/01/2020