



SUSIN I-TORK INDIA PRIVATE LIMITED

An ISO 9001 -2015 Certified Company



Mechanical Actuators

Worm Gear Actuators
Direct & Declutchable
Bevel Gear Actuators



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download E-Catalogue

About

SUSIN I-TORK INDIA PRIVATE LIMITED

Susin Group was founded by Mr. Muthukumar in 1992, as a company specialized in the design, manufacture and installation of Valve Automation Products to Different Industries. We entered the manufacturing market in 2006 and began concentrating more on the industrial demands for valve automation.

We are providing Complete Automation Solution to All kind of Valve Industries where we equipped to Support in Pneumatic, Hydraulic, Electrical & Mechanical Actuators. Susin Produces various range of Critical Products in different Applications



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Worm Gear Actuators

MAW Series

MAW Series Gear Box is rocky with robust design, industrial grade products, manufactured with Cast Iron Housing and Components. These series of gear have easy operating and reliable Surface finish Coatings.

Applications

- MAW Series Gear Boxes are suitable for all rotary types of valves like Ball Valve, Butterfly Valves suitable for all general-Purpose Industries as well as Chemical, Power, HVAC, and Water works industries.
- Hand wheels are available in a variety of sizes for Smooth and Easy Operation.
- Several Options such as Limit Switch, Electrical Motor can be Easily Mounted on site without any machining due to integration of all necessary incorporated with housing.



Features

- 9 Models Up to 18,000 Nm Torque Range.
- $\pm 5^\circ$ Stroke Adjustment.
- IP-67 Rating Protection.
- -20°C to $+85^\circ\text{C}$ Temperature Range.
- Ductile Iron Housing.
- Steel Input Shaft (Stainless Steel Optional).
- Ball Bearing Construction.
- PU Coating for Housing and Powder Coated Hand wheel.

Special Features of Susin Gear Actuators

MAW Series



High Performance Bearing

We use Bearing to make the Smooth Operation to Handwheel Shaft & easy to operate the gear Actuator.



Optimized Worm Gear

Susin Design to Optimize the Worm gear for the Better Performance & reduce the Weight of the Product.



Splined Adaptor

We Provide Splined Drive Output Adaptor to connect/suit the Valve Stem with required Valve Shaft design. Spline adaptor provide accurate position & equally Distributed load transmission to gear & Valve Shaft.



ITG Series

ITG series are rugged, industrial grade manual overrides, manufactured with Ductile Casting housings. All models in this series feature high performance gearings and a superior painted finish.

Applications

- ITG series is designed to provide a manual operation of 90° for shut-off valves & dampers which are equipped with pneumatic rotary actuators.
- ITG series provides a declutchable design for use in all industries where a reliable operation of both double acting and spring return pneumatic actuators is required. All units which are to be mounted between the valve and actuator are supplied with actuator mounting flange for flexible usage.
- All units can be supplied with plain machinable drive shaft to connect the actuator with the valve.



Features

- Compact Ductile Casting Housing body and Moulding Structure.
- Hardened Worm gears & Surface treated internal components.
- Integrated Air Relief System.
- Lever Locking Mechanism for Automatic and Manual.
- A One-Piece Drive Shaft for PLY reduction.
- Adequate Coating for Marine Working Environment with customized colours.
- Proficiency for Addon Attachment like Proximity Sensors.
- Easy Repair and Service
- IP-67 Protection.
- Declutchable handwheel.
- Mounting flanges conforming to ISO 5211 .
- Easy Adjustable Mechanical Stoppers to Control the Limits of Opening/ Closing.
- Detachable drive bush to suit the Valve Stem Connection.

Air Relief Valve System

The Purpose of this Specially Designed ARV Series to exhaust the Excess Instrument Air from the Pneumatic Actuators to operate the Gear Operators easily.

ARV Series having two functional Mode- "Auto Mode" & "Manual Mode".



Auto Mode

- ⚙️ P – Input Air Port.
- ⚙️ A – Solenoid Air Port.
- ⚙️ E – Released Air Port (Muffler can be connected).
- ⚙️ In Auto Mode, Actuators works from the air from 'A' the Sliding Pin Locked in Auto mode.
- ⚙️ There is no air flow in the 'E' Exhaust.

