Reactor Ferrum Primus

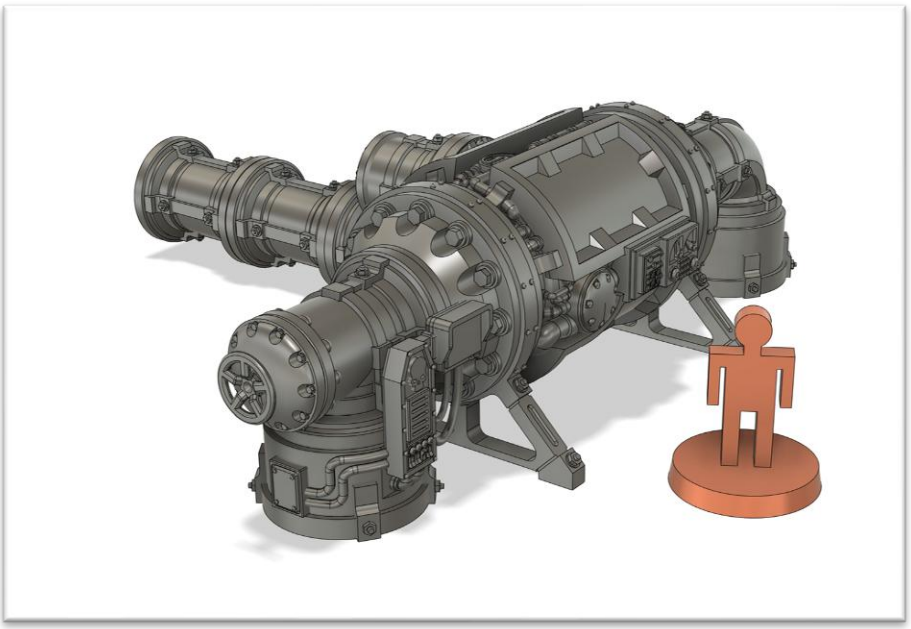
A selection of tiles to make a Tech Platform for your Wargaming tables.

The tiles allow you to build it in different configuration and sizes.

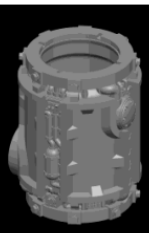
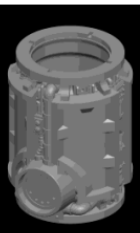
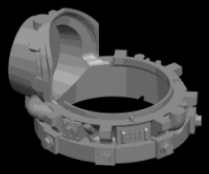
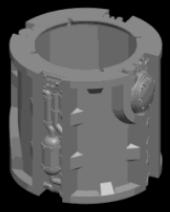
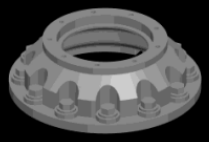
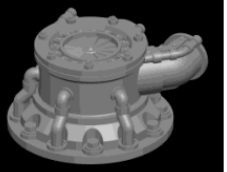
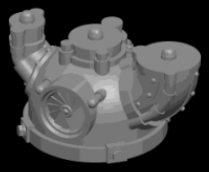
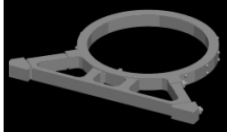
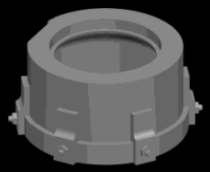
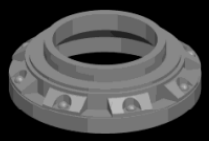
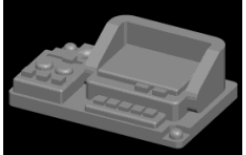
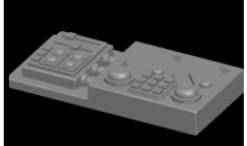


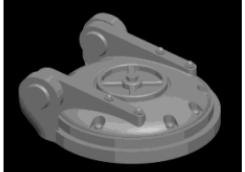
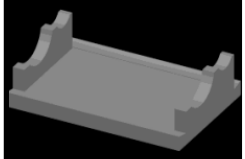
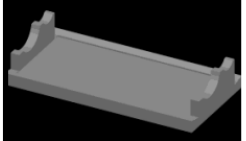
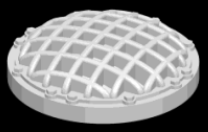
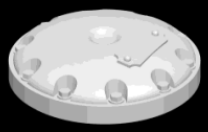
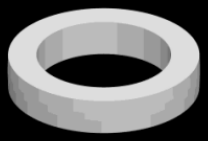
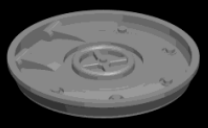
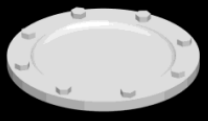
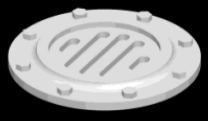




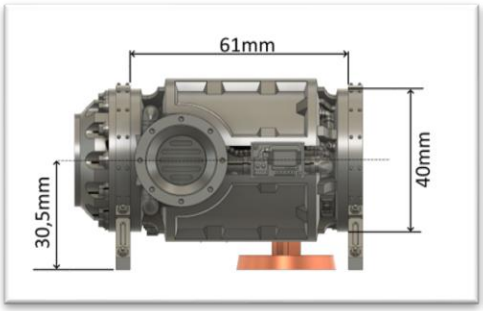


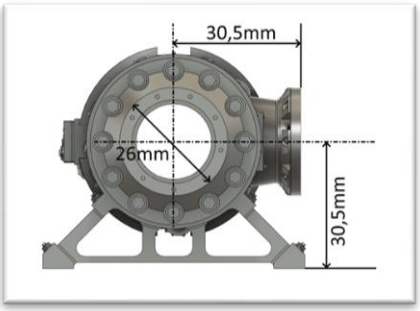

Overview parts

	Body complete		Body complete easier print		Body_P1
	Body_P2		Body_P3		Endcap
	Exhaust		Stacks		Exhaust 2
	Stand 40mm		Connector Ring		
	Adapter Pipeline		Spacer		Pipe Adapter
	Wellhead		90d Standard		
	Bit 1		Bit 2		Bit 3

