

# **GET TO KNOW**

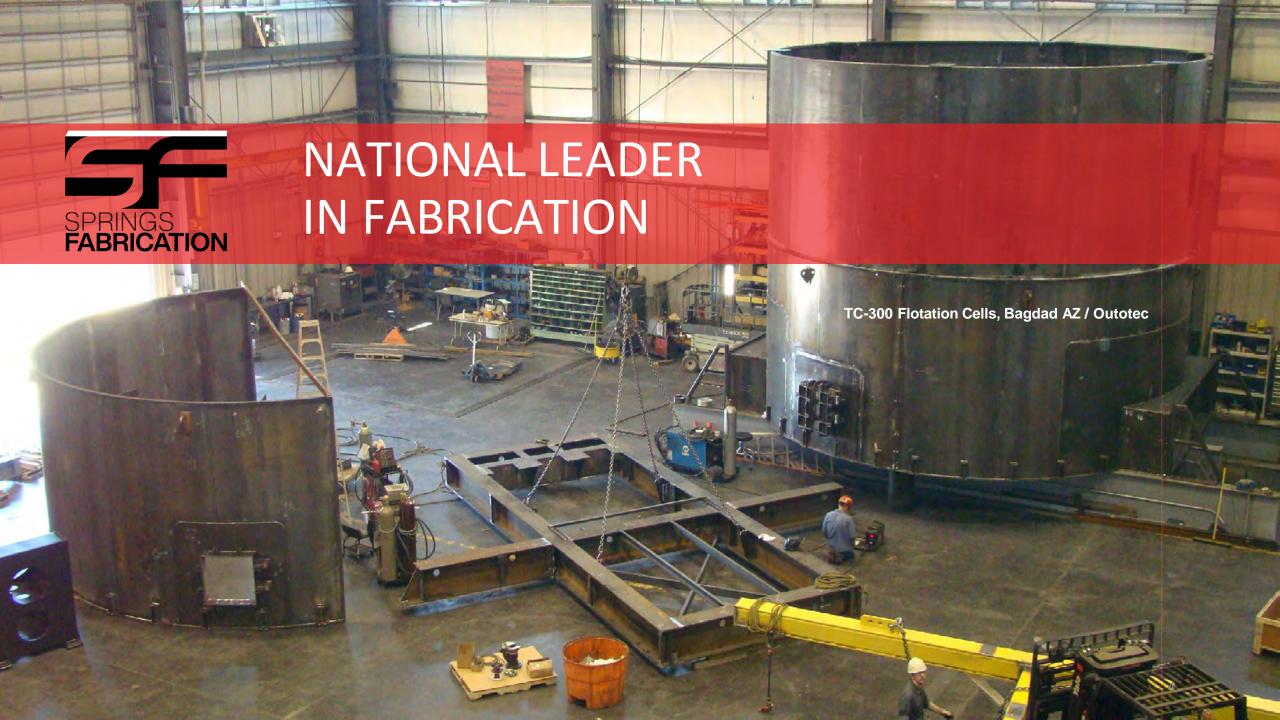
SPRINGS FABRICATION, LLC

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# **ABOUT US**



# ABOUT US

Over 100,000 square feet of industry leading high bay manufacturing facilities.

Approximately 125 employees.

With the **capabilities to manufacture** products from simple weldments and custom pressure vessels to fully engineered skidded systems and large CNC machine capacity for industrial sized weldments.



Since 1986, Springs Fabrication has been serving the needs of companies nationwide with quality machining and fabrication services.

Our focus and commitment towards delivering complex, high-end engineered metal products across a wide range of industries has been the cornerstone of our continued success.

Through our responsiveness, quality, performance and value-added services, Springs Fabrication is able to enjoy mutually successful relationships with our customers.





