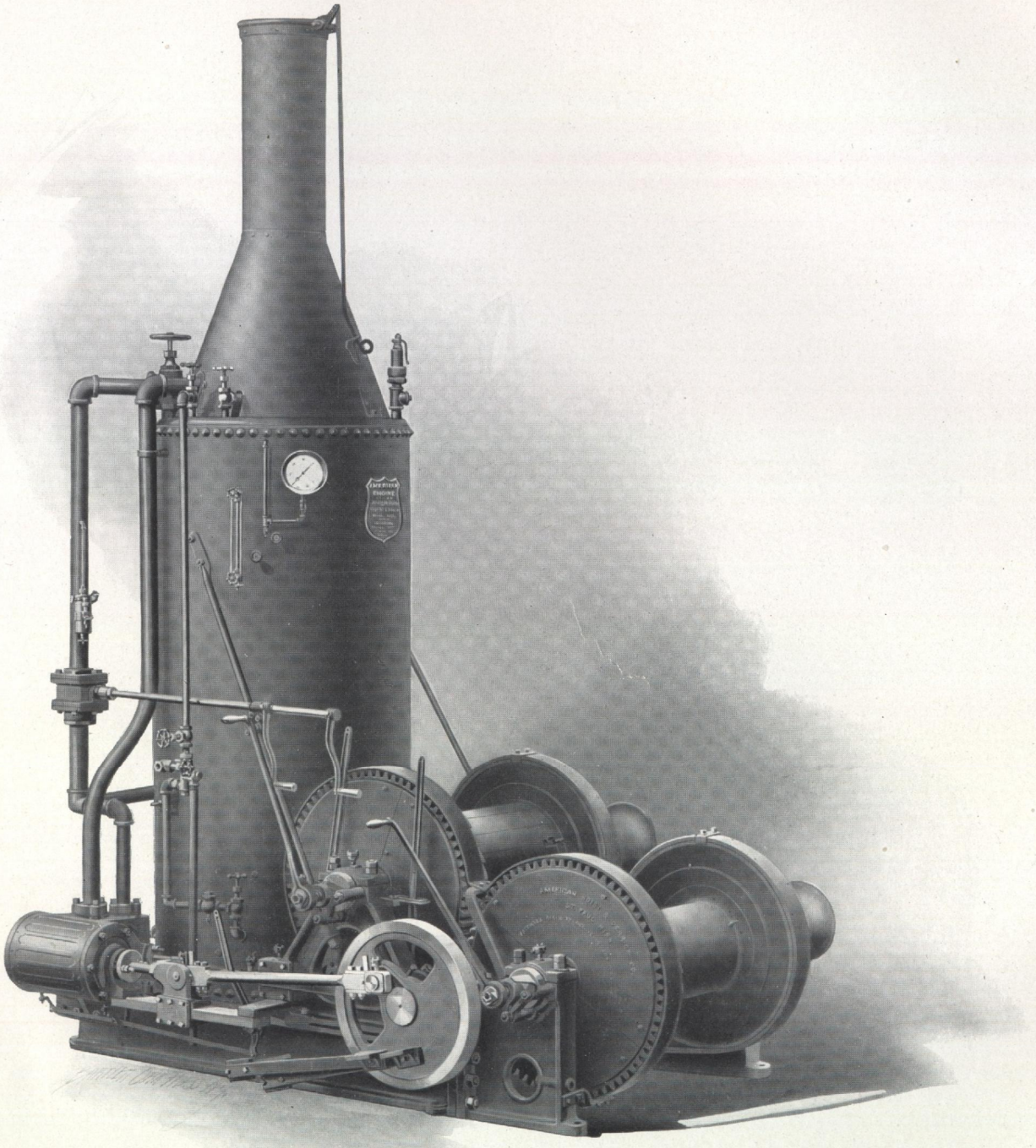
Double Cylinder "American" Hoist

With Two Friction Drums



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Double Cylinder "American" Hoist

Two Friction Drums—Two Winch Heads

This engine is the one most used for general contract work. Double friction drums independently operate **two hoisting lines.** Brakes grip with full strength at right time, and release freely. **Safety** pawls hold any load, hoisting or at rest. 7 x 10 engines and larger have friction and ratchet ring at operator's end, and brake of similar diameter at opposite end of drums; deep strong drum flanges hold great quantities of rope; brake and friction being separated, both work cool. Gearing substantially guarded. Easily worked levers, **handy for operator.**

Two fixed winch heads are regularly provided, one at left end of each drum shaft. Independent winch heads of lever type, similar to those shown on engine cut 743, page 28, can be furnished at small additional price, but only when engine is so ordered.

Standard Features

A perfect friction clutch, large and cool running—easy to operate—great strength—adjustable for wear.

Brakes on 7 x 10 and larger engines are dredge type—brake bands on opposite end of drum from friction do not easily burn.

Drum ratchets milled from wrought steel—teeth cannot be broken.

Drums bronze bushed—easily lubricated—turn easily.

Steady power on single line ratings. Boilers afford great speed and range.

Engines and boilers thoroughly tested to 125 pounds, steam throttle pressure, on practical work.

Engine parts are wholly outside of drum frames—everything accessible—levers complete.

Engines with and without boilers alike—parts all interchange—parts in stock.

