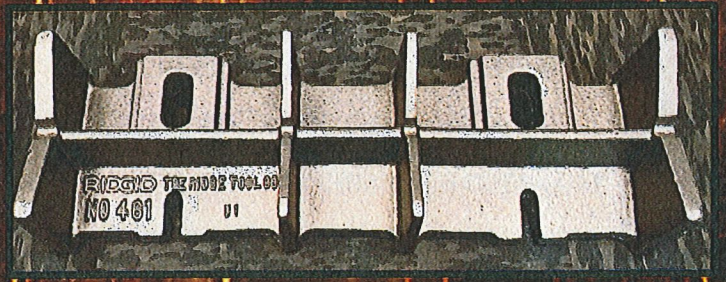
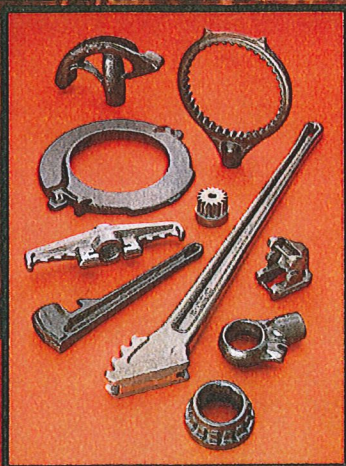


Urick has been producing castings in Erie, Pa since 1905. We take pride in producing the best quality castings by doing ductile iron differently:

- High speed Disamatic 230B yields 300+ molds per hour, we run small to medium size orders - 300-100,000 molds per year
- Automated In-mold inoculation of our iron ensures exceptional nodularity (ductility) and little to no carbides for easier machining, better tool life and reduced scrap
- High quality, fine sand, produces exceptional surface finish and letter quality
- Lifetime patterns – Pay only once for your pattern!
- 100% Resonance-Frequency testing to guarantee optimal nodularity
- High magnesium recovery, fade elimination, consistent micro-structure and superior mechanical properties

What else do we do for our customers?

- ISO 9001:2015 Registered via BSI
- Full array of supply chain services including machining, heat-treating, painting, plating, ADI
- Engineering service to support your casting design needs including conversions of steel parts (weldments, forgings) to castings
- 3D scanning and flow simulation software utilized to optimize mold systems and ensure dimensional accuracy



www.Urick.net
814-454-2461

1501 Cherry Street, Erie, PA 16502



Located in Erie, PA, Urick has been producing castings since 1905.

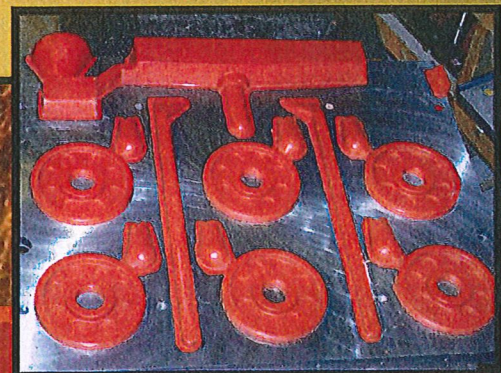
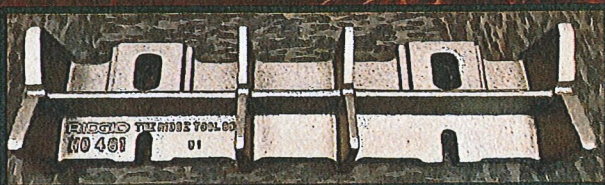
We take pride in producing the best quality castings by doing ductile iron differently:

- Urick is the only U.S. foundry utilizing automated in-mold Inoculation of our iron. We introduce magnesium alloy into every mold poured. This ensures exceptional nodularity (ductility) and **consistency** from mold-to-mold, whether it is the first piece or the thousandth piece. Additionally, castings will have no carbides which allows for **easier machining, better tool life and reduced scrap!**
- Minimum nodularity of 85% vs industry standard 80%, most castings will be well over 90%
- Exceptionally fine molding sand produces exceptional surface finish and letter quality so your logo shines through
- Lifetime guarantee on patterns – You pay only once for your pattern!
- 100% Resonance-Frequency testing to guarantee optimal nodularity
- High magnesium recovery, fade elimination, consistent microstructure and lower as-cast hardness

If safety and dependability are important, or a weldment cracking is a risk in the product you're producing, ductile iron castings are superior v. traditional gray iron castings or weldments.

Other in-house capabilities are available to help our customers:

- ISO 9001:2015 Registered via BSI
- High speed Disamatic 230B yields 300+ molds per hour, we run small to medium size orders - 300-100,000 molds per year
- Full array of supply chain services including machining, heat-treating, painting, plating, ADI
- Full engineering service to support your casting design needs including conversions of steel parts (weldments, forgings) to castings
- 3D scanning and flow simulation software utilized to optimize mold systems and ensure dimensional accuracy



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Casting Design Parameters:
 Casting Weight: 40 pounds max
 Min. Wall Thickness: 0.200"
 Min. Machine Stock: 0.060"
 Min. Draft Angles: 5° on inside pockets, 3° on outside features
 Tolerancing: +/- 0.030" up to 3.0" + 0.008" for every inch over 3.0"

Pattern & Cores:
 Pattern Size: 21.0" x 25.5" (14" x 22" working area)
 Total Pattern Height: 13.9"
 Total Offset: 3.5"
 Total Core Set: 10.63"

ASTM A536 Grades of Ductile Iron Produced by Urick Ductile Solutions

GRADE	BHN Range	Min. Tens. Str.	Min Yield Str	% Elongation
60-40-18	187 max	60,000 psi	40,000 psi	18%
65-45-12	156-217	65,000 psi	45,000 psi	12%
80-55-06	187-241	80,000 psi	55,000 psi	6%
100-70-03	241-302	100,000 psi	70,000 psi	3%

ASTM A897/897 M-06 Grades of Austempered Ductile Iron

Grade	Tensile MPa / KSI	Yield MPa / KSI	Elong %	Impact Joules/Lb. Ft.	Brinell BHN
750-500-11	750/110	500/70	11	110/80	241-302
900-650-09	900/130	650/90	9	100/75	269-341
1050-750-07	1050/150	750-110	7	80/60	302-375
1200-850-04	1200-175	850/125	4	60/45	341-444
1400-1100-02	1400/200	1100/155	2	35/25	388-477
1600-1300-01	1600/230	1300/185	1	20/15	402-512