



LiftMate™

Ball-and-Socket Hinge System
For Lids, Grates and Trench Covers

Improved Safety • Easier Operation • Rugged Durability

NEENAH 
FOUNDRY

Neenah Foundry's LiftMate™ Hinge System features our patented controlled-motion pivot

- Unique mechanical design delivers true one-person operation
- Eliminates many traditional hazards of working with covers
- Simplifies and eases operational access
- Available with a range of high-quality manholes, grates and trenches

**Innovative Engineering
and Casting Expertise
Create a Better Hinge**



LiftMate™ Hinge System

Innovative Functionality that Sets the Standard



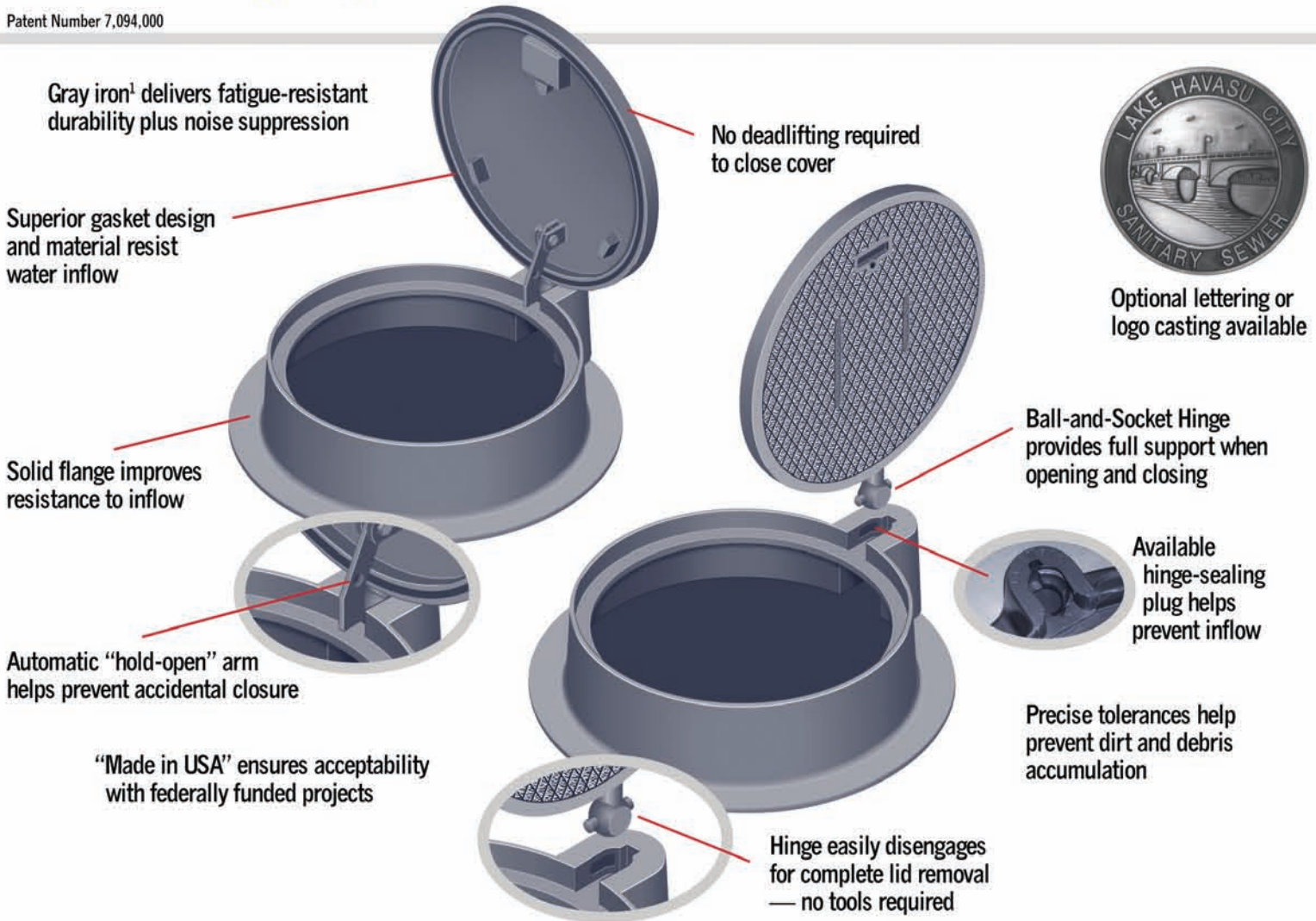
NEENAH 
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800-558-5075 | www.neenahfoundry.com

Neenah Foundry's LiftMate™ Hinge System
outperforms competing products
on all important counts.

