

# HammerHead® Pipe Ramming Questionnaire



## Customer Information

Company	Contact	Project Location
Phone	Fax	Mobile

## HammerHead Representative

Contact	Phone	Fax
Mobile		

Prior to setting up an actual job, certain information is needed to properly determine if the job may be suited for pipe ramming and what products will be required to accomplish the ram. Reviewing the following questions before each ram will assist you in deciding if pipe ramming is feasible and what will be the most productive HammerHead® pipe rammer for the job. **WARNING: DO NOT RAM CARRIER GAS LINE. DO NOT USE MIDWELD PIPE.**

- Has the job been thoroughly discussed with the contractor or customer? \_\_\_\_\_
- Has the job site been visited with the contractor or customer to visually inspect the conditions? \_\_\_\_\_
- What diameter casing is to be used? Outside Diameter (OD)? \_\_\_\_\_ Inside Diameter (ID) \_\_\_\_\_
- What is the wall thickness or schedule of the pipe being considered to ram? \_\_\_\_\_
- What is the length of the ram(s)? \_\_\_\_\_
- What is the planned depth of the casing to be rammed? \_\_\_\_\_
- What is the utility being installed inside the casing? \_\_\_\_\_ What diameter? \_\_\_\_\_
- Has a bell hole been dug to check the soil conditions? \_\_\_\_\_
- What are the soil conditions? (sand, clay, topsoil, stone, gravel, rock, etc...) \_\_\_\_\_
- If there is cobble or rock, how large is it and what percentage is this material? \_\_\_\_\_
- What is the N value? (See N Value Chart) \_\_\_\_\_

N Value	60	40	20	10	6	2
Strength/Consistency	Very hard or very weak	Very stiff	Stiff	Firm	Soft	Very soft
Penetration	Easily broken by hammer. Penetration to about 5 mm with knife	Easily broken by thumbnail. Penetration to about 15 mm with knife	Indented by thumb	Penetrated by thumb with effort	Easily penetrated by thumb	

- What grade, if any, is required \_\_\_\_\_
- What is the tolerance on the grade? \_\_\_\_\_ Up and Down \_\_\_\_\_ Side to Side \_\_\_\_\_
- Are there any utilities on either end of the casing that will tie into the service inside the casing to be rammed? \_\_\_\_\_

**Please Return Via Fax at 262-567-5068**

1300 Capitol Drive • Oconomowoc, WI 53066 • 800.331.6653 (USA) • +1 262.567.8833 (Int) • FX: 262-567-5068

PN: L304-0908NK

# HammerHead® Pipe Ramming Questionnaire



- 15. Have all permits been secured? \_\_\_\_\_
- 16. Have the existing utilities been located? (Diggers Hotline: 888-258-0808) \_\_\_\_\_
- 17. What are the existing utilities? \_\_\_\_\_
- 18. How close to the existing buried utilities will the casing pass? \_\_\_\_\_
- 19. Can existing utilities be exposed? \_\_\_\_\_
- 20. What size rammer is being considered? (See recommended HammerHead® Pipe Ramming Equipment Selection Chart) \_\_\_\_\_
- 21. Is a compressor available of the correct size for the tool selected (110 psi/7.6 bar)? NOTE: Two equally matched compressors may be piggybacked together to achieve correct cfm at the tool.

Tool in (mm)	Size	4.00 (98)	5.125 (130)	5.50 (140)	5.75 (145)	7.00 (180)	8.00 (200)	12.00 (300)	16.00 (400)	20.00 (500)	24.00 (600)
Air Consumption cfm (m <sup>3</sup> )		68 (1.9)	98 (2.8)	68 (1.9)	132 (3.7)	235 (6.7)	308 (8.7)	600 (17.0)	1,050 (29.7)	1,290 (36.5)	1,700 (48.1)

- 22. Is there sufficient space from the entrance of the pipe location to accommodate the length of casing in the ground, new casing and the tool? (See Site Preparation Chart for tool lengths) \_\_\_\_\_
- 23. What length casing segments will be installed? \_\_\_\_\_
- 24. What is the maximum length available for an entrance pit? (Note: if multiple sections of pipe can be welded together, the less downtime for welding, setup and alignment is incurred.) \_\_\_\_\_
- 25. Is water available for lubrication and/or spoil removal? \_\_\_\_\_
- 26. Will welding equipment be available on-site? Note: welding equipment will be required to fabricate soil shoes, lubrication systems and welding casings together. \_\_\_\_\_
- 27. Is a pump/mixing tank available? (100 psi @ 5 gpm), (7 bar @ 20 lpm) \_\_\_\_\_
- 28. What is the method planned for soil removal? (auger boring machine, HDD with auger flighting, plug kit and pipe pig, sewer jet machine) Please explain. \_\_\_\_\_
- 29. Is the area safe for spoil removal? (Explain) \_\_\_\_\_

**Please Return Via Fax at 262-567-5068**

1300 Capitol Drive • Oconomowoc, WI 53066 • 800.331.6653 (USA) • +1 262.567.8833 (Int) • FX: 262-567-5068

PN: L304-0908NK