Stirling engine drawings pdf

Stirling engine cad drawings. Stirling engine drawing pdf.

VINTAGE Cycle Plans Â «Vintage» is a 90-degree engine with horizontal cylinder cylinder cylinder and vertical power cylinder. Bielle for both cylinders we only one crank pin. This makes the construction and interesting movement of the auction easy. The engine frame (blue) is made of aluminum sheet, most of the engine's rest is worked by a brass bar or stainless steel. Most of the brass parts were nickel-plated, but this is not necessary in any way â € "only cosmetics for me! Vintage is a perfect energy source for the MISER motor. As such, it is water-cooled and a belt-powered water pump circulates the hot water through a ring on which you sit and returns through the engine again. This feeds the miser while the Miser becomes the Â «Radiatorâ» cooling for the vintage! Almost any other simple radiator can be used as a 10-foot ring of vinyl aquarium air pipes, etc.! Projects include the entire engine as shown, but with a more appropriate water pump than I used, a heating ring to operate a MISER motor and an alcohol burner (not shown). The only exception is a flywheel with rectilinear rays obtained from the full similar to that of the engines Â «Vickieâ», Â «4-in-1â» or Â «Beamer.â» An optional curved zinc alloy ray flying Shown on the photos of the engine above is available below from time to time. Vintage works very easily on a small 1/4 Â «1/4 Â Â« alcoholic flame or propane gas diameter. The set of planes is composed of 16 sheets of drawings and 2 sheets of construction and assembly notes. Specifications: flywheel Dia.: 3.33â € », hole cylinder: .5â €», piston race: .7â », Engine length: 6.25Â», Height: 4.5 »ã, ã, Level of experience: 6 Materials Set: (1) 5/8Â »Diameter x 1-1 / 2â» Long graphite rod to make piston, (1) 3/8Â »Diameter x 1-1 / 2â» Long RO D per Cross head, (1) 1 / 4 Â «Diameter x 2â» Long rod Delrin for bushings and small extremities Auction, (2) .187Â »ID X .375Â» OX .125Â »Thick precision ball bearings (1) 4-40 x 1 / 8â »Zipper head screw screw (1) 4-40 x 1/4Â» Stainless steel grafted screw. Set of materials sold separately. Â € œYou do a great job with prints and instructions, I've never seen better. "- Dennis Halverson (Moose Lake, Minnesota) Stirling Motors and Tin Plans can Stirling Motors, Stirling Beam Stirling Motors, Hot Air Motors , Stirling, Floors, Hot Air Motor Plans, Stirling Motor Plans, External Combustion Engine, Stirling Flat Floors, Hot Air Motor Plans, Stirling Walking Beam Engine, Sterling Engine (Oops!) Tin can Stirling Website Hot Air Stirling Engine Web Page Ã, email me by clicking here tin can stirling free walking plans free! Ã, really works !!!! Construction plans. No cost, no capture. For real! This site is here to help promote understanding of the principles of the Stirling engine. You are not here to "take advantage" of this information. So it is absolutely free! Plans, Online, Click under can can Stirling Walking Beam Motor Plans On Line (New and Improved Images) Plans Plans Word format, click under the tin purling flat planes flat plans of doc files in doc 158k format in pdf format, click below "tin can stirling walking beam engine plans in pdf format" how to time your engine if it is not in Execute correctly, click here again "Times of your engine! Coypright notice: My plans are protected by copyright. If you are thinking of downloading my copyrighted plans and selling them on eBay (or anywhere) keep it in mind, Ebay monitor for such violations. We will persuade the problem with eBay and in the courts if Nessesary. I allow people to see them and use them just to build a work unit. Not for your earnings from my hard work. The tin can discard the advice and suggestions of the walking engine on foot and suggestions includes: the new electric cylinder and piston The Haigh piston & "Keep that displacor!" Tips oiling how to pierce that brass Bolt down in the middle! Stirl engine forum ING Ã ¢ New! Click here This forum is for all types of stirling engines and "hot air", not just the "Tin Can" engine if you H HAVE a STIRLING engine you would like to show that you have done from scratch (any type), or maybe it has Interming to share it, let me know. I'll work with you to take a web page of yours. I just sent an e-mail! I sent an e-mail by clicking here no copyrighted plan please (unless you are yours). Compared to the rights of others. How does the tin work? This is an attempt to explain how this spillage engine works "on foot". How the tin works to deactivate if you understand the "Displacers" function, the rest is easy. What's going on there ?? Here is your answer also responds