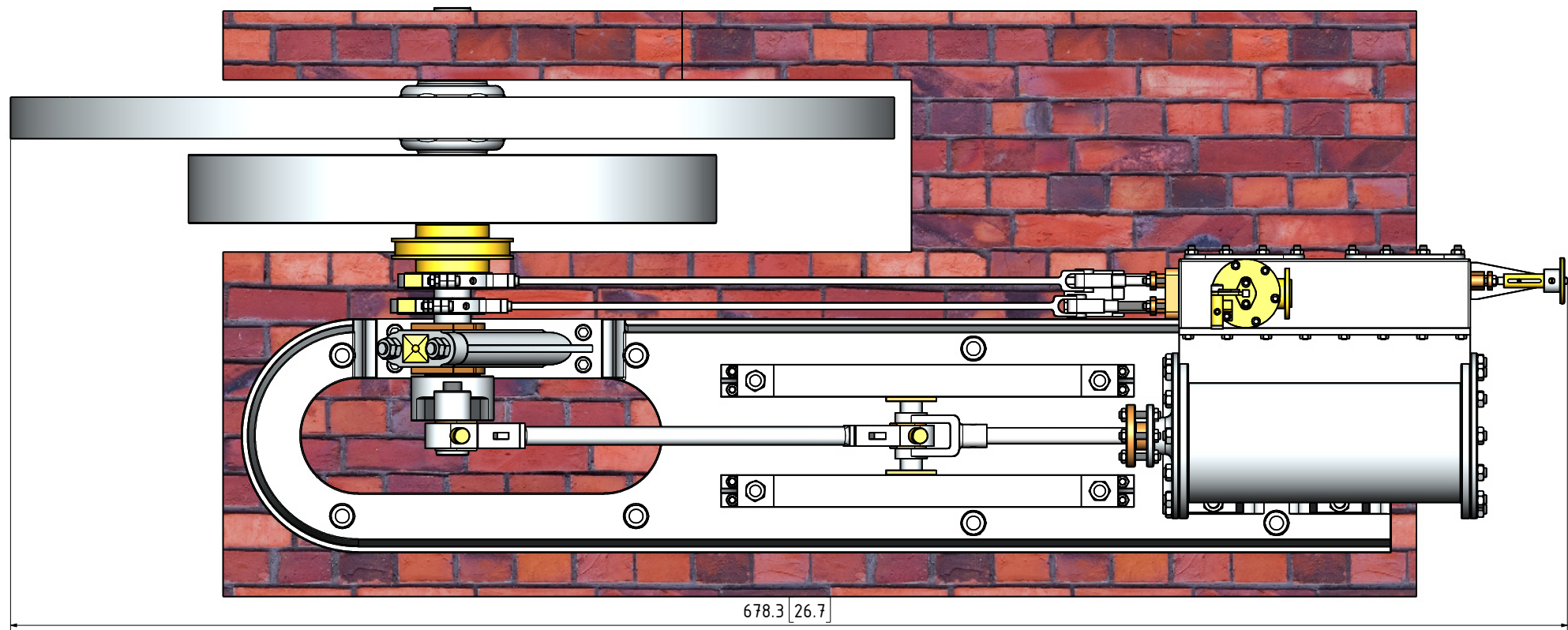
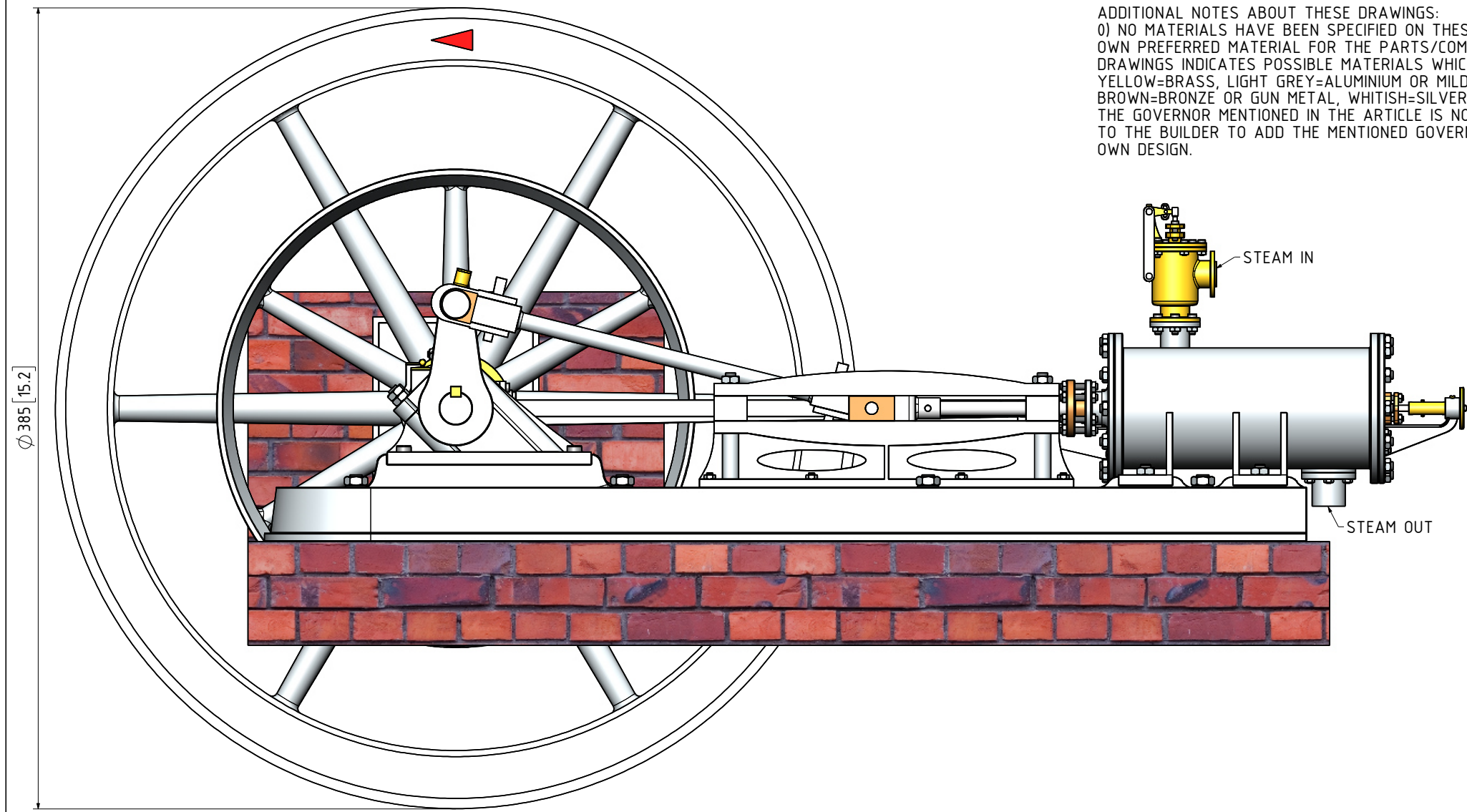




