SAMAVICH
TECHNOLOGIES

PRODUCT CATALOGUE · 2026



● ROTARY & DTH DRILLING

Absorb the impact. Protect the rig.

Shock absorbers, the weld-free Safe-Lock, borehole absorbers, centralisers and adapters — engineered to work together, from rotary head to bit.

www.samavich.com · Made in India


SHOCK ABSORBERS


SAFE-LOCK


BOREHOLE ABSORBER

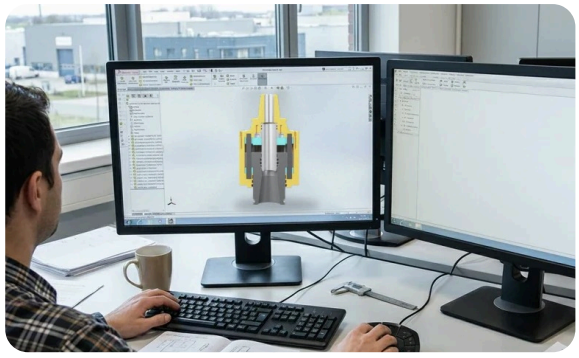

CENTRALISERS


ADAPTERS

ABOUT US

Precision-driven engineering.

Samavich Technologies is an engineering-first manufacturer of drill-string consumables, built for the world's toughest drilling environments — designed, validated and supported by our own engineers. Made in India, for mines everywhere.



13+ yrs
International drilling experience

110,000 lbf
Max rig pulldown, SC100

5
Product lines, from rotary head to bit

4
Shock absorber models, SC25 to SC100

01

Who we are
A specialised manufacturer of drill-string consumables for mining, focused relentlessly on field efficiency.

02

Expertise
Rotary and DTH drilling, mechanical design and material validation to cut operational downtime.

03

The founders
Drilling and mechanical engineers with 13+ years of international experience in rotary and DTH drilling.

04

Manufacturing
MIDC Kupwad, Sangli, Maharashtra, India.

Vision
The recognised global partner for mining companies and drilling OEMs, setting the standard in precision-engineered consumables.

Mission
Enhancing drilling productivity through engineering excellence and customer-focused solutions for the toughest mines.

Reliability · Innovation · Integrity · Quality · Knowledge · Agility

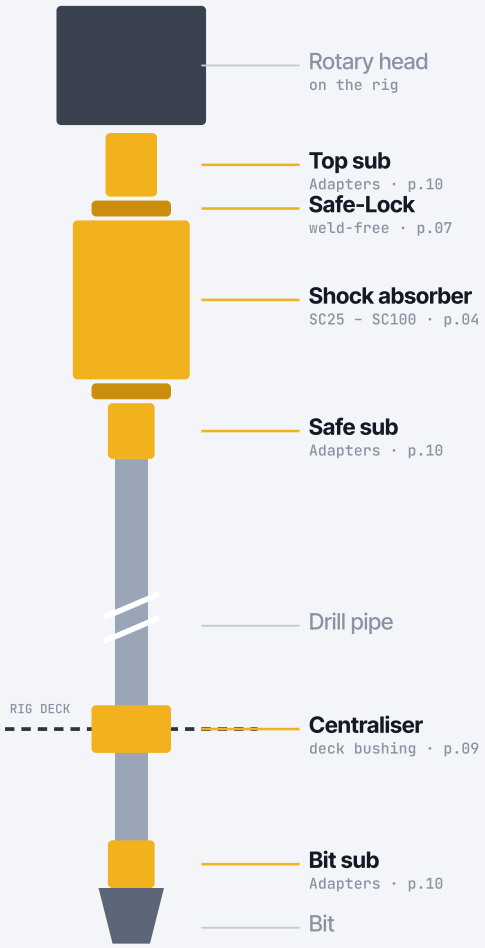
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THE PRODUCT RANGE

Everything between rotary head and bit.

Five product lines, engineered to work together in high-grade steel for rotary and DTH rigs. Gold marks where Samavich products sit in the drill string.





Shock absorbers

Rotary & DTH shock absorbers for rig pulldown up to 110,000 lbf.

PAGE 04 →



Safe-Lock

A mechanical clamp connection that replaces welding at critical drill-string joints.

PAGE 07 →



Borehole absorber

A compact, budget-friendly absorber for DTH water-well and exploration drilling.

PAGE 08 →



Centralisers

Deck bushings that keep the string aligned, cut friction and protect borehole straightness.

PAGE 09 →



Adapters

Top subs, bit subs and Safe subs in high-grade alloy steel — any thread, any rig.

PAGE 10 →

ROTARY & DTH DRILLING

Shock absorbers built to take the hit.

Samavich shock absorbers fit between the rotary head and the drill string. A floating piston and layered cushions take the shock and vibration of every impact — protecting the rotary head, the threads and the bit.



SC25 – SC100
four models

110,000 lbf
max rig pulldown (489 kN)

6+ months
without upkeep*

Rotary & DTH
vertical or angled drilling

Every model is available with the optional Safe-Lock
A mechanical clamp connection that removes welding at the rotary head bull shaft and the top adapter — see page 07.

Built to work hard. Not to be serviced.

01
Protects the rotary head
Drastically reduces the shock and vibration that reach the rotary head, preventing premature failure.

