

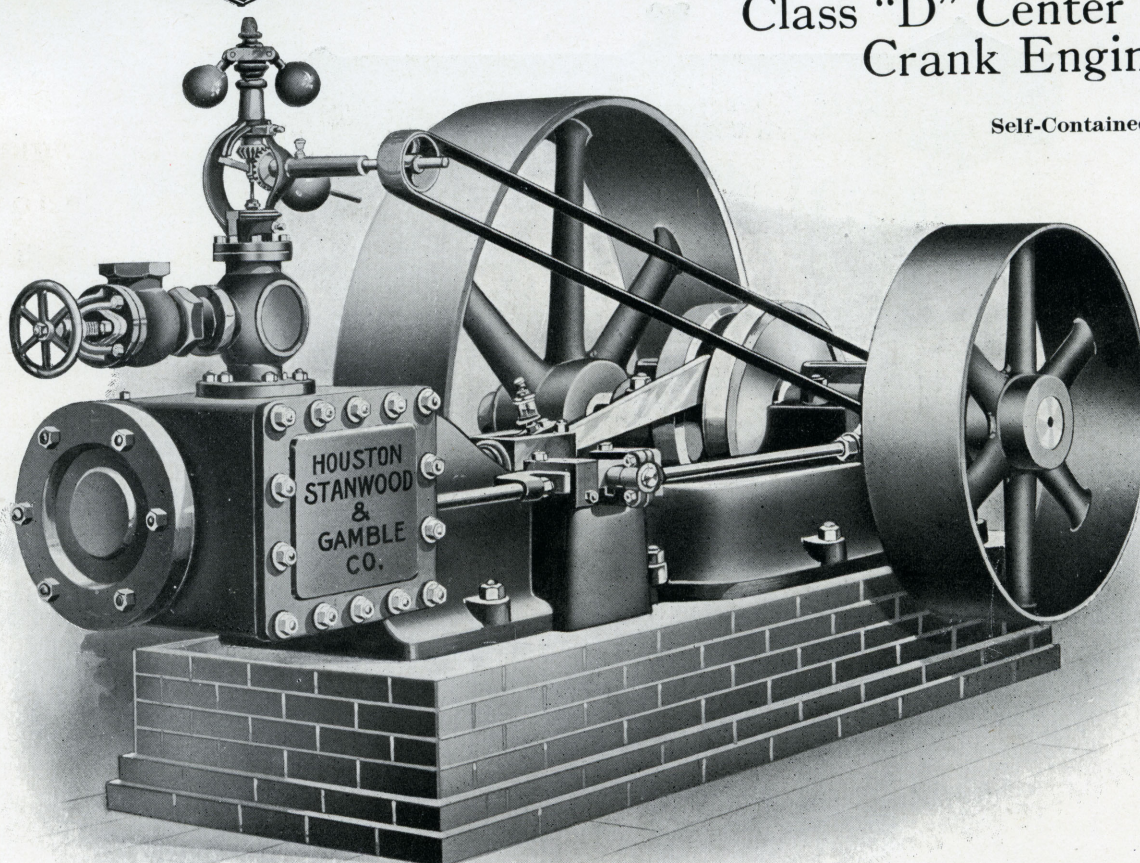


BULLETIN No. 30

CLASS D

Class "D" Center Crank Engine

Self-Contained



SIZE		INDICATED H. P.*				WHEELS				SHAFT		PIPES	Space Occupied	Shipping Weight
Bore Inches	Stroke Inches	Rev. per Minute	Pressure at Throttle			Large		Small		Diam. Inches	Length Inches	Steam and Exhaust Pipes Inches	Breadth and Length Inches	Approx. Pounds
			80 Lbs.	90 Lbs.	100 Lbs.	Diam. Inches	Face Inches	Diam. Inches	Face Inches					
7	12	220	18	20	22	42	10	20	8½	3¾	52	2-3	57 x 88	2,350
		240	20	22	24									
		260	22	24	26									
8	12	220	23	25	29	42	10	20	8½	3¾	52	2-3	57 x 90	2,450
		240	25	29	32									
		260	27	31	35									
9	12	200	27	30	35	48	12	20	8½	3¾	52	2-3½	57 x 93	2,800
		220	30	33	38									
		240	33	37	42									
10	12	200	32	35	38	48	12	28	10½	3¾	59	2½-3½	64 x 102	3,500
		220	35	40	45									
		240	40	45	50									
10	14	180	35	40	45	54	12	28	10½	3¾	59	2½-3½	64 x 105	4,000
		200	40	45	50									
		220	45	50	55									
11	14	180	44	50	55	60	14	36	10½	3¾	59	2½-4	64 x 111	4,500
		200	50	55	60									
		220	55	60	65									
12	16	160	54	60	65	60	14	36	10½	4¾	67	3-4	73 x 123	6,000
		180	60	65	70									
		200	66	70	75									
13	16	160	65	70	75	66	14	36	10½	4¾	67	3-4½	73 x 128	6,500
		180	70	75	80									
		200	75	80	85									