to "the amount of liquidation between the movement piston and the cylinder of movement and because" they want the whole thing !! Here are two different ways to explain how the entire engine works. Like the tin can enter the engine "Walking Beam" working partially animated (you can stop it as you go) or as the tin can ruin the engine "Range of the radius" of engine works # 2 The old version that many people have made this engine . If you have one, please send me an email and I'd like a photo to use on the page Do not miss the page at the bottom of the page Includes photos of work "The tin can still" even the videos of them work !! New designs or new new! The Robertson motor of Bernie Bowler Bowler Horizontal Tin Can Engine True Horizontal Tin Mais Engine. Both moving and the power piston that has been used a long time, but here is! I almost upset him! Take a look at "How to build a hot air-cooled air model" Photo of a stirling engine built by the popular science project of 1961 April 19 July 2005 Computerized Stirling Engine! Yes this engine is assisted by a computer! The new news update Stirling Walking Beam": the "computerized Stirling Engine" has undergone a catastrophic failure on its second run! Gordon Harris' design "The Gordon Harris Stirling Engine" Gordon Harris New "Two Cylinder" Engine "Tin Can Fitling" Engine! "The Air Special Duplex Treatment" Joseph Simone A PRENDERE ON THE "TIN Can Engine" with a new type ofCalled a "Ross Yoke" the Stirling Ross Yoke engine you have to see this operation of the drive system! Brilliant! Andi from the new engine of Germany Andi # 2 (new style) Click here new! Don't miss the bottom of the page of this page includes photos of working "Tin Can Pop Stirling" even the videos of them work !! I ask questions? Problems? Send me an email ... happy to give a hand !! The first time will always work !! Most of the time they do it !! To write to me by email click here Welcome to the Stirling of Flame room (Oops, this should be the hall of hunger? Or is it?) Darryl Boyd built in 1991? Ã, Gordon McCall built 2001 Sep 2001, Kevin Mansell built Nov 2002 Jim Kaufman built Jan 2003 uses an epoxy piston! The other uses a piston and a CYL. From a Rotohammer drill (concrete drill) like mine. Ã, Clay Pettys built around Mar 2003 "45 rpm on a small candle and about 115 rpm on an alcohol burner" Ã, ã, John Hermsen built March 2003 Here is a version that used some very different materials. Cris Lepage built August 2003 Ã ¢ Martin Nober built AGO 2003 ã, Tony Gardner Aug 03 (photo left) Tony used a "your video head like a bearing for the flywheel / crank that is beautiful and smooth". Ã, William Rushing Dec 2003, Arthur Hillier Arthur builds three different engines. A "full size", a "half sized", and a "a quarter of size" Ã ¢ Gunnar Aske built the nov 2003 piston made of epoxy! Ã, David Eaton Somerset UK Beam is about 6 inches, 1/2 inch boring power cylinder. Use a SPRIT lamp! Ã, Ã, Ã ¢ Neil Brawley built May 2004 to see more than the Neil project Click here including a video of it run! The Nyil Brawley can can work the engine! (With sound!) For users ie if you are using Mozilla 1.6 or older download and play outline or upgrade to Mozilla 1.7 Neil's Stirling Walking Beam Movie Movie 301K WMV File courtesy of Neil Brawley Real Player version 393K RM file AviÃ ¢ Player version 1.8 Meg AVI water pumper files !!! Gordon Harris built in June 2004 Gordon is an engineer in the United Kingdom. "The upper half is half of the aluminum filter with a laptop can welded JB down." "In the United Kingdom we can obtain a 28 mm copper tube or / de the piston was the top of the plastic of a prit stick (it has three ridges that seem to work as piston rings) that they adapted perfectly and seem to run better without lubrication". "The engine works very efficiently from a single night light candle, and with two night lights ago about 200 rpm." "Because it was what was originally used, I installed a simple piston pump. The piston and the cylinder from an old mamod, and using ball bearings for bicycles as inlet and outlet valves in the around the cylinder. Pumps again water With only one candle of night light, but runs faster with two. " Look at Gordon's race! (Video) Click here Stirling by Gordon Movie Movie 1.2 Meg AVI File Â Check Gordon's Design Gordon The Gordon Harris Stirling â Paul Wissgott built summer of 2004 SE England â–Add a weight based on the walking radius (hand crank side), this seems to make itsmoother operation of the engine (no speed difference). -Added another rod for the crank area to reverse the rotation of the engine, you turn clockwise as most engines turn this way. -The super heat-resistant glue was used to seal the head of the transfer cylinder, and the guide compass. (Thin Cyno 10 sec.) -Walking beams and main crankshaft made of copper pipe.The large end is made of brass on soft steel pin" "I haven't done it, but it might be worth experimenting/further thought If a lathe is not available the thick-walled copper pipe or brass can be used Â be the solution for the displacer guide bushing plugged on the outside and secured with two nuts. gasket with glue/weldingÂ" Â"My engine runs on a ânite-lite' candle but runs at constant speed on two nite-lites, solid fuel pads or a very flame small butane.