

DRILL TO THE CORE





25+
Years Company
legacy

25,000+
Units Sold

10+
Countries

100+
Employees

SMS Gears is India's largest Manufacturers of Gearbox and Accessories for Drilling Industry. Factory is located in 2 mile radius has sophisticated Machining and Casting facilities & highly skilled 100+ technocrats to manufacture and assemble gearboxes at our factory. Our machine shop Unit is spread over 8100 sq. Meters (87000 sq. Ft) area with built-up area about 8175 sq. meters (60300 sq. ft) and Foundry division is spread over 18580 sq. Meters (200000 sq. Ft) area with built-up area about 1860 sq. meters (20000 sq. ft). Today SMS Alloys is one of the largest producer of WCB Castings for Water well and Mining Rig Accessories combined. At our SMS Gears Unit We machine all of the castings produced by us today.



SMS Alloys started in the year 2022, Manufactures WCB and all types of Alloys steels. which includes gearbox housings, Valves, Impellers, pulleys, currently SMS Alloys is the only manufacturer in India that has complete casting and machining facility for Drilling and mining spares and accessories. Its clients include SMS Gears, Epiroc, PRD Rigs, Metadrill.

Built Up Area	10,000 Sq.ft
Total Employees	25+
Castings	Steel and Alloy steels
Furnace Capacity	150 Kg's, 350 kg's (Inductotherm)
Other Equipments	Furnace, Shot blasting, Fettling, Sand mixing, Quenching, 2-Ton Heat treatment furnace
Testing Equipments	Spectro, Impact, HB, Tensile

FACILITIES



Machining Facilities

SMS Gears manufacturing facility includes advanced machineries for Gear-Hobbing, CNC ID Grinding, Conv. OD Grinding, Balancing and multiple types of VMC's & CNC's. All of these are from reputed and globally renowned brands for high precision in the manufacturing process.

Our Machining Equipment Includes

- Mori Seiki from Japan – 630x630 Horizontal Machining Centre.
- Hwacheon from Korea – Horizontal Turning Centre.
- Ace Micromatic, BFW, LMW from India- CNC Vertical Turning Centre, CNC Vertical Machining Centre, CNC Turning Centre.
- Fortuna From Germany - CNC Cylindrical Grinding Machine.
- Voumard From Japan- CNC ID Grinding Machine



Foundry Division:

At SMS Alloys we Manufacture and supply of Carbon Steel, Alloy Steel, Stainless Steel, Duplex Stainless steel and Nickel base alloy castings in machined and un-machined conditions.

Foundry Facilities Casting Development:

Our Engineer at SMS Gears makes use of advanced software like Solidworks for 3D Modelling and analysis. We follow best practices, control the process variables to eliminate potential defect prior to production and achieve short production time, reduced manufacturing costs.

SMS GEARS - Machine Shop	
Built Up Area	60,300 Sq.ft
Production Capacity	100 Gearboxes / month
Total Machines	60
Design & Simulation	Solidworks, AutoCAD

SMS ALLOYS - Foundry Division	
Built Up Area	20,000 Sq.ft
Installed Capacity	300 Tonnes / Annum
Installed Weight Limit Range	Maximum 350 Kg's a single piece casting
Captive Power (for 100% power backup)	150 Kva Diesel generator



QUALITY AND R&D FACILITY

Machine Shop Quality:

SMS Gears in-house R&D & Testing facility, where technical strength and striving for perfection has been the core objective. Hence, we have put in efforts to develop our Research & Development in conducting regular meeting and doing knowledge transfer along with testing excellence as a part of our infrastructure. Quality control and assurance starts right from raw materials and continue until the delivery of finished Gearboxes. With our quality experts, we conduct inspections on sample castings as per our inspection plans to ensure the dimensions match the drawings. All the materials are subjected to thorough quality checks, using highly precise measuring equipment.