	Hatch		Console Body Small		Console Body Big
	Grate		Bolted Hatch		Connector Peg 20mm
	Hatch Cover 20mm		Magnet Inlet 8mm Ball		ValveWheel
	Lid_V1		Lid_V2		Lid_V3

Size





The main Body is 61mm long and 40mm in diameter.

If you assemble it on the Stand_40mm the connection point is 30,5mm high.

It is made to be compatible with other models like the Half furnace which has a pipeline connection at the same height.

The Pipeline connections are made to work with the standard Pipeline.

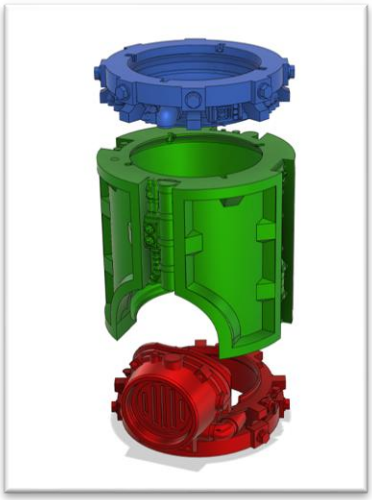
In order to lower the connection to the correct level use the Adapter_pipeline piece

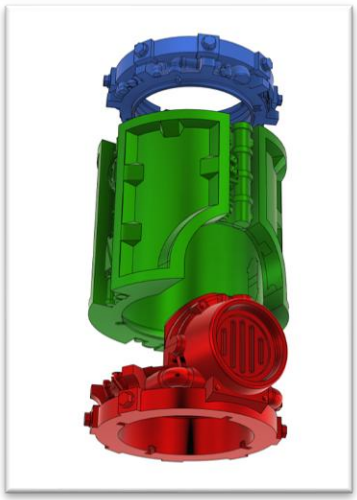
Assembly

Body

The Main Body is delivered in the Standard Version (Body_complete.stl)(left) and an easier to print version (right).

The easier to print version has changed to angles so that they can potentially be printed without support or at least with less support, but it looks clearly different.

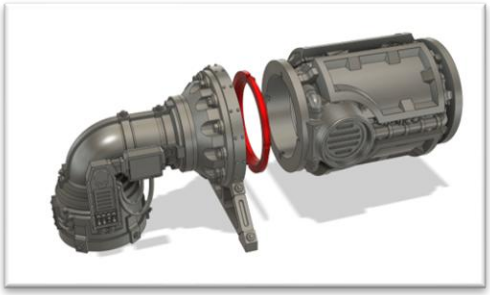
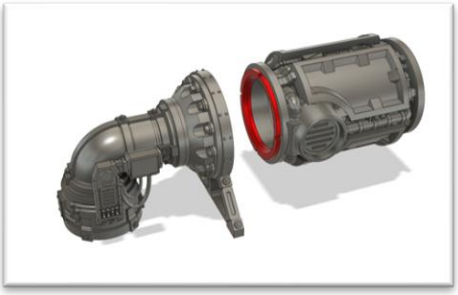




I added a cut Version of the Reactor Body so the parts can be printed (nearly)without supports and needs to be assembled afterwards.

I suggest to print the Body_P2 (green) and Body_P3(blue) upside down.

Connector Ring


The Connector Ring is used to align the Reactor_Body, the Endcap and the Exhaust to the Stand and make sure to lock it in the correct angle to one another.

It is not necessary to use but makes assembly easier.

Stand 40mm


The Stand_40mm can be printed flat on the printbed. It is designed to lift the reactor to a center height of 30,5mm. There is a little nub at the bottom that helps to align the connector_ring at the correct angle.

Exhaust Stacks



The Stacks fit on either the Exhaust or Exhaust_2 and there are little guide holes and nubs to align them properly.

The Exhaust piece fits on the 40mm diameter side of the Reactor

The Exhaust_2 piece fits on a 26mm pipeline connection and points upwards.

Pipe adaptor


The pipe adaptor ring has an inner diameter of 20mm and you can add either a Lid with a Magnet or use the 20mm peg to connect further pipeline elements.

Lid and Magnet Inlet



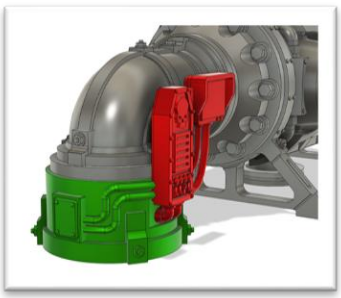
The Lid closes the open pipeline connection, you can add a Magnet behind it.

Console Body



The Console Body can be sloted into the gap of the armor panels of the reactor_body in order to add further details. The Bit_2 fits on the small console and Bit_3 fits on the big console.

Spacer

The spacer has a flat surface at the side where the Bit_1 can be placed. The Spacer lifts the Wellhead or the 90d pipeline up to the Pipe connection on the Reactor

Connector Peg 20mm

The connector Peg can be used to align pipeline connection and even allows to connect pipeline pieces with a friction fit.