Â" Two Cylinger Tin Can Engine!! "The Air Treatment Duplex Special" by Gordon Harris Built in August 2004 Gordon is back at work!! A two-cylinder tin mixing engine. He's driving a small engine that's used as a generator. Watch his "new" video of this car in action. Take note of the meter to which the generator is connected! Look at Gordon's second engine running! (video) Click here Gordonâs Stirling Walking Beam Engine Film 1.8 meg AVI File Ken Schmill Built in January 2005 He made two more! Terry Laffey Built in January 2005, he made two more! Gordon McCall Gordon is the first to send me a picture of his completed Stirling engine. Now it has completed a new engine with a water pump on it. Recycle the water from the tank. Now he's adding a cooling system to that pump. Click on the photos above to enlarge them. Look at that! Stirling Walking Beam Pump Plans New members of the Hall of Flames Donald D. Pointer Activation April 2005 Also built byDonald D. Pointer Slightly different approach to the can engine. This is this is Horacio Licera Argentina May 2005 You can contact Horacio by e-mail at the address With the latest modifications it works at 120 rpm. Joseph Simone 150 rpm on sternum and fresh ice water Joeâs Stirling Engine Movie 5 meg AVI File Darren Shabley Completed July 2005 Ridgetown, Ontario, Canada "It's quite big being 27" tall and 21" long. (note the size of the Zippo lighter at the base). I am very pleased with my first attempt with a hot air engine. It works perfectly quietly and up to about 180 RPM with heat from a charcoal oil lamp. Here are the details; The displacement cylinder consists of a diesel engine oil filter. The cylinder and piston were taken from an old shock absorber. The flywheel / crank comes from a cleaner of the air of an agricultural tractor The bearing It is a valve guide of a diesel engine with oil hole there are ball bearings inserted in the end of the connecting rod that I found in a hobby store. No processing was requested, only a welder, grinder, drill and a set of faucets and molds. Ã, Ã, ã, the engine can be completely disassembled for any future changes.â € ™, by Darren Shabley Terry Koller Made in 2003 Check out Terrys Website at Terrykoller.com Rex Rex Ã, (Swan Hill, Victoria, Australia "down below") Built 2005 "The Air Wonder" Main points. The displacement piston is made with can of Chinese coconut milk. This is the only pond that I could find in the supermarket that didn't have a ring. However, being a liquid, suspect it was easier to empty the tomato paste version :) Power cylinder is 1 "External diameter of the copper diameter (Specs Aussie) Power Piston is 1 aluminum rod activated on a lathe . The connection rods are all bronze welding rod. The connection eyelets are all "round electric terminals" then clinged welded to auctions. The main bearing is from the video recorder head according to the idea of Tony Gardner on your web page. Simple and works a pleasure. Specifications. Almost runs on a night light candle. 64 rpm on 2 bright night spark plugs 200 rpm on the spirit heater. (Old Kerosene Lantern prerisa Mater) Things I can do in the future. More heavy flywheel. I suspect the light version of the Plexiglass I have losing a bit of its Flywheel effect. I can connect a pump or a generator etc. As it's fantastic when these engines are actually doing something. ... and obviously "Build another" Ã ¢ :))) Roy Shepherd built 2005/2006 main points of the United Kingdom. The shift piston is made from a felled bear can; Mover cylinder A bean can; Firefighter box One meter and the water tank is a sponge pudding can. Length 48 cm; Height 36 cm. The power cylinder is 1 cm aluminum tube from B & Q Power Piston is made of polyester laminatis resin. The connection rods are the coat of coat hanger, apart from the piston bar that is copper wire. The connection eyelets are all the male electrical terminals cling then welded to auctions. The main bearing and the fly wheel come from a floppy disk unique with a reapplied CD to it. Specifications. Turn at 110 