Testing Equipment

Type	Range
Vernier	Upto 1 Meter: 40 nos
Micrometer	Upto 200mm: 40 nos
2d Height Gauge	2 Nos
Flange Micrometer	Upto 200mm: 10 Nos
CMM	700x1000x600
Rotary Head Tester	Upto 1500 Rpm
PTO Gearbox Tester	Upto 1500 Rpm with pneumatic gear shifter



Physical Testing

Physical Testing unit comprises of the following equipment calibrated under third party TUV, BVQI, DNV-GL, Lloyds & IBR.

Spectro Testing

BRUKER Q4 Tasman is used in our facility for testing all types of alloy steels.

Impact Testing

Impact testing machine with 0 - 300 Joules Charpy.



GEARBOX SPECIFICATIONS

SMS II Super DTH Rotary Head Gearbox

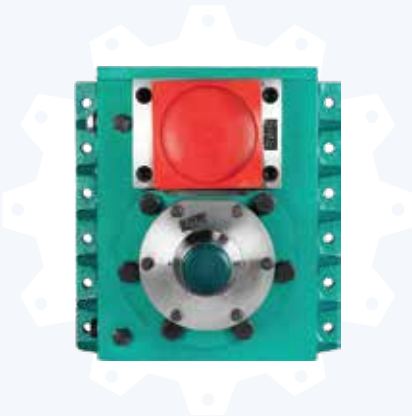


SMS II Super MUD Rotary Head Gearbox



Application	Domestic Waterwells, Piling, Solar, Exploration
Drilling Method	DTH / Rotary / Piling
Water well Maximum Depth	200m @ 165mm (6 1/2")
Piling Maximum Depth	1200m @ upto 30m (water assisted)
Ratio	3:1
Max RPM	0 - 120 rpm (Varies on Hydraulic motor selection)
Max Torque Capacity	2000 Nm (Varies on Hydraulic motor selection)
Motor Capacity	OMT Series (Danfoss)
Attachment	Integrated Water Swivel
Housing	Single Piece WCB Steel Casting
Flushing Hole Dia	40mm

SMS III Super DTH Rotary Head Gearbox



SMS III Super MUD Rotary Head Gearbox



Application	Domestic Waterwells, Piling, Solar, Exploration
Drilling Method	DTH / Rotary / Piling
Water well Maximum Depth	300m @ 165mm (6 1/2")
Piling Maximum Depth	1500m @ upto 30m (water assisted)
Ratio	3:1
Max RPM	0 - 120 rpm (Varies on Hydraulic motor selection)
Max Torque Capacity	2000 Nm (Varies on Hydraulic motor selection)
Motor Capacity	OMT Series (Danfoss)
Attachment	Integrated Water Swivel
Housing	Single Piece WCB Steel Casting
Flushing Hole Dia	40mm

SMS XL I Motor DTH Rotary Head- RHG100

SMS XL I Motor MUD Rotary Head- RHG101



Application	Domestic Waterwells
Drilling Method	DTH & Rotary Drilling
Water well Maximum Depth	500m @ 165mm (6 1/2")
Ratio	3:1
Max RPM	160 rpm (Varies on Hydraulic motor selection)
Max Torque Capacity	5000 Nm (Varies on Hydraulic motor selection)
Motor Capacity	OMV Series (Danfoss)
Attachment	OMV Series (Danfoss)
Housing	Single Piece WCB Steel Casting
Flushing Hole Dia	40mm
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SMS XL II Motor DTH Rotary head

SMS XL II Motor MUD Rotary head



Application	Domestic Waterwells
Drilling Method	DTH & Rotary Drilling
Water well Maximum Depth	600m @ 165mm (6 1/2")
Ratio	3:1
Max RPM	0 - 160 rpm (Varies on Hydraulic motor selection)
Max Torque Capacity	10000 Nm (Varies on Hydraulic motor selection)
Motor Capacity	2x OMT or OMV Series (Danfoss)
Attachment	Integrated Water Swivel, Plunger Lubricating system
Housing	Single Piece WCB Steel Casting
Flushing Hole Dia	40mm
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SMS Y-2 I Motor Rotary Head