- Modern 105,000 square foot facility on 11 acres
- Large 100 ft. x 450 ft. fabrication bay
- (2) 100 ft. span, 40-ton double trolley bridge crane
   x 32 ft. under hook height servicing large fabrication bay
- Assembly bay 50 ft. x 100 ft. with (2) 15-ton cranes
   x 55 ft. under hook height

- Precision floor imbeds in multiple locations allow us to accurately fixture and align large fabrications.
- Indoor reclaim blast booth, 20 ft. x 24 ft. x 70 ft. with inlaid track
- Climate controlled paint booth, 16 ft. x 18 ft. x 75 ft. with inlaid track



# CAPABILITIES CORE COMPETENCIES

# CAPABILITIES & CORE COMPETENCIES

- Engineering and Design Services
- Project Management
- Commercial and Contract Manufacturing
- Material Processing
- Code Welding Program
- Large Machining Capabilities Lathes / Mills
- Finishing and Assembly
- Inspection and Testing





#### ENGINEERING + DESIGN

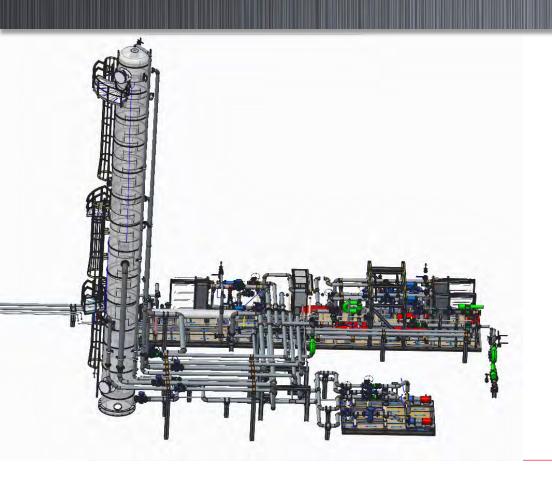
Springs Fabrication has a diverse range of experience from the design of simple parts to engineering complex equipment and systems.





**DESIGN + ENGINEERING: Coil Stacking Tool – ITER / General Atomics** 

#### ENGINEERING + DESIGN



# KEYS TO PROVIDING TIMELY, QUALITY PRODUCTS:

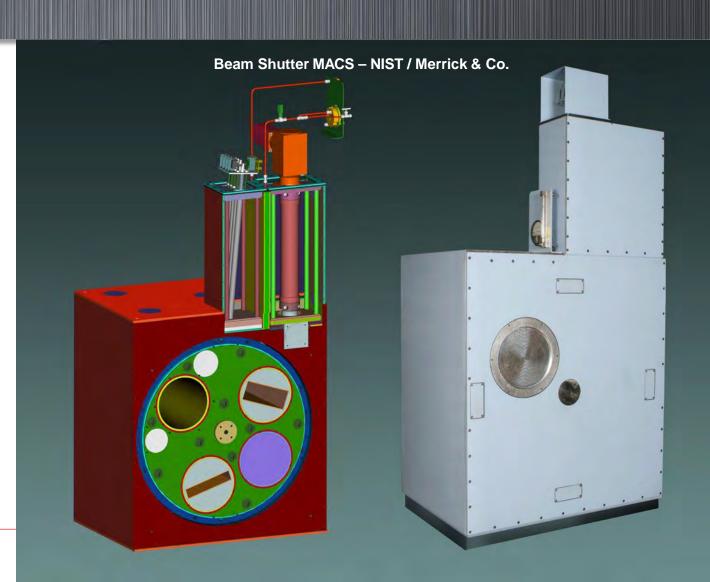
- design for manufacturing capabilities
- engineer and perform analysis
- manufacture, assemble and test

In the early phases of each project, our experienced design team conducts a comprehensive design review, laying the groundwork for a seamless transition from engineering to manufacturing.

#### DESIGN & ENGINEERING

## OUR DESIGN PROCESS SHORTENS LEAD TIME + IMPROVES ACCURACY

- CREO (Pro/ENGINEER) and SolidWorks 3D Modeling software to construct scaled, 3D models.
  - Designs optimized to reduce cost and shorten lead time
  - Drawings generated directly from the 3D Modeling software
- AutoCAD is used to create 2D drawings:
  - schematics
  - diagrams
  - P&IDs
- We export part geometry, metadata, out of the design software directly to our post processing software and machining centers.





