

Chapter 1 : How wasp and bee stinger designs help deliver the pain

The Waterjet Stinger is the result of this equipment development effort. To plant unrooted cuttings successfully, the bottom of the cutting should be placed about in into the lowest watertable [sic] of the year.

Despite material availability obstacles, stringent welding requirements, and massive pipe cutting needs, Stinger Welding and the design team it worked with pulled off a winning pipe bridge design in six months. In an Arizona match-up between concrete and steel, metal edged out the competition. This contest started in July when a design team began discussing the Tempe Town Lake Bridge, a critical link in a mile light-rail public transportation system see "Light rail: How it works" scheduled to start running in December Artist Buster Simpson recalled that the meetings were intense, with advantages and disadvantages of the proposed concrete box beam trellis bridge abounding. Although the engineers were obligated to continue developing calculations for the trellis bridge, they also wanted to explore a new approach involving a triangular truss, a design that everyone felt would be a good integration of art and engineering. By August the decision was final: A steel truss bridge was the better option. It was a true representation of bridge engineering; it was cost-effective; and it was elegant. All of this was especially important because the bridge would run adjacent to an older, historic bridge see Figure 1. According to artist Buster Simpson, the historic commission saw the steel design as the better choice over concrete because it would pay homage to the adjacent historic railroad bridge left. First, this 1,foot-long, span structure connecting central Phoenix to Mesa was to be constructed of steel pipes, which in itself is somewhat unusual. And so an interesting pipe fabricating journey began. Stinger Welding, an 8-year-old company that began as a mom-and-pop repair shop especially for farmers and irrigation professionals, now specializes in expansion joints for bridges, as well as pedestrian, vehicular, and rail bridges since the company attained its American Institute of Steel Construction AISC bridge certification. So when bidding started for this project, the company saw it as a good fit. But once Stinger started working with the rest of the design team, it became apparent that quite a few aspects of the fabrication would be challenging. To name a few obstacles: They also would have tacked 20 percent to 30 percent more time and cost to the project. Required for code, open-root welds had to be made out-of-position without backing. Welders had to be qualified to make these welds first, and out of the 20 welders Stinger tested, only six could be qualified to make them. If any rework was necessary, it was limited. Only two reworks were allowed on each weld joint. Gardner quipped that this bridge was made of "unobtainium. The lead-time for A was at least one year for several of the size and wall thickness combinations. Sources would often not quote some sizes at all or would require a huge mill purchase for each size and wall thickness. By the numbers 2: Sections per truss that were constructed onshore before being erected by floating barge cranes 9: Y-shaped concrete piers that support the bridge Tube diaphragms connecting northbound and southbound spans Disk bearings floating the bridge on the abutments and piers Length range, in feet, of each truss Cross braces between top chords Slip-critical bolted flanges connecting the trusses Diagonal braces between top and bottom chords 1, Pounds of metal-cored wire used 2, Complete joint penetration CJP open-root welds 3, High-strength structural bolts 9, Pounds of solid wire filler used in SAW 37, Weight range, in pounds, of each truss , Gross weight, in pounds, of each light-rail car "It was a big challenge to make sure we could secure the material because of supplyâ€”a lot of it was going to China, and the prices were escalating," said Dan Heller, P. By contract, the bridge was to be fabricated in six monthsâ€”including material receipt. Eventually the Federal Transit Administration approved the use of imported materials for two size combinations, which, before purchase, were subject to on-site inspection by Stinger to verify dimensions, form, and traceability. Figure 2 Simpson said the design of the triangular truss bridge contributes to a pattern language with the existing three bridges that traverse Tempe Town Lake. Another aspect of this construction that at first might have been considered a hindrance actually was a benefit: To optimize structural strength versus weight, meet budget, enable transportation to the work site, and enable a modular erection, Stinger fabricated the bridge in segments. Although this may sound like another challenge, Gardner said actually it was just the opposite. Lin decided on the segmented fabrication method as a way to help ensure the bridge would be fabricated on time. Invited for an interview and to make