Application	Domestic Waterwells, Piling, Blasting in Mines
Drilling Method	DTH / Rotary / Piling
Water well Maximum Depth	800m @ 165mm (6 ½")
Piling Maximum Depth	1500m @ upto 50m (water assisted)
Mining Maximum Depth	165 - 240mm (6 ½" – 9 ½")
Mining Single pass depth	10m
Ratio	3:1, 2:1
Max RPM	0- 200 rpm (Varies on Hydraulic motor selection)
Max Torque Capacity	2400 Nm (Varies on Hydraulic motor selection)
Motor Capacity	OMV Series (Danfoss)
Attachment	Integrated Water Swivel, Plunger Lubricating system
Spindle Dia	130mm

SMS Maxie H II Motor Rotary head



Application	Domestic Waterwells, Piling
Drilling Method	DTH / Rotary / Piling
Water well Maximum Depth	1500m @ 165mm (6 ½")
Piling Maximum Depth	1500m @ upto 50m (water assisted)
Ratio	3:1
Max RPM	0 - 160 rpm (Varies on Hydraulic motor selection)
Max Torque Capacity	10000 Nm (Varies on Hydraulic motor selection)
Motor Capacity	OMV Series (Danfoss)
Attachment	Integrated Water Swivel
Housing	Single Piece WCB Steel Casting
Flushing Hole Dia	40mm
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SMS Maxie V II Motor Rotary Head



Application	Domestic Waterwells, Piling
Drilling Method	DTH / Rotary / Piling
Water well Maximum Depth	1500m @ 165mm (6 ½")
Piling Maximum Depth	1500m @ upto 30m (water assisted)
Ratio	3:1
Max RPM	0 - 160 rpm (Varies on Hydraulic motor selection)
Max Torque Capacity	10000 Nm (Varies on Hydraulic motor selection)
Motor Capacity	OMV Series (Danfoss)
Attachment	Integrated Water Swivel
Housing	Single Piece WCB Steel Casting
Flushing Hole Dia	40mm
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SMS II Super Y Type DTH Rotary Head



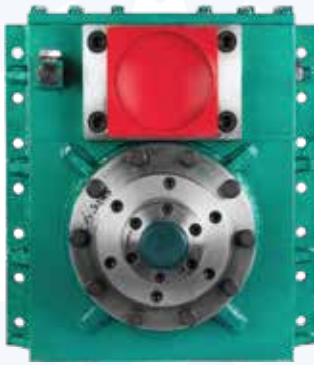
SMS II Super Y Type MUD Rotary Head



Application	Domestic Waterwells, Piling, Blasting in Mines
Drilling Method	DTH / Rotary / Piling
Water well Maximum Depth	500m @ 165mm (6 ½")
Piling Maximum Depth	1200m @ upto 30m (water assisted)
Mining Maximum Depth	115 - 165mm (4 ½" – 6 ½")
Mining Single pass depth	6.5m
Ratio	3:1, 2:1
Max Torque Capacity	0 - 180 rpm (Varies on Hydraulic motor selection)
Motor Capacity	OMT Series (Danfoss)
Attachment	Integrated Water Swivel, Plunger Lubricating system
Housing	Single Piece WCB Steel Casting
Spindle Dia	110mm

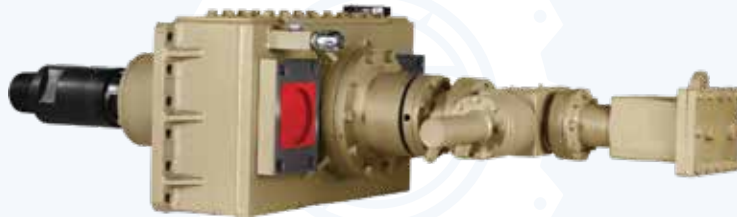
SMS III Super Y Type DTH Rotary Head Gearbox