Construction Details, pages 4 to 11

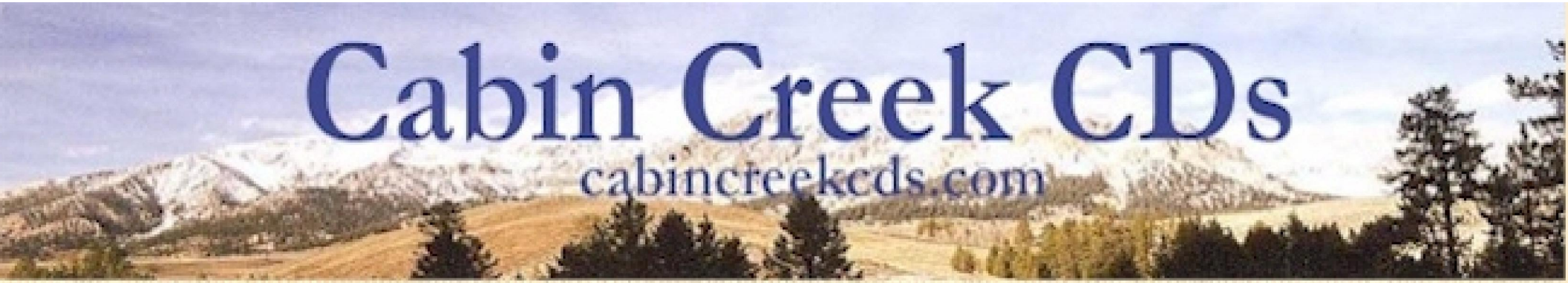
Description		Estimated Shipping Weights		Standard Ratings for 100-Pound Pressures					Standard Sizes							
				Single Line Pull Pounds			Quick Pile Driving with Drop Hammer		Drums		Boiler				Cylinders	
Use Telegraph Code	or Engine Number	With Boiler	Without Boiler	Clam Shell plus Contents or Similar Work	Heavy Lifting as in Quarry Work	Standard Diameter Drum Inches	Weight Hammer for Nine 20-Foot Blows per Minute	Suitable Diameter Drum Lagged Inches	Length Between Flanges Inches	Diameter Frictions Inches	Horse Power	Diameter of Shell Inches	Height of Shell Inches	Number of 2-Inch Flues	Bore Inches	Stroke Inches
Habit	24	6780	. . . .	3750	5000	10	1500	14	20	24	11	33	73	61	5½	8
Haven	46	. . . .	4570	3750	5000	10	1500	14	20	24	. . . .	. . . .	. . . .	. . . .	5½	8
Eagle	26	8650	. . . .	4500	6000	12	2000	16	23	24	16	36	85	72	6¼	10
Eject	48	. . . .	5860	4500	6000	12	2000	16	23	24	. . . .	. . . .	. . . .	. . . .	6¼	10
Babel	28	10510	. . . .	6500	7500	12	2500	16	23	25	20	39	85	90	7	10
Basal	50	. . . .	6990	6500	7500	12	2500	16	23	25	. . . .	. . . .	. . . .	. . . .	7	10
Cairn	111	14175	. . . .	7500	8500	14	3000	18	27	33	30	43	95	120	8¼	10
Caste	117	. . . .	9970	7500	8500	14	3000	18	27	33	. . . .	. . . .	. . . .	. . . .	8¼	10
Calab	235	15565	. . . .	8300	9000	14	3500	18	27	33	40	46	101	150	8¼	10
Cilad	243	. . . .	10200	8300	9000	14	3500	18	27	33	. . . .	. . . .	. . . .	. . . .	8¼	10
Kizer	171	20510	. . . .	10000	11000	16	4000	20	31	36	50	50	101	184	9	10
Koran	175	. . . .	14120	10000	11000	16	4000	20	31	36	. . . .	. . . .	. . . .	. . . .	9	10
Abaft	27	26145	. . . .	12000	13500	16	4500	20	33	42	55	55	103	198	10	12
Addle	55	. . . .	18945	12000	13500	16	4500	20	33	42	. . . .	. . . .	. . . .	. . . .	10	12

Engines listed above heavy line have cast gears; below heavy line weldless forged-steel rim cut gears with forged-steel cut pinion.
6¼ x 10 and smaller Engines have their brakes on same end of drums as their frictions. 9 x 10 and larger Engines have one-piece side frames.

Standard attachments may be added or special features made as follows:

Drum lagging . . . . . thick, page 5, $ . . . . per drum. Lagging 2 inches thick carried in stock.
Reversing link motion, page 8, $ . . . .
Special boiler, page 10, $ . . . .
Slewing attachment, pages 16 to 17, $ . . . Per pages 18 to 19, $ . . . Per pages 20 to 21, $ . . . Per page 42, $ . . .
Banked levers, pages 34 to 35, $ . . . . per lever.
Third drum attachment for 7 x 10 frame, $ . . . . 8¼ x 10, $ . . . . 9 x 10, $ . . . . 10 x 12, $ . . . .
Weldless forged steel rim cut gears, with forged steel cut pinion for number 117 or 111 or smaller engine, $ . . . .
Steam friction thrust, for operating friction clutch by steam, $ . . . . per drum.
Independent bronze-bushed clutch winch heads of lever type, per cut 743, page 28, $ . . . . per drum.

Tool box with tools and part list included with every engine.



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