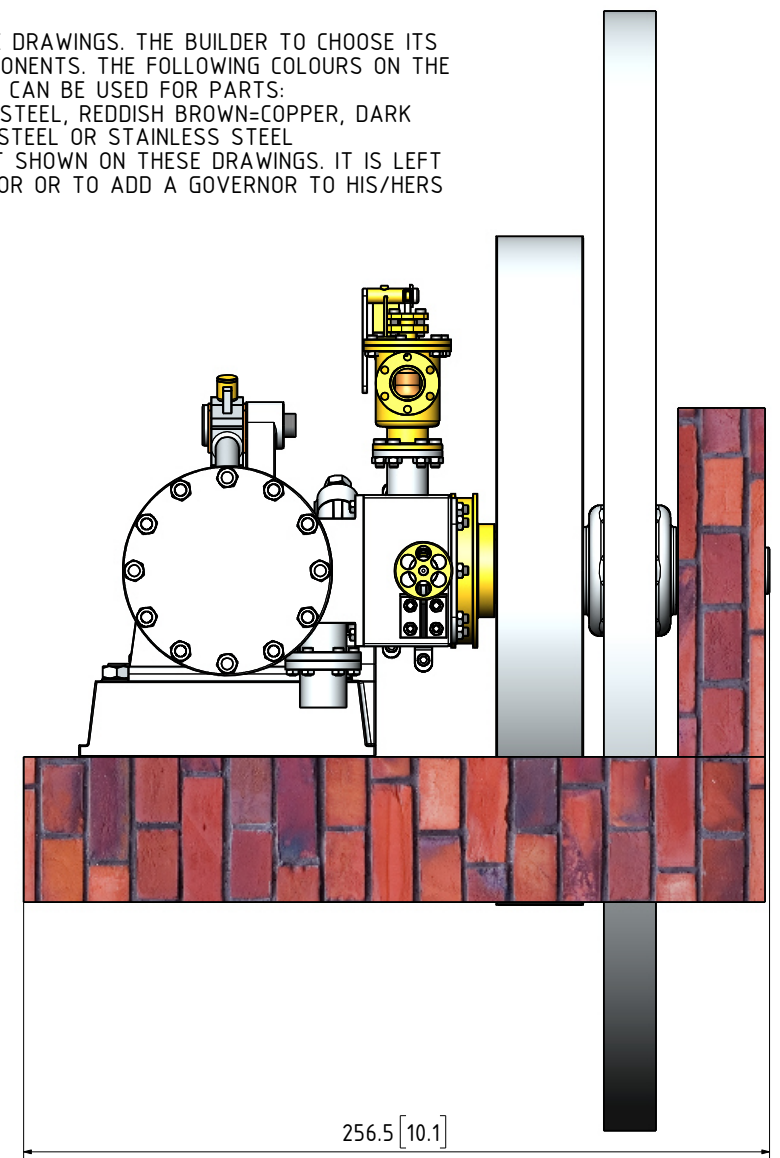
60-HORSE POWER HIGH-PRESSURE ENGINE.