SMS III Super Y Type MUD Rotary Head Gearbox



Application	Domestic Waterwells, Piling, Blasting in Mines
Drilling Method	DTH / Rotary / Piling
Water well Maximum Depth	600m @ 165mm (6 ½")
Piling Maximum Depth	1200m @ upto 30m (water assisted)
Mining Maximum Depth	115 - 165mm (4 ½" – 6 ½")
Mining Single pass depth	8.5m
Ratio	3:1, 2:1
Max RPM	0 - 250 rpm (Varies on Hydraulic motor selection)
Max Torque Capacity	3000 Nm (Varies on Hydraulic motor selection)
Motor Capacity	OMV Series (Danfoss)
Attachment	Integrated Water Swivel, Plunger Lubricating system
Spindle Dia	110mm

SMS RC Neo HD Rotary Head Gearbox



Application	Surface Exploration
Drilling Method	Reverse Circulation
Flushing Medium	Air
Maximum Drilling Depth	350m @ RC (5 ½")
Ratio	3:1
Max RPM	0- 160 rpm (Varies on Hydraulic motor selection)
Max Torque Capacity	10000 Nm (Varies on Hydraulic motor selection)
Motor Capacity	OMV Series (Danfoss)
Attachment	Dust Collector, Blow up and Blow down valve
Housing	Single Piece WCB Steel Casting
Flushing Hole Dia	40-45mm
Spindle Dia	130mm

SPLIT SHAFT PTO GEARBOX

SMS 2 Bore 2 Pump PTO Gearbox



Application	Domestic Waterwells
Ratio	1:1.15, 1:1.48
Max Power	upto 250 Hp
Max Output Rpm	1500 - 3000 Rpm
Max Number of Pumps	1 - 2 Pumps
Max Pump Capacity	6 - 65 Gpm
Pump Mounting	Front 1 / Rear 1
Drive	Truck Center Joint
Control Type	Pneumatic
Attachment	Single/ Double acting cylinder for Transmission
Housing	Single Piece WCB Steel Casting

SMS Dynamo Hybrid PTO Gearbox



Application	Domestic Waterwells (Support Vehicle)
Ratio	1:1.15, 1:1.5
Max Output Rpm	1500- 3000 Rpm
Max Power	Upto 220 Hp
Max Number of Pumps	1 Pump
Max Pump Capacity	6 - 50 Gpm
Pump Mounting	Front 1
Drive	Truck Center Joint
Attachment	Single/ Double acting cylinder for Transmission, V belt Pulley
Housing	Single Piece WCB Steel Casting

SMS II Super MUD Rotary Head Gearbox



Application	Portable Waterwell (Pickup Vehicle)
Ratio	1:1.15, 1:1.5
Max Output Rpm	1500- 3000 Rpm
Max Power	100 Hp
Max Number of Pumps	2 Pumps
Max Pump Capacity	6- 50 Gpm
Pump Mounting	Front 1 / Rear 1
Drive	Truck Center Joint
Attachment	Manual Shifting Rod
Housing	Single Piece WCB Steel Casting

Tractor 3 Bore 4 Pump Gearbox



Application	Domestic Waterwells
Ratio	1:1.15, 1:1.5
Max Output Rpm	1500- 3000 Rpm
Max Power	220 Hp
Max Number of Pumps	2 - 4 Pumps
Max Pump Capacity	6- 65 Gpm
Pump Mounting	Front 2 / Rear 2
Drive	Tractor Yoke Joint
Housing	Single Piece WCB Steel Casting

SMS 3 Bore 4 Pump PTO Gearbox



Application	Domestic Waterwells
Ratio	1:1.15, 1:1.5
Max Power	upto 500 Hp
Max Output Rpm	1500 - 3000 Rpm
Max Number of Pumps	2 - 4 Pumps
Max Pump Capacity	6 - 65 Gpm
Pump Mounting	Front 2 / Rear 2
Drive	Truck Center Joint
Control Type	Pneumatic
Attachment	Single/ Double acting cylinder for Transmission
Housing	Single Piece WCB Steel Casting
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SMS 3 Bore 4 Pump Deck PTO Gearbox