LiftMate™ Hinge System Features & Benefits

Patent Number 7,094,000



Premium, Made in USA Quality and Performance

Strong, yet light, platen gray iron¹ lids exceed AASHTO's M306-07, 40,000# proof load

Superior traffic sound mitigating properties

Excellent strength and wear resistance — almost indestructible²

Standard neoprene self-sealing T-gasket

Compatible with most internal chimney seals

High-quality precision castings in a full range of sizes

True custom lettering or logo lids available

Ergonomic Ball-and-Socket Hinge

Handhole allows opening with a lever or pickaxe to significantly reduce lifting effort

Unique design increases stability when opening or closing cover

"Hold-open" arm automatically locks to help prevent accidental closure

Tested to more than 13,000 open-and-close cycles

Cover easily disengages for removal or replacement

Allows closure without having to lift full weight of cover

Helps prevent back injuries, physical strain and lost time

¹Conforms to ASTM A48 Class 35B

²Meets or exceeds 40,000-pound proof loading requirements of AASHTO-M-306-07

Patent Number 7,094,000

MATERIAL

The proven strength, economics and sound-dampening properties of gray iron

OPERATION

One-man-operable lids are easier to open and close — no deadlifting full lid weight

SAFETY

Gravity-driven mechanism automatically locks when opened, easily unlocks when closing

WATER RESISTANCE

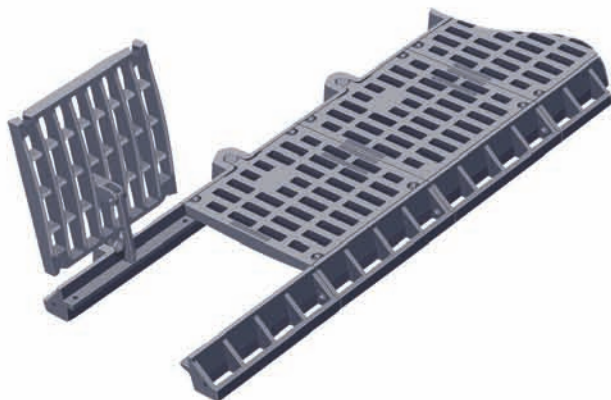
Superior T-seal gasket is standard

Grates and Trench Covers

The benefits of the LiftMate™ Hinge System are available with the proven strength and performance of Neenah Foundry grates and trench covers. Grates meet or exceed all applicable strength and traffic loading requirements. Hydraulic performance information is available on request.



LiftMate™ Hinge System grates and trench covers, cast from high-strength gray iron or Ductile Iron as appropriate, offer exceptional durability and hydraulic performance.



Available Security Options

In addition to high-strength camlock mechanisms, Neenah offers a wide range of bolt options. For further information, visit www.nfco.com/literature/brochures/bolting.html



Countersunk bolts for security furnished standard



Optional camlock mechanism for added security

LiftMate™ Hinge System

LiftMate™ Frame, Solid Gasketed Lid		
Model	Clear Opening (Diameter)	Frame Height
R-1550-LM	21"	9"
R-1642-LM	24- $\frac{1}{8}$ "	7"
R-1650-LM	24- $\frac{1}{8}$ "	4"
R-1743-LM	30"	6"
R-1753-ALM	27- $\frac{1}{8}$ "	7"
R-1755-F2LM	25"	7"

Also Available:

LiftMate™ Trench Frames and Grates Rated for Airport & Container Port Use

Manufactured using high-strength Ductile Iron to meet or exceed airport and container port guidelines³. Hydraulic performance information is available on request. For complete listings of systems rated for these applications, refer to the Neenah Foundry Airport and Port-Type Castings catalog.

Model	Clear Opening (Trench)	Frame Height
R-4994-HALM	24"	6"

LiftMate™ Inlet Frame, Grate				
Model	Clear Opening	Frame Height	Free Open Area (sq ft)	Weir Perimeter (lineal ft)
R-3210-ALM	22" x 22"	6"	1.5	8.0
R-3210-LLM	22" x 22"	6"	1.4	8.0
R-3222-1ALM	22" x 19- $\frac{1}{2}$ "	7"	1.5	8.0

Contact your Neenah Representative for complete details. Neenah Foundry can also custom make sizes according to your specifications.

³Capable of withstanding minimum 100,000-pound loads and other criteria as specified in applicable FAA Advisory Circulars.

SURGE RELIEF

Hinge allows pressure relief but prevents lid blow-off

TRAFFIC RATED

Exceeds 40,000-pound proof loading requirements of AASHTO-M-306-07

WORKER PROTECTION

Reduces operators' risk of excess physical strain and off-balance maneuvering

SECURITY

Available bolt and camlock options effectively resist unauthorized access

Neenah Foundry

Since 1872, Neenah Foundry has been known for consistent quality, functional performance and design aesthetics. We're also proud of our reputation for responsive support and service. When you choose Neenah Foundry, you've chosen the best.

Neenah offers an extensive selection of castings for construction and municipal use including manhole covers and frames, catch basins and curb inlets, cast iron downspouts, airport and port castings, bridge scuppers, detectable warning plates and many other specialty products.

Contact any Neenah Foundry office for more information or a copy of our Construction Castings catalog. Our catalog is also available online at www.neenahfoundry.com.



In support of the Green Initiative, Neenah Foundry is pleased to report that our products contain a minimum of 85% recycled content in the form of a minimum of 35% consumer-generated scrap metal and a minimum of 50% industrial-generated scrap metal.



Detectable
Warning Plates



Spring Assist
Hatches



Downspouts

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These products are to be specified and used under the guidance of qualified design professionals.

Neenah Foundry Co. is a subsidiary of

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