Auto Mode Functionality

When it is in Auto mode then Pneumatic Actuator drives the Valve Stem through Gear Operator without loading the Gear Actuators. Instrument Air from Compressor will pass into Port "P" to Port "A" where the Air travels from compressor to Solenoid Valve Port Then Enters into the Actuator System to perform the valve Functions.

Manual Mode

- ⚙️ P – Input Air Port
- ⚙️ A – Solenoid Air Port
- ⚙️ E – Released Air Port (Muffler can be connected)
- ⚙️ In Manual Mode A – E Route release the air within the actuator
- ⚙️ There is no air flow in the 'A' Solenoid Air Port



Manual Mode Functionality

When it is in Manual mode then Manual override drives the Valve Stem through Gear Operator Handwheel. Instrument Air Inside the Actuator will pass into Port "A" to Port "E"- Exhaust Valve Port where the Air travels from Solenoid Valve Port to Exhaust valve Port "E" to vent the Instrument Air from the Actuator System to perform the valve Functions with Manual Override.

MTG - Multi turn Gear Actuator Series

MTG series are rugged, industrial grade manual overrides, manufactured with Ductile Casting housings. All models in this series feature high performance gearings and a superior painted finish.

Applications

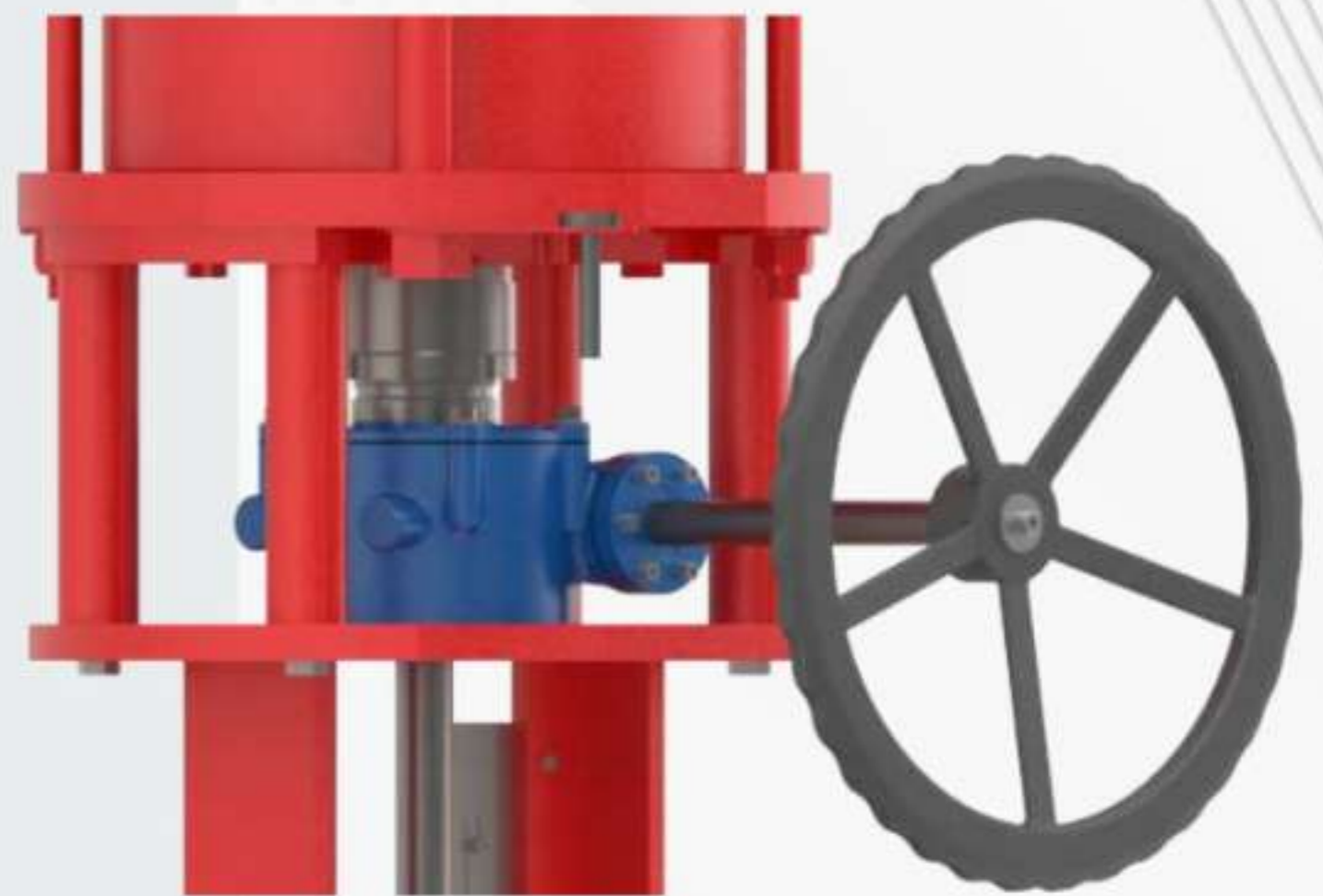
- ⚙️ MTG SERIES ACTUATORS designed for MTG Manual Override Side Mounted Assembly for the Linear Cylinder Gate/Globe Valve Applications. During Failure of Main Sources of any Actuators, we can use our MTG Series to Operate the Gate /Globe Valve for the Emergency or any Specific conditions.
- ⚙️ Our MTG SERIES ACTUATORS has Unique Design features to Provide Higher Efficiency Outputs through Worm Gear Constructions. This leads to reduce the Efforts to Operate the Valves Efficiently.