rpm on a homemade spirit heater. How to make the power piston. I got a length of the 1 cm aluminum tube and blocked an end with a wooden peace with a small hole in the center and threaded a length of the copper wire through it and out the upper part of the tube is used to connect The piston piston. Then mix the hardener with the resin and took it to the tube. When the resin went to the head, facilitates the piston from the tube and clean the edges with the glass paper. Slide the piston through the cylinder a few times and then it will be ready for mounting. You can get the resin and hardener of Laminatins Polyester from car council shops Roy Shepherd United Kingdom More photos Photo1 Photo-Ã ¢ Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã , Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, ã, â â â â «Bill" Bill "Jackson ã, I love to weld (as you can And I built the base frame out of the rigid copper pipe. Initially I had considered the construction of the whole unit on a single stem and a flat of the foot – but opted for the easier construction of 2 pieces – one section to hold the main engine of the engine and the other to hold the fly wheel and the pivot of the beam. This allows minor adjustments in alignment. "Some aerosol cans have recessed rims (figg.1) – the bottom from a second can represent an ideal plane for the displacement cylinder and was easily removed removed An electric opener. I welded a brass tube with 1/8Â "ID is, through this upper part to accept the 1/8Â" displacement rod (Fig 2 & Fig 3). After a poÃ, accurate adjustment of the upper edge of the cylinder, this top adapts perfectly and there, built-in area provided a large coupling surface for a narrow welding joint (fig. 4). Figure 5 shows the mounting and the water shirt completed â € "Notice that a slightly larger brass pipe piece was welded above the bearing tube and flared to welcome the oil during engine operation (Fig. 5-A). Figures 6 and 6-A respectively show the front and rear part of the motor completed. The beam has been cut from 1/19 aluminum and the piston is epoxy (JB Weld). Although I tried numerous other pistons, this seemed to work better. The flywheel is a combination of a driving flange recovered from a fault vacuum cleaner and the bronze flying / bearing combination of an ancient video recorder (my wife is always asked as ever I have kept these objects â € "and many others â € "Over the years â €" to build a stirling engine!) Ã, I use an alcohol bulb for heat source and get about 150 rpm. My first prototypes with wooden supports and flywheel in plywood did not work well â € "so, my hat goes to those who have been able to operate such a motor. Additional photos Fig 1ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, fig 5 Ã, Ã, Ã, Ã, Ã, Ã , Ã, Ã, Ã, Ã, Ã, Ã, Ã, fig 6 Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã , Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã,ã, Ã, Ã, Ã,ã, Photo 3ã, Ã, Ã, Photo 4ã, Ã, Ã, Photo 5 Doug Simpson Movie Movatian format and 4 Megs Terry Keathley built Feb 2006 Jani Pekkanen built May 2006 Finlandâ € "Becoming a nice decoration on my desk â â â â« runs on a single night light candle about 65 rpm and with three candles about 195 rpm. Now he has six burners on a flame butane. The cooling takes place via a damp cloth. The piston consists of a 20 mm plastic tube (used for driving and the protection of the electric wire of the house). Moving cylinder is more light butane to recharge can. The layout piston is crc lock oil can. The bearing is a CD-ROM motor. "Video of the Jani engine running from the start! suppa tony Â «I used the rubber end of the drum brake cylinders and put them in silicone on my main heater.â € photo5 Ã, Ã, Ã , Ã, Ã, Ã, Ã, photo6 Ã, â â â â â â â â â â â â â â â â â â â "In this way I can disassemble the unit in a few seconds to explain to everyone how it works. (But they never understand really). "" I turned the piston and I made a connection arm from a hanger. to use everything I had in my house, just to show people that an engine can easily be done home.â € â € Ã «It really comes out when not there is the some water. I have an average of 210 rpm.Â" photo3Ã© foto1 Donnie Barnes Stirling engine and JB welding power piston. I used a VCR head for the flywheel bearing, and the beam and bracket came from an aluminum shelving I had around. I'm going to install the fireplace tomorrow, but I had to try it this afternoon.