## PROJECT MANAGEMENT

#### **UPON AWARD AND ACCEPTANCE**

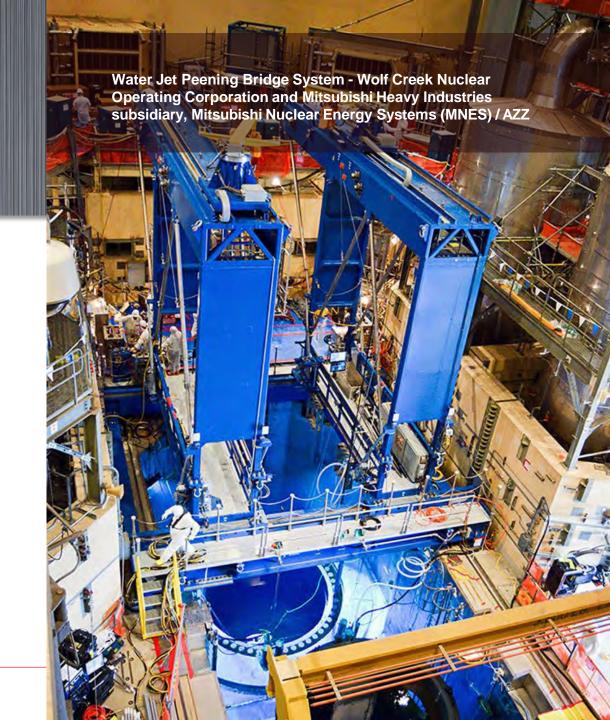
the project is assigned to a project management team responsible for all coordination and execution.

#### PROJECT MANAGEMENT TEAM INCLUDES

- Project manager
- Project/Manufacturing engineer
- Quality, welding engineering, and procurement are shared resources and support the project as required

#### THE PROJECT MANAGER IS

- responsible for the project and providing updates, correspondence, project submittals, and scheduling updates
- responsible for defining the Project Execution Plan
- the primary point of contact with the customer





# COMMERCIAL / CONTRACT MANUFACTURING

Recognized as one of the leading and most capable metal fabricators in the Rocky Mountain region, Springs Fabrication offers over 30 years of design and manufacturing excellence.

As the supplier-of-choice for several leading industrial companies, Springs Fabrication has a track record of forming strong, productive partnerships with our customers. Our experienced team ensures that the products meet all your specifications.

#### **INDUSTRY EXPERIENCE**

New & Existing Energy | Mining & Remediation | Aerospace Infrastructure | General Industry | Railroad Top 10 Engineering Firms | National Laboratories | Nuclear Department of Defense (DOD) | Department of Energy (DOE)





### MATERIAL PROCESSING

#### **EQUIPMENT HIGHLIGHTS**

- Mazak tube laser w/ tapping: Pipe, Tube, Angle, Beam, etc. up to 8.63" diameter
- Mazak flat laser: 78" x 157" travel shuttle table
- Kinetic 4000: 8' x 20' table, 260A HD plasma, Oxy Fuel, Machining Head
- Kinetic 2500: 10' x 24' table, twin-head 260AHD plasma
- Saws: up to 24" x 24"
- Rolling: Plate/Sheet Up to 1-5/8" thick x 12' wide A36, up to 3" thick depending on width
- Forming: Press Brake Up to 200-ton x 12' wide

## A CLOSER LOOK

#### 6-AXIS TUBE LASER CAPABILITY

#### Precision without machining



Round Tube/Pipe



Square & Rectangular Tube



Angle



Beam



Weld Prep

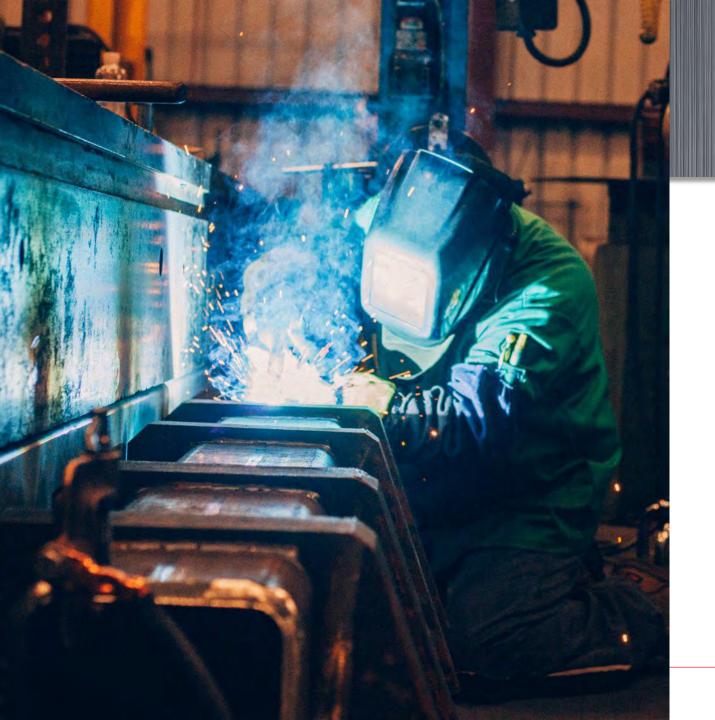


Slot and Tab (Self-fixturing)