Application	Domestic Waterwells
Ratio	1:1.15, 1:1.48
Max Output Rpm	1500- 3000 Rpm
Max Power	upto 500 Hp
Max Number of Pumps	1 - 2 Pumps
Max Pump Capacity	6- 65 Gpm
Pump Mounting	Front 2 / Rear 2
Drive	Connected Directly to Deck Engine
Housing	Single Piece WCB Steel Casting
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SMS 3 Bore Hybrid 3 Pump PTO Gearbox



Application	Domestic Waterwells
Ratio	1:1.15, 1:1.5
Max Power	upto 500 Hp
Max Output Rpm	1500- 3000 Rpm
Max Number of Pumps	2- 3 Pumps
Max Pump Capacity	6- 65 Gpm
Pump Mounting	Front 2 / Rear 2
Drive	Truck Center Joint
Control Type	Pneumatic
Attachment	Single/ Double acting cylinder for Transmission, V belt Pulley
Housing	Single Piece WCB Steel Casting

WINCH GEARBOX

SMS Box Mounting Winch Gearbox



Application	Lifting in Drilling
Lifting capacity	800- 1000 Kg's
Drive	Hydraulic Motor
Ratio	18:1
Max Rpm	25
Max Torque	2000 Nm (Based on the selection of Hydraulic motor)
Drum Capacity	Upto 100m @ 6mm steel rope
Gearbox Weight	50 Kg's
Oil Capacity	3 Litres (Mobil ISO VG-320)

PUMP DRIVE GEARBOX

SMS DE 4 Pump Drive Gearbox



Application

Core Drilling Machine, Street Cleaning Truck, Shunting Locomotive, Water Jetting Truck, Vacuum Truck, Silage Cutter

Pump Capacity

4 pumps

Pump Range

6- 65 Gpm

Engine Capacity

upto 500 Hp

Weight

250 kg

Sense of Rotation

Opposite of Engine Shaft

Warranty

1 Year Warranty, 10 Years Spare Part Back Up

Flywheel Number

SAE 0, SAE 1, SAE 2, SAE 3, SAE 4

Bell Housing Number

21, 18, 14, 11, 5, 10, 8

SMS DE 4 Pump Drive Gearbox



Application

Core Drilling Machine, Street Cleaning Truck, Shunting Locomotive, Water Jetting Truck, Vacuum Truck, Silage Cutter

Pump Capacity

2 pumps

Pump Range

6- 65 Gpm

Engine Capacity

upto 250 Hp

Weight

250 kg

Sense of Rotation

Opposite of Engine Shaft

Warranty

1 Year Warranty, 10 Years Spare Part Back Up

Flywheel Number

SAE 0, SAE 1, SAE 2, SAE 3, SAE 4

Bell Housing Number

21, 18, 14, 11, 5, 10, 8

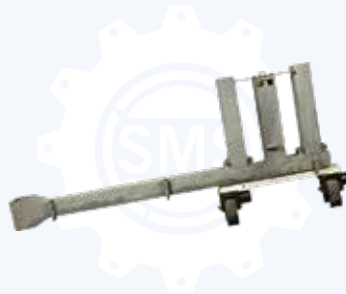
SMS CUSTOM PRODUCTS

SMS Rear Robo Vehicle Axle Drive Gearbox



Application	Crawler/ Robo Vehicle drive gearbox
Gearbox Drive	Hydraulic Motor
Ratio	18:1
Hydraulic Motor	2x OMS, OMT Series Hydraulic Motor
Travel Speed	20 m/s
Connection	Connected to Machines rear axle