comments and recommendations by T. Lin, Stinger Welding eventually helped write the welding specifications. Because Arizona generally uses concrete more than steel, Stinger helped educate others on the team about welding and came up with the majority of the weld design. Before the welds could be made, however, a lot of pipe cutting was necessary—which created its own test for this project. These dimensions made the pipe cutting programs for each pipe vastly different. The cuts had to be made just right for weld fit-up, so tolerances were tight and room for error was even tighter. Normally, fit-up is done by hand in the shop with shop drawings. That would have taken many, many hours to do each one. It would have been a challenge for someone in the shop to figure out all of the angles. Instead of producing shop drawings by hand, Stinger Welding opted for a more automated approach: The trick was to find the right pairing. This machine was designed to accommodate pipe from 2 in. It offered five axes of simultaneous computer control. Although Stinger chose to work with Vernon Tool because it was the only company that they felt could get them a machine when they needed it, Stinger had a tight schedule to stick to. So for the three weeks it took for the pipe cutting machine to be built, Stinger sent blanks and operators to Vernon Tool so they could cut the pipes on the demonstration machine. As the operators began to use their new pipe cutting machine, however, they realized that their original CAD program was not compatible with it. Quickly Stinger and Vernon Tool worked together to create a specialized 3-D program that would handle the various angles necessary in each cut and communicate them to the machine. And then they had to calibrate it frequently," Aboul-Hosn said. According to Gardner, the integrated system consisting of specialized CAD software, a firmware interface, and CNC thermal cutting equipment cut and rotationally aligned the pipes, beveled the included welding angle, and cut each diagonal to length, allowing for root openings within 0. Stinger Welding used gas-shielded flux-cored arc welding FCAW-G, gas metal arc welding GMAW with metal-cored filler metal, and submerged arc welding SAW with solid wire filler metal; stud anchors; and bolted connections to fabricate and join the subassemblies before they were zinc-primed and transported to the work site see Figure 4. Finally, quality control was critical. In some areas, this meant adding extra plates. But in all instances, nondestructive testing was mandatory. The diagonal members had to be joined with open-root complete joint penetration welds in accordance with D1. Ultrasonic testing was the examination method of choice because X-ray could not be applied to these joint configurations. It was a challenge because we had to positively ensure that we could always detect very small indications while at the same time be able to gate out false indications, plus ensure that we were effectively differentiating between the two. All of the joints had fairly straightforward inspection requirements—except for the open-root welds on the diagonal braces. During careful carbon-arc gouging, no inclusions of any kind were found. One ultrasonic technician applied some-by-the-book theory, performed some calculations, drew some sketches, determined the cause of the nonexistent indications—geometric reflections—and trained the other ultrasonic techs in interpreting and eliminating this nonproblem. Simpson has been on-site for this process and, despite the fabrication challenges, sees that the artistic vision for the bridge has been accomplished. They have a yin-yang kind of look. How it works Light rail is a form of public transportation that operates along a set pathway on steel rails. The light-rail system in the Phoenix metropolitan area will operate at street level in its own lane separated from automobile traffic and have a certain level of priority at traffic signals. Light rail will travel at posted speed limits on city streets and can reach 55 MPH in future freeway corridors. Light rail is powered by electricity from overhead wires. It will operate on two sets of tracks, with trains of up to three cars traveling in each direction. Light-rail trains will operate 18 to 20 hours per day, every day of the week, stopping at stations about every 10 minutes during peak hours and about every 20 minutes off-peak. Light rail can carry up to passengers in a single three-car train. Initially the system will carry 3, to 5, passengers per hour during peak hours, the equivalent of an arterial street. With additional vehicles, the system ultimately will be able to carry the equivalent number of people as a six-lane freeway—12, to 15, people per hour. You May Also Like.

