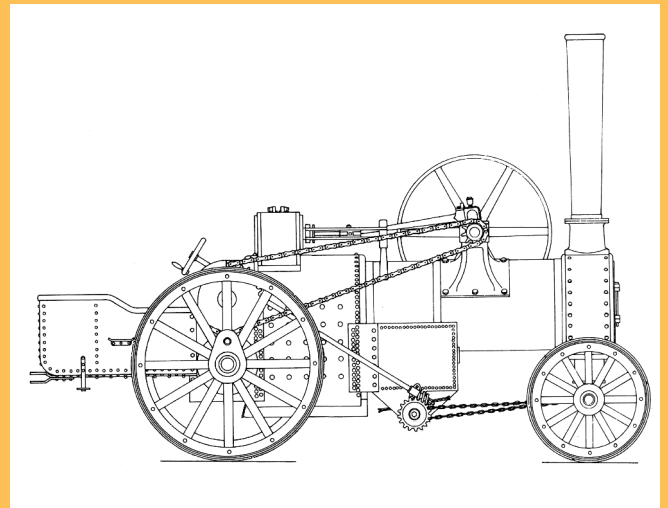


# Foster 5" Single Cylinder Rope Hauling Engine

Stock No.	Description	Unit	Material
DRG5F-IMP	Set of drawings	set	
5F5	Firehole door & hinge	each	Cast iron
5F6	Fire bars	set/6	Cast iron
5F7	Second shaft bearings	pair	Cast iron
5F8	Axle bearings	pair	Cast iron
5F9	Right-hand drive flange	each	Cast iron
5F10	Second shaft chain sprocket	each	Steel
5F11	Top steering bracket	each	Cast iron
5F12	Chimney base	each	Cast iron
5F13	Chimney base ring	each	Cast iron
5F14	Perch bracket	each	Cast iron
5F15	Front fork	each	S G iron
5F16	Axle beams	pair	Cast iron
5F17	Front hubs	pair	Cast iron
5F18	Front hub inner cover plates	pair	Cast iron
5F19	Front hub outer cover plates	pair	Cast iron
5F20	Front wheel rims & tyres	pair	Steel
5F21	Rear hubs	pair	Cast iron
5F22	Rear hub cover plates	set/4	Cast iron
5F23	Rear wheel rims & tyres	pair	Steel
5F24	Big end bearings	each	Gunmetal
5F25	Small end bearings	each	Gunmetal
5F26	Valve chest cover	each	Cast iron
5F27	Safety valve cover	each	Cast iron
5F28	Left-hand drive flange	each	Cast iron
5F29	Winding drum	each	Cast iron
5F30	Final drive ring	each	Steel
5F31	Final drive pinion	each	Cast iron
5F32	Boiler clack valve	each	Gunmetal
5F33	Steam pump kit	each	Gunmetal
5F36	Chain shaft bearings	each	Cast iron
5F37	Steering wheel	each	Cast iron
5F38	Bottom steering bracket	each	Cast iron
5F39	Pulley mounting	each	S G iron
5F40	Rope pulley wheel	each	Cast iron
5F41	Water pocket & lid	each	Gunmetal
5F42	Cannon bracket & top cover	pair	Cast iron
5F43	Cannon bearings	pair	Gunmetal
5F44	Eccentric centre	each	Cast iron
5F45	Eccentric strap	each	Cast iron
5F46	Crankshaft chain sprocket	each	Steel
5F47	Crankshaft	each	S G iron
5F48	Flywheel	each	Cast iron
5F49	Cylinder block	each	Cast iron
5F50	Cylinder liner	each	Cast iron
5F51	Piston	each	Cast iron
5F53	Cylinder front cover	each	Cast iron
5F54	Cylinder rear cover	each	Cast iron
5F55	Slide bars	set/4	Cast iron
5F56	Rear slide bracket	each	Cast iron
5F57	Crosshead	each	Cast iron
5F58	Slippers	pair	Cast iron
5F59	Slide valve	each	Gunmetal
5F60	Piston gland	each	Gunmetal
5F61	Valve gland	each	Gunmetal
5F62	Regulator gland	each	Gunmetal
5F63	Drive chain & link	9 foot	Steel
5F65	Smoke box tube	each	Steel
5F67	Smoke box door & boiler ring	pair	Steel
5F68	Smoke box door blank	each	Steel
5F75	Compensating centre	each	Cast iron
5F76	Winding drum for comp.drive	each	Cast iron
5F77	Bevel gears	pair	Cast iron
5F80	Motion bracket	each	Cast iron
5F81	Cross shaft bracket	each	Cast iron
5F82	Eccentric straps	pair	Cast iron
5F83	Exhaust blast nozzle	each	Cast iron



A most unusual engine based on a portable of which a few were built by William Foster & Co. Ltd. in 1901. It is a single cylinder and although large in scale is a very easy machine to build. It is chain driven and has one road speed. There is a dog clutch fitted to the right hand side of the crankshaft to disengage the drive for threshing, wood sawing and rope hauling. A steam pump is fitted to the left-hand side of the jelly tank. No differential is fitted as standard, but this can be fitted as an optional extra if required. If you are wondering why it is called a rope hauling machine, a rope is taken off the bottom of the winding drum, round the pulley under the belly tank, and out of the right-hand side, similar to a ploughing engine. Hence its name!

## General Dimensions

Length	90"
Width	35 1/4"
Height to top of chimney	62"
Height to top of flywheel	44 1/2"
Flywheel x width	22 1/2" x 2 1/2"
Rear wheel x width	28" x 4 1/2"
Boiler barrel x length	12" x 29 3/4"
No. of tubes x thickness	12 x 10 swg
Tube x length	1 1/4" x 29 5/8"
Firebox grate area	168 square"
Working pressure	100 PSI
Cylinder bore	3.75"
Stroke	5"

Available in Imperial and Metric dimensions