Ã© Ã¨¨¨ And it worked!! JB Weld Piston! Tim Tim Tim Built DEC 2006 "We used two candles for the first time to be able to power it, but I found the Sterno worked better. We thought of trying a tank from a propane torch for a moving cylinder instead of paint can be as long as possible. " Tim Oaks see Tim's Molo engine Click here MOV File 1.2 Meg is not a "walking pass", but!!! The first true vertical motor of this style Donnie Barnes Nov 2006 "The displacement cylinder is an insect spray, 7.5 x 2.5 inch and the displacement is a "Reddi WIP" the whipped cream of the whipped cream can 2 1⁄4 centimeters in diameter, knocked down to 5 inches high. Â The power cylinder is â€ â â€ â â€ â â â â€ â â â â â â â€ â â â â â€ ID Aluminum pipe with a Weld JB piston with a JB welding piston.Â RPM is about 325 using the Sterno fuel. "Speed with the times and seem to get the best rpm with the power cylinder adapted to about 125 degrees before the upper dead center of the shift. This time I tried the cooling fins this time. They heat up but do not seem to hurt the speed of the engine. " Donnie Barnes Photo 2 â Ã â â â â â â 3 film cinematographer motor running 2.9 Meg WMV File John Dewele "I Volontariato at San Diego California Poway railway station. We have a knight's Stirling engine that had to be restored so we could call to see if I could. We discovered that in 1900 they used the ironing to pump water to the water tower, so when the steam engine turned, download 400 liters of water in the train. We worked it out and we would run Your tin can iron out a few steps for a better understanding of how it works. My next project is to get the water pump that worked on the tin can ruin. The tin can ruin run on propane with a 2 inch flame at the end of a 1⁄4 inch at the end of a 1⁄4 inch tube within a reducer from a torch. " John Dewez Tooling / Machine Designer retired â from Hewlett Packard SD Â Wayne Brown Feb 2007 Movie of Engine Running AVI FileOne is 3/4 scale. My flywheels are wheels of the pavement scooter with ball bearing from duel. I added weight to the pin to balance the displacement cyl. It seems to help smooth everything out. It also works much longer after the heat is taken away. Wayne Brown Glenn Pfortmiller Jan 2007 Photo # 2 Â Â Movie of the running engine (WMV file) completed in January 2007. The cylinder is a brass tube for about 1"diameter and the piston is corian. The rocker arm and the flywheel are also corian. The hot and cold side is separated with a cordonic base and has proven to be a good insulator. It will run in a room from 70 ° f, unlimited time, without coolingfrom free air cooling. It will keep warm But you can still put your hand on it without burning. Glenn Pfortmiller Kansas Anti from Germany Mar 2007i found this one enough that relied on to give ANDI its web page. Thank you ANDI! ANDi's Page Click here ANDi's New Engine #2 (new style) Click here New! Oliver Cribb Grade 7, (13 years) Johannesburg, South Africa April 2007 Bearings were taken from a computer CD drive with an old cd like weighted fly wheelnuts around the edge locked up with pre-stick.. The supply cylinder is a 22 mm copper pipe and its piston made of epoxy. The connections are crimp wings spaced with washers. The moving rod goes through a brass bolt with an aluminum ferret to give a better seal. I did it in just two days during my Easter break. The best speed I got from it was about 200rpm and it was very pleased that it ran for quite a while even after the heat source was removed. Oliver's Movie Click here 2 Meg AVI File Matt Engelber June 2007 He took the wheel scooter Idea from Wayne's design, but used an old roller blade wheel, bearing, and axle which I got from a used sports goods store. I removed the bearings shields and drained the grease using WD-40, then replaced the shields. The bearings rotate very freely once the grease is out of them. Movie of Matt Jeremy Zimmermann Dec 2007 Jeremy is from Germany! First for 2008 Jeff and Colin's Project "My 8 year old son and I were looking at your web page and were inspired to start building an engine. We used a 3/4" copper pipe as a cylinder, and a piece of nylon turned on a lathe like a piston. 0.032" musical wire was used as a wrist pin. The displacement piston is made of a V8 aluminium can, which is much lighter than the waterproof version. The piston rods are made of carbon fiber. The crankshaft has two 'logs' to get a bigger shot on the displacement piston. Flywheel is made with a rusty steel washer 1/4 inch thick mounted on a hard drive hub which has nice bearings. The height of the base is adjustable for different height power sources. It has been running for several hours directly on 2 tea candles lite. Still no cooling jackets, like we're waiting for Mom to make us pumpkin pie. The pumpkin can only seem the right size." Go, Mom! Good job! AVI Movie by Jeff and Colin's Engine Running Click Here 1.7 Meg