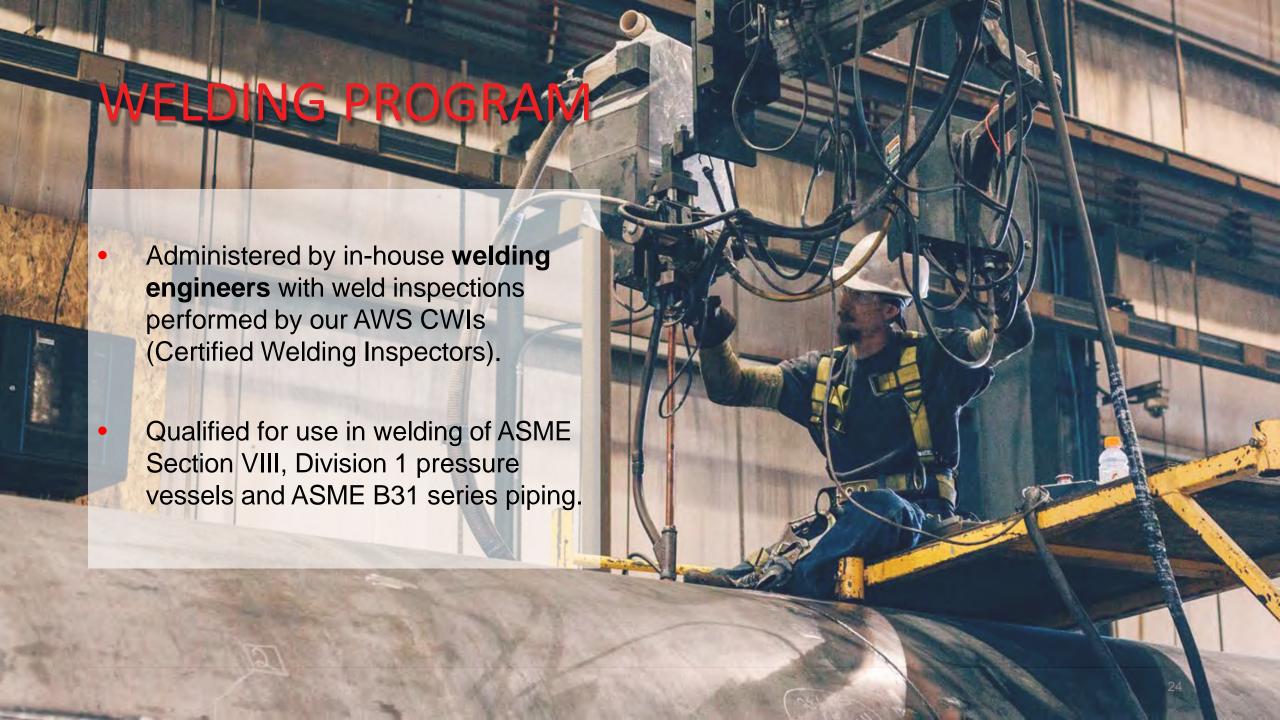
And more.





## WELDING PROGRAM

Our welding program is a mature and robust program administered in accordance with the requirements set forth in Section IX of *the ASME Boiler* and Pressure Vessel Code and the AWS construction codes.





#### **WELDING PROGRAM**

WELDING PROCESSES
GMAW, FCAW, GTAW and SAW

#### **MATERIALS**

Carbon steel, 300 series stainless steel, aluminum and nickel alloys.