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More ways to get in touch McAfee Stinger is a standalone utility used to detect and remove specific viruses. It is not a substitute for full anti-virus protection, but a specialized tool to assist administrators and users when dealing with infected system. Stinger utilizes next-generation scan technology, including rootkit scanning, and scan performance optimizations. It detects and removes threats identified under the "Threat List" option under Advanced menu options in the Stinger application. How do you use Stinger? Download the latest version of Stinger. When prompted, choose to save the file to a convenient location on your hard disk, such as your Desktop folder. When the download is complete, navigate to the folder that contains the downloaded Stinger file, and run it. The Stinger interface will be displayed. By default, Stinger scans for running processes, loaded modules, and registry and directory locations known to be used by malware on a machine to keep scan times minimal. By default, Stinger will repair any infected files it finds. I know I have a virus, but Stinger did not detect one. Stinger is not a substitute for a full anti-virus scanner. It is only designed to detect and remove specific threats. This is most likely due to Windows System Restore functionality having a lock on the infected file. Where is the scan log saved and how can I view them? By default the log file is saved from where Stinger. Within Stinger, navigate to the log TAB and the logs are displayed as list with time stamp, clicking on the log file name opens the file in the HTML format. Where are the Quarantine files stored? The quarantine files are stored under C: What is the "Threat List" option under Advanced menu used for? This list does not contain the results from running a scan. Are there any command-line parameters available when running Stinger? Yes, the command-line parameters are displayed by going to the help menu within Stinger. I ran Stinger and now have a Stinger. When Stinger runs it creates the Stinger. When you run Stinger the next time, your previous configuration is used as long as the Stinger. Stinger updated components of VirusScan. Is this expected behavior? If the rootkit scanning option is disabled within Stinger the VSCore update will not occur. Does Stinger perform rootkit scanning when deployed via ePO? To enable rootkit scanning in ePO mode, please use the following parameters while checking in the Stinger package in ePO: What versions of Windows are supported by Stinger? In addition, Stinger requires the machine to have Internet Explorer 8 or above. What are the requirements for Stinger to execute in a Win PE environment? How can I get support for Stinger? Stinger is not a supported application. McAfee Labs makes no guarantees about this product. How can I add custom detections to Stinger? Stinger has the option where a user can input upto MD5 hashes as a custom blacklist. During a system scan, if any files match the custom blacklisted hashes - the files will get detected and deleted. This feature is provided to help power users who have isolated a malware sample s for which no detection is available yet in the DAT files or GTI File Reputation. To leverage this feature: Input MD5 hashes to be detected either via the Enter Hash button or click the Load hash List button to point to a text file containing MD5 hashes to be included in the scan. During a scan, files that match the hash will have a detection name of Stinger! Full dat repair is applied on the detected file. Files that are digitally signed using a valid certificate or those hashes which are already marked as clean in GTI File Reputation will not be detected as part of the custom blacklist. This is a safety feature to prevent users from accidentally deleting files. How can run Stinger without the Real Protect component getting installed? In order to run Stinger without Real Protect getting installed, execute Stinger.

Chapter 3 : Download McAfee Stinger Free Latest Version | Free Download C-Net

Waterjet Stinger The Waterjet Stinger was specially designed to use high-pressure water to hydrodrill a hole in the ground to plant unrooted hardwood cuttings.3 m VOLUME 2 € ¢ NUMBER 2. but do not root as readily.

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The Waterjet Stinger was specially designed to use high-pressure water to hydrodrill a hole in the ground to plant unrooted hardwood cuttings into riparian revegetation. This is not new technology, in fact, it has been around for a long time.

Chapter 5 : Water Jetting Program (C13)

Using high-pressure water forced through specially-designed stainless steel nozzles, you can quickly, easily, and efficiently bore holes for planting dormant, nonrooted cuttings in riparian zones. We provide technical information for constructing and using the Waterjet Stinger.

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Chapter 7 : Bridging the challenges - The Fabricator

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Chapter 8 : KMT Waterjet Cut Calculator. Compare 90,psi to 60,psi.

The original Waterjet Stinger creates holes, using high-pressure water, to plant nondormant hardwood cuttings, usually for riparian restoration. By using a new head that has a different tip and wider, thicker vanes, the Waterjet Stinger can create holes for container stock as well.

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