Features

- ⚙️ Ductile Casting Iron for both Housing & Cover.
- ⚙️ Lever Locking Mechanism for Auto and manual.
- ⚙️ Epoxy primer coated housing and cover.
- ⚙️ Special Lubricants used.
- ⚙️ Roller bearing equipped for smooth Operations.
- ⚙️ Used for high stroke length.
- ⚙️ Manual engagement & disengagement at any position.
- ⚙️ Self-locking.
- ⚙️ Extended support for high length hand wheel.
- ⚙️ Hardened worm and worm gear Ease to Operate through Comfort Handwheels.
- ⚙️ IP-67 Protection.
- ⚙️ Support with Self- Lubricating Bushes for Worm.
- ⚙️ High Thrust Bearings used to withstand Load.

**MTG
Series Actuators
Installed on Susin
PLDS Series Linear
Cylinders**



**MTG
Manual Override
Side Mounted Assembly
for the Linear Cylinder
Valve Applications.**

MAB Series

Bevel gears are gears where the axes of the two shafts intersect and the tooth-bearing faces of the gears themselves are conically shaped.

A bevel gear is used to transfer mechanical energy or shaft power between shafts that intersecting, either perpendicular or at an angle.

We focus to build our MAB (Mechanical Actuator Bevel Series) to meet the requirement for the specify industries like Oil & Gas, Power, Water, General, Wind, Steel and et.



Applications

- Ductile casting housings & covers.
- With stem nut as screw jack.
- Rating IP- 67 protection.
- High & low temperature version.
- Suitable for ambient temperature ranges from -20°C to 80°C .
- High performance bearings.
- Widely used on the Gate & Globe valves.
- Top quality corrosion protection with powder coating.

Drive Sleeve

- Easily replaceable splined stem bush has been permitted inside the drive sleeve.
- Dual locknuts has been permitted to arrest the movement of the stem bush.
- Highly strengthen brass material has used for the stem bush.



Hand Wheels

Casting Wheel

Handwheels are manually - operated devices that revolve around an axis. Handwheels typically perform one of two operational tasks.

They enable movement and precise adjustment to machinery or carefully open and close a valve.

Features

- Fine grain cast irons.
- All cast iron wheels have multiple spokes and grips. Available with or without handle.
- Multiple colours of Epoxy Finish available upon request.



Fabricated Wheel

Handwheels typically perform one of two operational tasks. They enable movement and precise adjustment to machinery or carefully open and close a valve.



Features

- \varnothing 200 mm to \varnothing 710 mm range of diameter.
- Stainless steel or powder coated. Keyed, Pinned or Squared drive.
- Optional open and close indication marking, locking plate, rotating handles.
- Multiple colours of Epoxy Finish available upon request Features.