Tom Burns Built March 2008 After visiting your pond can stir engine site, I just had to go out into the workshop and have a go. I used a bean pond and a small tomato pond for moving, the information on your [site] was very helpful, the engine works fine on two candles. I was an Engineer [retired] and will spend many happy hours doing pond can engines. - Tom Burns. Tom's Movie Click here 15 Meg MOV Doug_ Mahaney built in April 2008 See Doug's website on this engine at with movie, and generate some electricity with it! No name was sent with this... Sorry Built in April or May 2008 "It started with some plans from another site and modified according to some of that we have seen on your site. won several awards for the science fair. here is a link to the video youtube if you might want to connect it to your site. the piston is your design, the displacement cylinder is a design mix and we either hung clothes for connecting rods and old cd for the flywheel. we found that at first would not turn until we added to the meter weightdislocator on the beam. "Naughty child on the seed hypothesis." We have about 67 laps on the stove. It would turn a few times when hit with the sunbeam. The angle of the heat beam from the solar collector did not hit the bottom of the can square enough to get the engine going enough. I think we should try a horizontal version or a rotary version to get the solar power to really give some RPM." Video of UTube by Dr. Dinesh Anvekar, Bangalore India Built June 2008 Features:- * Carton Flywheel * Epoxy (M-seal) feeding piston * Displacement cylinder made with two copper cups attached to the open ends * Sealing material and silic sealant one used for all joints * Epoxy (M-seal) used for water protection and other joints * Coke can be dislocated * Bicycle hairdresser and flexible wire used for connections * The heat source is the laboratory spirit lamp Operating speed: 120 rpm Film of the engine above Tim Shirah built July 2008 I used a carpet cleaning can for the displacement cylinder. I had to use a Dremel tool to remove the top because a can opener didn't fit the curved shape â it looks like a spray paint can have the same problem. The small condensed milk can be used as a piston dislocator is really a bit too tight. Sometimes it touches the inside of the cylinder as it moves up and down. The door bearing I used to mount the flywheel of my saw has too much play, causing a slight wobble. I didn't do enough to keep the heat insulated from the drive cylinder. Even when the engine is running at its best (about 115 rpm), it stops after 2 or 3 minutes and the epoxy piston is attached to the copper cylinder. I found that the JB Weld epoxy is easier to use for mounting the cooling can (I used a can of yams) than soldering, as this section never exceeds 600 deg F, the working limit of the epoxy. The copper coupling pipe I used for my drive cylinder is used to connect the 3/4" copper pipe and is therefore larger in diameter. It also has a slightly thicker wall than the joining pipe (by force of coupling). I bought a length of 12â to cut for the cylinder. A shorter joint was used to launch the epoxy piston. Other photos (click on the photos for larger view) Video Of Engine (youtube) Dominic Eppolite Dominic is probably the oldest person to build one of these engines. A note from Guy Borghi, one of Dominic's friends, "I thought you'd be interested to know that there are fans of all ages who have built and run the Tin Can Stirling Hot Air Engine. My friend Dominic Eppolit has built 3 or 4 of these engines. I have two of them that you can see the photos of the attachments. The unique thing of Dominic built them at the age of 92. I don't think there are too many guys out there who have the ability to put together and run one of these machines at that age. Dominic "go to be with the Lord" in May of this year, shortly after he was diagnosed with leu He was a resident of the Quarryville Presbyterian Retirement Community located in Quarryville, PA.He loved to build things and many of them were his inventions. On March 2, 2009, the Lancaster Intelligencer Journal published an article about Dominic's life.I also included a photo of the cutout of the article in one of the attachments, where it is shown standing next to the lighthouse he built.The article refers to several of the projects that Dominic built and/or invented. Read the story about Dominic Click here These are works of art! A 92-year-old man who shared the enthusiasm created by the construction of the Tin Can engine. Dominic Eppolite (92 years old) was built in February 2009.