### EQUIPMENT HIGHLIGHTS

LATHES

Samsung CNC with live tool & steady rest, 30" x 130"

Haas SL30 with servo 800 bar feeder, 17" x 34"

Mazak Integrex 200s, 5-Axis

HNK VTL with live tool, 78" Table with 98" swing







# EQUIPMENT HIGHLIGHTS MILLS

**G&L Horizontal:** 360" x 96" x 48", 120" sq. rotary infeed table

Femco Horizontal: 78" x 70" x 66", 4th Axis available

Mazak Horizontal: 52" x 48" x 48", 4th Axis, dual pallet

Feeler Bridge: 205" x 94" x 47", right angle head

Chevalier Bridge: 162" x 101" x 39", right angle head

**Haas VF6:** 64" x 32" x 30", 4th Axis available

Hass VF4SS: 50" x 20" x 25", 4th Axis available



# INSPECTION + TESTING HIGHLIGHTS MEASURING AND TEST EQUIPMENT

M&TE is calibrated, documented and traceable to NIST Standards.

In addition to a large variety of standard metrology available for use, we have the following instruments:

FARO 3D Laser Tracker - 250 ft Cube

FARO Arm, Platinum – 6 ft Cube

Bruker XRF PMI (Positive Material Identification) Analyzer

Vacuum Pump System and Helium Tester

Olympus UT Thickness instrument

Digital Psychrometer (environmental conditions)



#### INSPECTION + TESTING HIGHLIGHTS

#### CERTIFICATIONS



In-House capabilities:

Level II SNT-TC-1A Examiners

VT – Visual

MT – Magnetic Particle

PT – Liquid Penetrant

BLT - Bubble Leak Testing

AWS QC1 Certified Welding Inspectors (CWI)



# EQUIPMENT HIGHLIGHTS

FINISHING

#### **BLAST BUILDING**

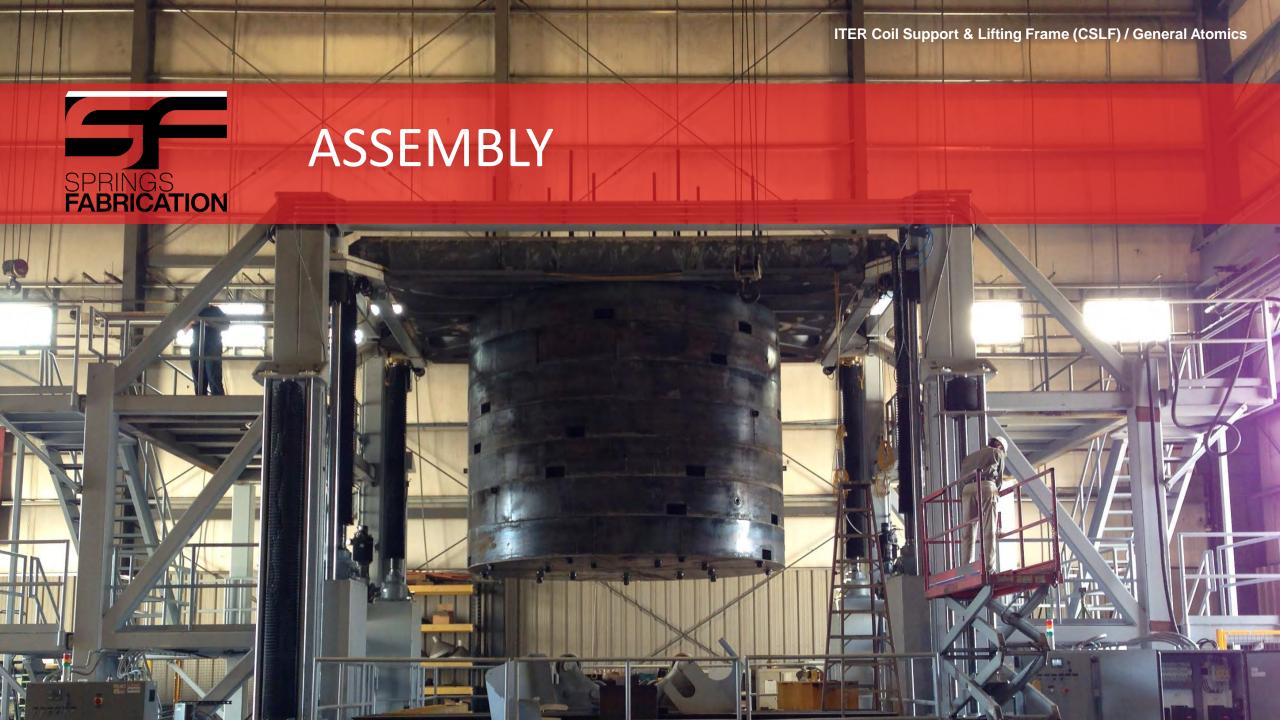
24ft x 20ft x 60ft with recovery floor

Available spray to waste system for virgin and specialty media

#### **PAINT BOOTH**

Viking climate controlled 18ft x 20ft x 75ft In-floor rails for transferring product from blast building to and through paint booth