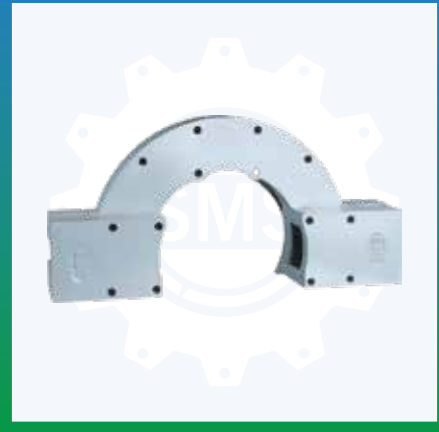
SMS Auto Loader Unit



Application	Rod Handling- Water well/ Core drilling/ Surface Exploration
Handling Capacity	6.1 Mtr with 2 Gripper
Swing	Equipped with swing option 0-90 for coupling of drill rods to the drill head
Control system	Rod changer is controlled by PLC System along with solenoid valve
Attachment	Provision upto 400 mtrs drill pipe
Lifting capacity	100 kg's
Attachments	Tapper guide moving block, Rod Guide mast, Rotating gearbox, 0-90° Swing Unit, Rod catcher unit
Warranty	1 Year Warranty, 10 Years Spare Part Back Up

DRILLING ACCESSORIES

Rod Guide Half Round Bracket



Auto Gate Valve



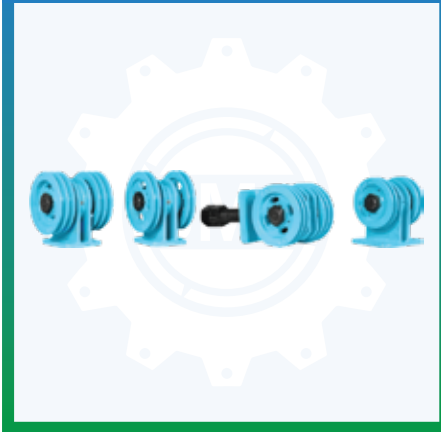
Vaccum Air Cylinder



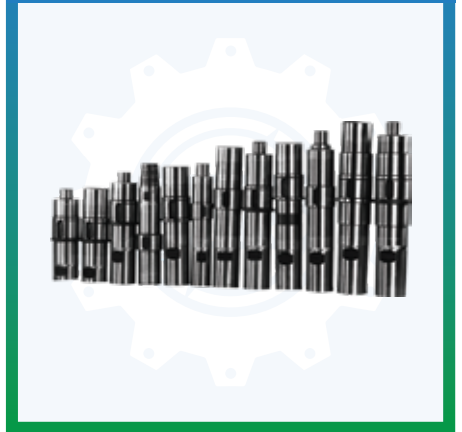
Pulley set assemble



Pulley set assemble



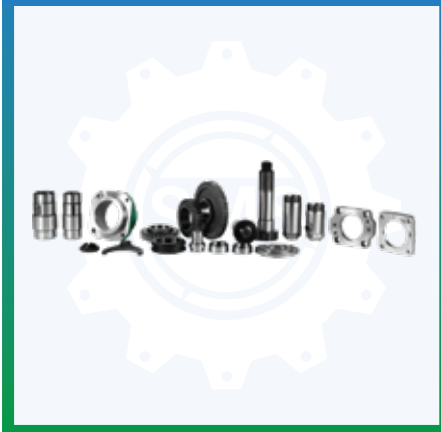
Spindles



Rotary head spares



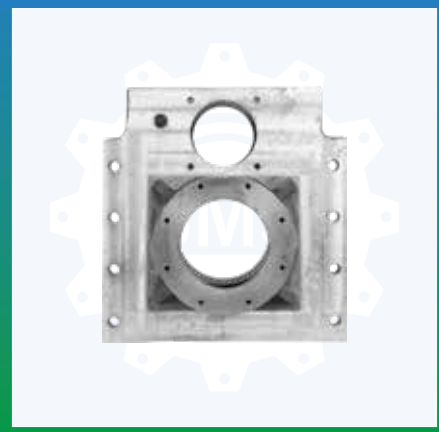
PTO Gearbox Spares



Gearwheels



Gearbox Housing



Sensor Rod Changer Spares



Adaptors





SMS GEARS
— DRILL TO THE CORE —



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