Ã© Ã©©© Read the story of Dominic Click Here built Rob Kay Aug 2009 New Zealand I used a brake piston (green anodized!) that fits perfectly inside the 25mm copper pipe. I used a can of tennis balls for the dislocator and a small can of baked beans for the dislocator piston – it was hard to get the beans out! After the first races I used a small bearing for the flywheel and the improvement was great. As you can see I used penny washers for the rod pins as I found it quite difficult to shape the rod end to a good figure. I just flattened and punched a couple. Initially I welded the legs to the combustion chamber, but the welding melted so I riveted some. I use the engine with methyl alcohol (denatured methyl alcohol) because Sterno is not easily available here. Rob Kay Nelson, New Zealand Rob Kay built Aug 2009 New Zealand I used a brake piston (green anodized!) that fits perfectly inside the 25mm copper pipe. I used a can of tennis balls for the dislocator and a small can of baked beans for the dislocator piston – it was hard to get the beans out! After the first races I used a small bearing for the flywheel and the improvement was great. As you can see I used penny washers for the rod pins as I found it quite difficult to shape the rod end to a good figure. I just flattened and punched a couple. Initially I welded the legs to the combustion chamber, but the welding melted so I riveted some. I use the engine with methyl alcohol (denatured methyl alcohol) because Sterno is not easily available here. Rob Kay Dale Hoerner Built Dec 2009 Well, I just had to send you a picture.Â¤ The damn thing works.Â¤ The power piston is epoxy. The fire box is A can of spaghetti sauce.ã, all the bars with 3/32 brass rod., the main bearing is a sleeve and auction from an old DVD player (not the engine) .ã, with a candle of tea works at about 60 â € "75 rpm depending on how everything is regulated well.ã, I have a little too much friction in power power And in the displacer sleeve. But it was definitely exciting when it worked the first time! Dale Hoerner Morteza & Mohamad Salimi built September 2009 Gen from Denmark Some links (films and photos) ã, http: / /s280.photobucket.com/albums/kk189/speedless/stirling/?action=view¤t=pict0027.mp4 ã, Keithe Campbell Built 2010 Cylinder copper , polished Ã, power piston - lathe factor, .002 under cylinder bearings â € "from old vhs push bikes bikes reader â €" from the heat source of the vhs-can reader of the lower water in the can Superior, Piston Displacer â € "made of balsa. Time settings â € "Servo Equipment arms RC Mike Mathrole built in 2008 I stayed pretty close to the projects but I fooled a little and I used my metal lathe to make the piston. I also used ball bearings on the main pin for the travel beam, the wheel and the connection rod on the wheel, the other pins on the travel beam are brass bushes for regular operation. Our «new» additions! Tony Cunningham I built this engine strictly taking care of your design criteria except for the following points: - 1. The upper part of the displacement cylinder is not welded. I used a rubber seal instead. This allows access to the displacement device. 2. I also used a rubber ring gasket Â «oâ» between the container of the water jacket and the displacement cylinder. The water jacket container is smaller than your original design, just because a larger paint can was not at hand at the moment. The execution time is limited, confirming the design criteria. I inserted aluminum strips folded to dissipate some heat. 3. A photo is attached and all other differences are purely aesthetic. It works very well, easily reaching 100-150 rpm with a small burner. I miss the ability to make films, but I managed to put a short video on YouTube, if you are interested in seeing an example of your work. This can be found here: Ã, Ã, John Gardiner built at the beginning of 2011 had scrap aluminum angle around. I like working with it ... so I did the structure from it. Made all connections to your exact sizes from 1/8 of welding rod, with the exception of the small connection 1 1/2 inch (joining the beam walking at the movement rod). This did it with aluminum scrap that I had at hand. I drilled several adjustment holes in it, then used a small bolt to connect to the beam. However I added a regenerator that has improved performance That's what I did. The displacement was made by a PVC metal plastic jar... easy to find in Home Depot. I cut the protruding top and welded on a new top of tin. Afterwards, I got the 3'x 7's aluminium window screen. I did not remove it from its plastic packaging film.... but I rolled back the film only about 4" from one end.... measured the length of the device. . Tap the screen on both sides of my intended