## EQUIPMENT HIGHLIGHTS ASSEMBLY

#### **MECHANICAL**

50ft x 100ft x 55ft under hook height
Assembly bay serviced by (2) 15 MT cranes and (1) 40T crane

#### **ELECTRICAL**

Termination, Conduit Runs, Ring-Out, Panel Install Larger projects and/or licensed electricians subcontracted



# QUALITY MANAGEMENT SYSTEMS

## QUALITY MANAGEMENT SYSTEMS

#### Springs Fabrication operates three Quality Assurance Programs:

#### QT-1 ISO 9001 Certified QMS

Current edition certified through Orion Registrar, Inc.

## QT-2 ASME NQA-1:2008 Compliant QMS

Meets or exceeds the requirements of ASME NQA-1, 2008; Title 10, U.S. Code of Federal Regulations 830.122; DOE Order 414.1C; and Title 10, U.S. Code of Federal Regulations Part 50, Appendix B.

### QT-3 ASME Section VIII, Division 1 Certified QMS

ASME Certificate of Authorization "U" / NBIC Certificate of Authorizations "NB" & "R"



## CYBERSECURITY

# CYBERSECURITY COMPLIANCE

## In support of Cybersecurity compliance requirements for the handling of Controlled Unclassified Information (CUI) and Covered Defense Information (CDI):

- We hold a medium level of assurance (MLOA) hardware digital certificate.
- Our information system is compliant with the requirements of FAR 52.204-21 "Basic Safeguarding of Covered Contractor Information Systems".
- Our information system is compliant with the requirements of DFARS 252.204-7012 "Safeguarding Covered Defense Information and Cyber Incident Reporting".
- We have implemented all 110 controls of National Institute of Standards and Technology (NIST) Special Publication (SP) 800-171 on our relevant information system.
- ➤ We have implemented Level 1 and 2 controls of Cybersecurity Maturity Model Certification (CMMC), Version 2.0.
- ➤ We have conducted a basic self-assessment of the 110 NIST 800-171 controls and submitted resulting scores to the Department of Defense (DoD) Website "Supplier Performance Rating System (SPRS)" (Ref DFARS 252.204-7019 and DFARS 252.204-7020 for additional information.)



## **PRODUCTS**



# INDUSTRIAL PRODUCTS KEY INDUSTRIES

- New and Existing Energy
- Mining and Remediation
- Aerospace (Non-Flight)
- Infrastructure
- General Industry
- Railroad

- Top 10 Engineering Firms
- National Laboratories
- Department of Defense (DOD)
- Department of Energy (DOE)
- Nuclear

# INDUSTRIAL PRODUCTS KEY PRODUCTS

- Custom, High Specification Fabrication
- Skidded / Packaged Systems
- ASME Pressure Vessels / Heat Exchangers
- Atmospheric Tanks
- Pipe Spools / Piping Systems

- Industrial Rotary Equipment
- Vacuum Chambers
- Large Machined Weldments
- Ground Support Equipment (GSE) / Fixturing
- Bulkheads / Gates / Trashracks



## ORIGINAL EQUIPMENT MANUFACTURER (OEM)



## OEM KEY INDUSTRIES







## ARTS + ENTERTAINMENT

**KEY INDUSTRIES** 

## Metal Art Sculptures

Providing manufacturability and engineering development

#### **Custom Venue Features**

Focused on early-stage product development partnerships



## **PROJECTS**

SEE PROJECT SHEET FOR ADDITIONAL INFORMATION





## STABILIZATION TOWER

Loaded for Shipment Stabilizer Tower 6ft x 82ft / Anadarko Petroleum Corp.







## SPRINGS FABRICATION, LLC

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