

Morning Star Product Catalog

Manhole Covers, Drainage Gratings, Trench Covers and Custom Utility Castings

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Catalog Introduction

This catalog introduces Morning Star's main public-facing product lines for municipal access, drainage and utility projects. Specifications shown here are common size and application directions rather than fixed production drawings for every order.

Chapter 1: Company Overview

Morning Star is a municipal utility products manufacturer based in Xian County, Cangzhou, Hebei, China. The current catalog focuses on manhole covers, drainage gratings, trench covers, custom utility castings and selected supporting products for drainage and inspection projects.

Chapter 2: Round Manhole Covers

Round manhole covers are one of Morning Star's key product groups for municipal roads, utility chambers, public infrastructure access points and replacement supply.

Common Direction

- 1 Common clear opening directions: 600 mm, 700 mm, 800 mm and 900 mm series
- 2 Structure: cover and frame set
- 3 Material direction: ductile iron as the main public-facing material direction
- 4 Load-class direction: A15, B125, C250 and D400 according to application review
- 5 Surface direction: asphalt coating, anti-rust coating or order-based finishing review

Typical Applications

- 1 Municipal road access points
- 2 Water, sewer and utility maintenance chambers
- 3 Public-area inspection openings
- 4 Replacement of existing covers with matched dimensions

Custom Options

- 1 Utility wording
- 2 Logo
- 3 Opening-hole arrangement
- 4 Locking or structural review by project

Chapter 3: Square Manhole Covers

Square manhole covers are suitable for communities, public buildings, utility maintenance points, landscape areas and project-specific access openings.

Common Direction

- 1 Common size directions: 500 x 500 mm, 600 x 600 mm, 700 x 700 mm, 800 x 800 mm and 850 x 850 mm
- 2 Structure: frame-supported square access covers
- 3 Material direction: ductile iron or cast iron direction subject to product confirmation
- 4 Load-class direction: B125, C250 and D400 according to application position

Typical Applications

- 1 Residential communities
- 2 Public facility maintenance areas
- 3 Power and telecom access points
- 4 Campus and institutional maintenance openings

Custom Options

- 1 Handle type
- 2 Frame structure
- 3 Utility wording
- 4 Logo and project marking

Chapter 4: Drainage Gratings

Drainage gratings are one of Morning Star's core products for stormwater collection points, roadside gullies and project drainage nodes.

Common Direction

- 1 Common size directions: 400 x 600 mm, 450 x 750 mm, 500 x 700 mm, 750 x 450 mm and similar project-based sizes
- 2 Configuration direction: with frame or without frame
- 3 Layout direction: single grating, double grating or heavy-duty framed arrangement
- 4 Material direction: ductile iron or cast iron direction
- 5 Load-class direction: B125, C250 and D400 according to site condition

Typical Applications

- 1 Roadside rainwater inlets
- 2 Municipal drainage points
- 3 Community drainage nodes
- 4 Industrial and yard drainage areas

Custom Options

- 1 Frame requirement
- 2 Opening orientation
- 3 Size adjustment
- 4 Logo or project marking review

Chapter 5: Trench Covers and Drainage Channels

Trench covers are used for linear drainage systems in roads, factories, communities, parking areas and utility corridors.

Common Direction

- 1 Trench width direction: 200 mm to 600 mm range for common review
- 2 Length and arrangement: project-based
- 3 Material direction: cast-metal trench cover direction, with product-line confirmation by application

- 4 Load-class direction: B125, C250 and D400 according to use position

Typical Applications

- 1 Linear drainage runs
- 2 Roadside channels
- 3 Factory drainage
- 4 Parking deck and garage drainage

Custom Options

- 1 Trench width
- 2 Cover length
- 3 Opening design
- 4 Surface and structure review

Chapter 6: Custom Utility Castings

Custom utility castings are a major difference-maker in Morning Star's product presentation. This chapter is intended for buyers who need project-specific wording, logo, marking, replacement matching or special-size review.

Main Custom Directions

- 1 WATER, SEWER, STORM and TELECOM wording
- 2 City names and project names
- 3 Project numbering and utility identification
- 4 Logo customization
- 5 Decorative or landscape-oriented pattern review
- 6 Old-cover replacement matching based on photos and dimensions

Inquiry Basis

Customers can begin with:

- 1 Drawings
- 2 Existing samples

- 3 Old-cover photos
- 4 Basic dimensions
- 5 Quantity and application information

Chapter 7: Pipe and Inspection Support Products

Morning Star also presents selected supporting products for drainage and inspection projects. These products support broader project sourcing needs and are presented as supplementary product capability.

Included Directions

- 1 HDPE double-wall corrugated pipes
- 2 Steel-reinforced corrugated pipe direction
- 3 Plastic inspection well direction

Typical Use

- 1 Municipal drainage systems
- 2 Inspection and drainage support projects
- 3 Combined supply with covers, gratings and related utility products

Chapter 8: Application Guide

Morning Star's product groups are commonly matched to the following scenarios:

- 1 Municipal roads
- 2 Residential communities
- 3 Parks and scenic areas
- 4 Stormwater collection points
- 5 Utility maintenance networks
- 6 Replacement and retrofit projects

The most suitable product should be reviewed according to application position, load direction, size requirement, frame structure and whether custom marking is needed.

Chapter 9: RFQ Guide

For faster quotation review, please provide:

- 1** Product type
- 2** Dimensions or clear opening
- 3** Load class or application condition
- 4** Quantity
- 5** Marking requirement
- 6** Drawing, sample or product photo if available
- 7** Destination or shipping requirement

If complete drawings are not available, old-cover photos and basic dimensions can still be used to begin the first review.

Closing Note

This catalog is intended to make product communication clearer and faster. It helps buyers understand Morning Star's main product structure, typical application directions and customization route while keeping technical, standard and certification claims within the boundaries of verified information.