cut and cut it (with a cutwheel in a makita 4" grinder). Then I wound him around the periphery (outer surface) of the displacement ... had to cut maybe 2 turns off to allow him to pass through the lip ... sealed the free edge with JB, The attached set up, then secured with wire, top and bottom, for displacement of the displacement bar and off he went. Improved performance immensely !!!!!! Rob Johnson built summer 2011 continues to run smoothly ... and have turned on to a few friends who are also "build" .... that's what I did that works incredibly well is to use what is called harmonic wire (very very small diameter steel bars are available in hobby shops for about 25 Â"So instead of the bolt, I drilled a 3/8 inch hole in my top and pushed a black rubber stopper (available at the hardware store for about 40 cents) from the inside.Â Once inside, it forms a perfect seal neat and almost unmovable. A small hole drilled into it for the piano wire and a touch of 3 in an oil and it's practically friction-free and completely Air Tight. Ã¨¨¨"My JB welding piston is a great fit (after a little delicate grit very careful). Next time I would prefer the aluminum suit thing though ... Stirling motor of the walking beam! Bob Hammell built in the summer of 2011 Dan Pickard built in the summer of 2011 Vikram Vicky from India built in the summer of 2011 a lot of people made this engine. If you have one, please write me and I would love a photo to use on the page variation on a theme! Not "Tin Can Walking Beam" Engines but still "Master Pieces" John_schedler Built Aug 2009 -Base Size 14 "X 14" -Intene a 5 "High -His High -his Engine Written from chafing fuel. - All joints are silver brabaid – cine is a regenerator in this engine. -The eccentric crank has a hole in it to accept a transmission shaft and will have a small fan blade mounted on it. -The piston is machined and measures 1 1/16" in diameter. -String is 2 3/8" -Cylinder -Slacement to 3/8" is a can of Lysol with standard tomato paste can inside. -Ar-cooling provided by aluminum mattress damards fixed by clamps for tubes. Cooling capacity far exceeds the requirements. -Running rpms: 140 – 160 This The engine will run for about 3 hours from a fuel container for gafting. The construction time is about 55 hours. Tolerances are close and this engine is extremely quiet. Mackerel with sewing machine oil. This is John Schedetter More photos Photos # 1 This is Photo # 2 Richard Dales built the power cylinder January 2008 is a 15 mm copper water pipe. The power piston is JB welded epoxy c.350 ° C?) The crank is a cd coating crank, centered on the crank using high screw from the toothpaste tube. A small coin balances the fly against the weight of the displacement cylinder. The expansion and displacement cylinders are Guinness cans in aluminium. Small pieces of steel were used from the top of an oven torino were used for the three points where the wires pass through the holes. The three alumi The nium cans are cut with Stanley ruler and knife, or scissors whereBy rubbing the inner edge of the hard cutters against the vegetable chopping board with a teaspoon I found that each can be easily pushed into the next. A little bit of JB welding ensured a good seal. The lubrication used was olive oil, but the seed or hair oil would work better. Richard Dales Matthew Shippee built the 2009 while this is not a walking radius Stirling, I could never have worked it without information from your site and plans. There are also several videos on YouTube (MrWeaseluv) that you might like to connect to (3 Â° and the best video will be up Tommorow with a little luck) Ã¢ and a word of advice to new modelers, a ball bearing in the corresponding bearing tube A great hermetic power piston: D (attaching the c Pipe pad is the fun part Hehe) is Matthew Shippee Paul Maciulaitis New Zealand here is my biggest version of your tin engine. It still needs refinements such as better cooling afterwards. The power piston cylinder and crank was a 2HP-Briggs and Stratton I adhering the Teflon gland packing for rings and punctured the candle hole and mounted a fitting for 1" tubes. The displacement is an old air tank and the fireplace is a piece of the Fireplace Stainles Almost all the bearings are wheeled, goes at about 50/60 rpm. Here's a link to be running on Wood Kingling Anyway, thanks, the little is still going well, Paul Maciulaitis is we are cooking now! The magnificent works of art !!! My only shop bought the engine. From Solar Engines Phoenix, Arizona © 1999-2005, Darryl Boyd, Â© All Rights Reserved. Â© Permission is not given to reproduce or sell photos or plans Written permission to write me click here