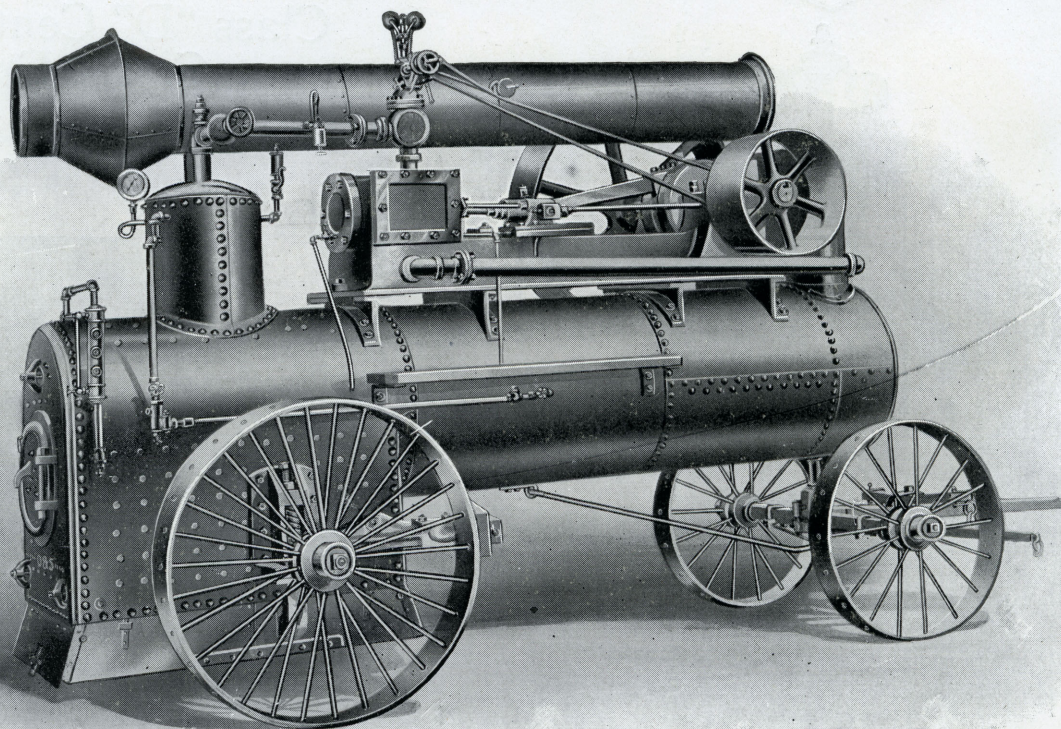
Note—Crank Shaft; Large Diameter, Solid Forged. Crank Pin same Diameter as Shaft. Balance Slide Valve on all Engines 10x12 and larger. Governor, with Automatic Stop. Foundation Bolts always included. We furnish with these Engines the following Fittings: Governor, with Automatic Safety Stop, and Belt; Throttle Valve, Band Flywheel, Small Belt Pulley, Spanner Wrenches, Automatic Sight Feed Lubricator, Oil Cups and Cylinder Cocks; Foundation Bolts.

*H. S. & G. throttling governor, balanced valve engines are suitable for operation at their rated horsepowers, with boilers for 100 lbs., 125 lbs., or 150 lbs.

These Engines are constructed with the care bestowed upon our Side Crank Engines; the design and proportions being up to our standard practice, which has made our engines so famous for Heavy, Strong and Good Qualities.

Horizontal Engine on Portable Boiler

MOUNTED ON WHEELS



Six Sizes: 10, 15, 20, 25, 30 and 35 Horse-Power

DESCRIPTION	HORSE-POWER					
	10	15	20	25	30	35
Size of Engine Cylinder, Inches...	7x10	8x10	9x12	10x12	10x13	
Revolutions Per Minute.....	190	190	160	160	190	160
Diameter of Pulleys, Inches.....	18 & 44	20 & 44	20 & 48	24 & 52	24 & 52	24 & 60
Face of Pulleys, Inches.....	8 & 10 1/2	10 & 10 1/2	10 & 12 1/2	12 & 12 1/2	12 & 12 1/2	12 & 12 1/2
Diameter of Boiler, Inches.....	32	32	34	36	36	40
Length of Furnace, Inches.....	38	44	52	52	52	52
Height of Furnace, Inches.....	33	33	36	38	40	42
Width of Furnace, Inches.....	26	26	28	30	30	34
Number of 3 inch Tubes.....	26	26	28	34	34	40
Length of Tubes, Inches.....	72	78	90	96	120	102
Diameter of Smoke Stack, Inches..	14	14	16	16	16	20
Length of Smoke Stack, Feet.....	11	12	13	14	16	15
Shipping Weight, Lbs.....	8000	8700	10200	12000	12500	14400
Price, Complete	\$961.00	\$1022.00	\$1214.00	\$1337.00	\$1419.00	\$1575.00
Price of Crating for Export.....	51.00	55.00	58.00	63.00	63.00	67.00

Fittings and Fixtures comprise grates, water column, water gauge, gauge cocks, steam gauge, pop safety valve, check and stop valves, whistle blow-off valve, hinged stack, ash pan, injector attached, fly wheel, pulley, oil cups, lubricator, throttle valve, automatic governor and belt, pipe connection between boiler and engine, running gear as shown in cut, including wheels, tongue, neckyoke, doubletree, whiffletrees and brake.

All wheels are of iron. Axle is in one piece, made of the best steel, bent to shape and extends across underneath fire-box. Rear axle is equipped with springs.