Chain Wheel

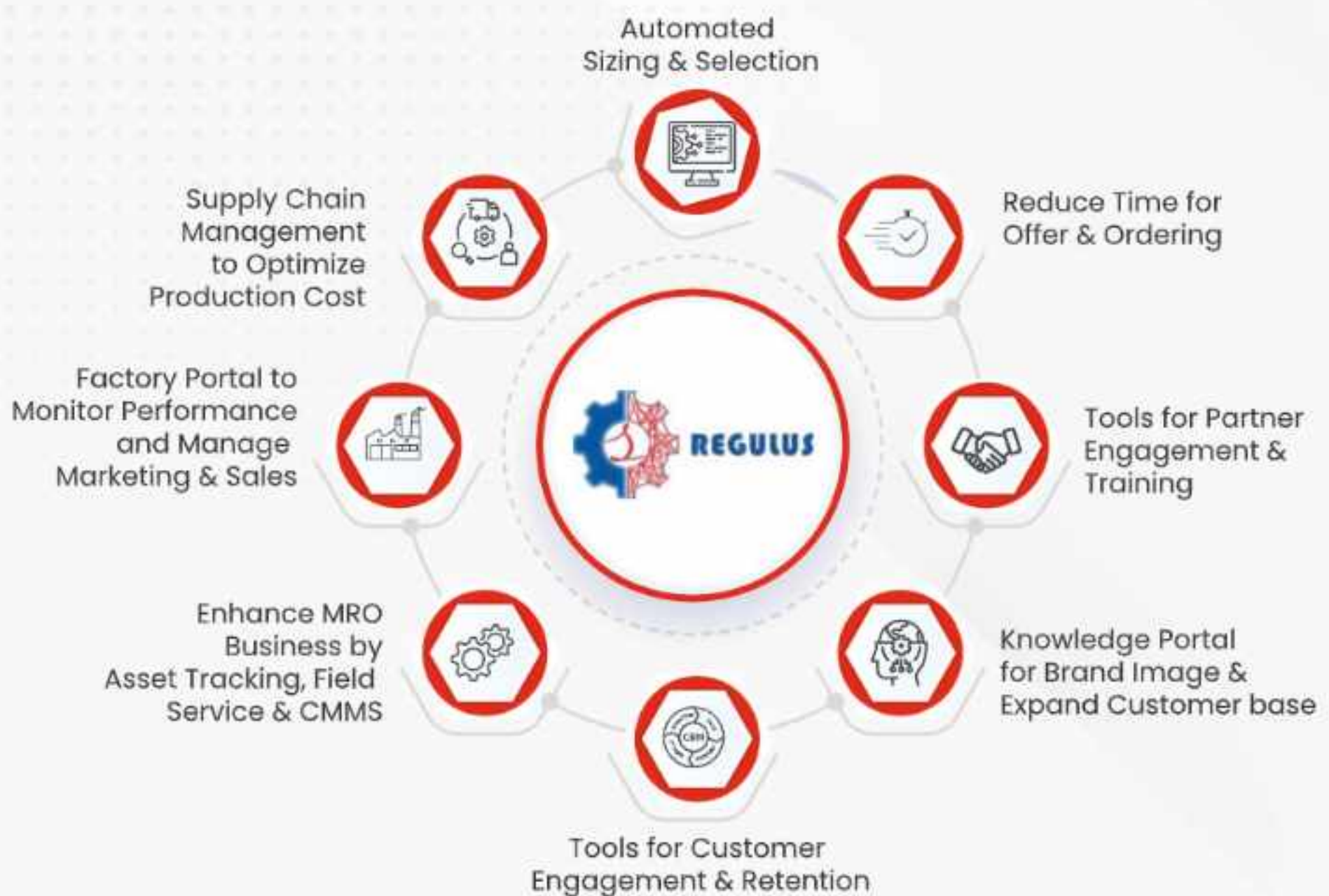
Chain Wheel can be used by mounted directly on the valve to be freely rotated using the chain wheel with the smooth chain link. The valve may locate overhead of the floor can be operated by using the chain which was freely hanging at length below nearer to human. This smooth chain link available with stainless steel material to avoid rust formation.



Business Management System

The objective of Regulus Business Management System (BMS) is to automate the business processes in marketing, Sales, Manufacturing, Supply, Service and Customer Relationship management.

“Pains and Challenges Regulus BMS to Solve”



Regulus BMS



Other Products



Hydraulic Actuators
(Rotary & Linear types)



Electrical Actuators



Pneumatic Actuators
(Rotary & Linear types)

Susin Group Global Presence



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