WE give this week illustrations of a well-made 60-horse power high-pressure steam engine, capable of working up to 80-horse power, made by Messrs. Whieldon, Lecky, and Lucas, of Lambeth, for Mr. Charles Cadby's new pianoforte manufactory in Leather-lane.

This engine is mainly noticeable for its proper strength, and also for some well thought-out specialities; principally in the slides valves, having the ports of large dimensions and the back expansion slides easily adjustable while in motion. The cross-head guide blocks also move in recessed grooves, thereby being more protected from dust, and easier cleaned than with side plates. The engine is fitted with wrought iron shaft, crank, and connecting rod, also with Porter's patent governor, acting on a balanced throttle valve, with complete control over the steam. The bed-plate of the engine is box-shaped all round, thereby giving it the character of a girder, with great additional strength. It is altogether a good example of a plain, thoroughly sound, modern horizontal engine of good finish and economical working.



ADDITIONAL NOTES ABOUT THESE DRAWINGS:
0) NO MATERIALS HAVE BEEN SPECIFIED ON THESE DRAWINGS. THE BUILDER TO CHOOSE ITS OWN PREFERRED MATERIAL FOR THE PARTS/COMPONENTS. THE FOLLOWING COLOURS ON THE DRAWINGS INDICATES POSSIBLE MATERIALS WHICH CAN BE USED FOR PARTS:
YELLOW=BRASS, LIGHT GREY=ALUMINIUM OR MILD STEEL, REDDISH BROWN=COPPER, DARK BROWN=BRONZE OR GUN METAL, WHITISH=SILVER STEEL OR STAINLESS STEEL
THE GOVERNOR MENTIONED IN THE ARTICLE IS NOT SHOWN ON THESE DRAWINGS. IT IS LEFT TO THE BUILDER TO ADD THE MENTIONED GOVERNOR OR TO ADD A GOVERNOR TO HIS/HERS OWN DESIGN.



NOTES: SOME OF THE ORIGINAL DESIGN DRAWINGS WERE PUBLISHED ON THE "MODELENGINEERINGWEBSITE" WEBSITE. THIS ENGINE WAS ORIGINALLY BUILT BY MESSRS. WHIELDON, LECKY AND LUCAS, ENGINEERS, LONDON (NO DATE)												
TITLE A MODEL OF A 60HP HIGH PRESSURE STEAM ENGINE WITH 4 SLIDE VALVES. (B=48 S=100)				DRAWING CONTENTS GENERAL ARRANGEMENT, ARTICLE, NOTES			PROJECT No 09B-26-00 JDW DRAUGHTING SERVICES J.A.M. DE WAAL, 12 BRIGHTWELL STREET PAPA KURA 2110, NEW ZEALAND. PHONE: 0064 09 2988815. MOB: 0211791000 E-MAIL: dewaal@xtra.co.nz.		PROJECTION 	JDWDS	MODEL SCALE: APPROX 1:12 DWG SCALE: 1:1 @A3 OR AS SHOWN	
							DATE JUNE 2020		Copyright © J.A.M. DE WAAL PAPA KURA NZ			
							SHEET: 01 OF 07		A3	No: 098-26-00-SHT01		