02
Faster penetration
Keeps uniform pressure on the bit for higher penetration rates and longer bit life.

03
Thread protection
The floating piston allows axial travel, protecting threads during make-up and break-out.

04
Maintenance-free
Rugged, sealed construction — at least six months without upkeep, depending on mine conditions.

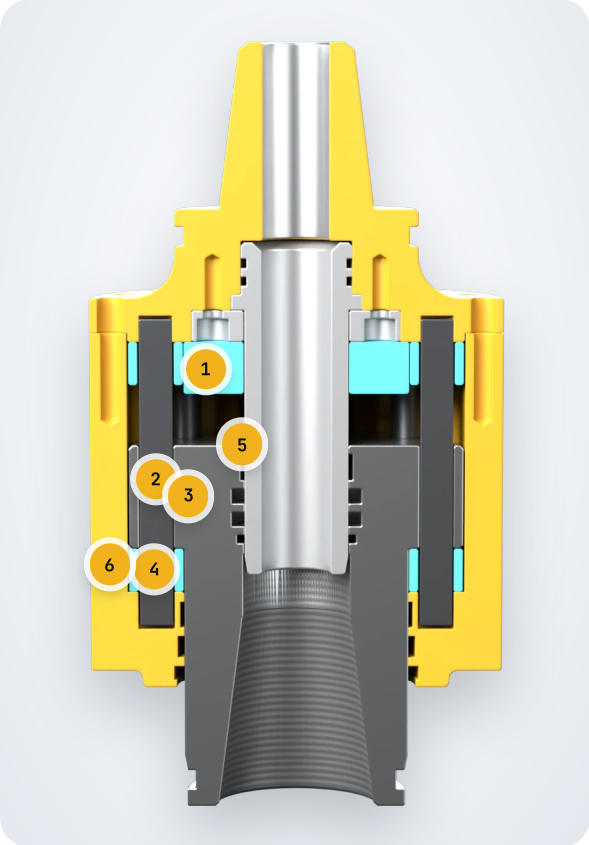
05
Any angle
Supports vertical and angled drilling; fully compatible with rotary and DTH drill strings.

06
No-weld option
The optional Safe-Lock removes welding at the rotary head shaft and the top adapter.

*Maintenance interval depends on mine conditions.

SECTION A–A

What's inside — and how it works.



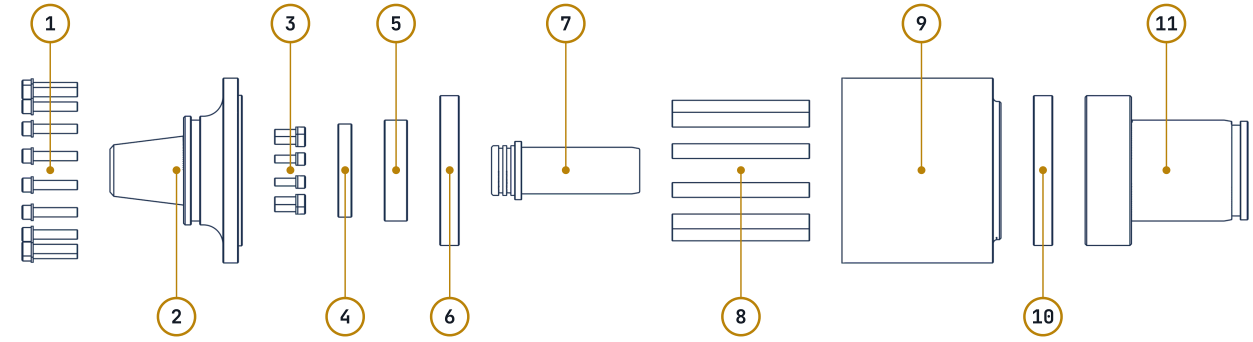
1. **Top cushion** — Absorbs axial shock
2. **Pins** — Carry the drilling torque
3. **Floating piston** — Box thread to the drill string
4. **Bottom cushion** — Absorber pad on the return
5. **Transfer pipe** — Air passage through the tool
6. **Housing** — Outer body

How it works

1. Every blow of the bit sends a shock up the drill string.
2. The floating piston travels into the housing, guided by the pins that carry the torque.
3. The layered cushions compress and absorb the shock.
4. The rotary head, threads and mast stay protected — and the bit keeps uniform pressure.

Eleven precision parts

Exploded view of the SC shock absorber, drawn from the CAD model.



1 Screws
Clamp the adapter flange

2 Adapter flange
Pin thread to the rotary head

3 Screws
Internal fasteners

4 Holding plate
Bears on the cushions

5 Top cushion
Absorbs axial shock

6 Top cushion
Absorber pad

7 Transfer pipe
Air passage through the tool

8 Pins
Carry the drilling torque

9 Housing
Outer body

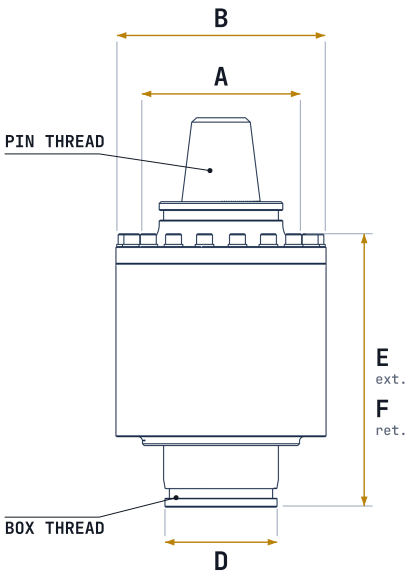
10 Bottom cushion
Absorber pad on the return

11 Floating piston
Box thread to the drill string

MODELS & SPECIFICATIONS

Choose your absorber.

Four models cover rig pulldown up to 110,000 lbf, for rotary and DTH drilling. Pin and box threads are made to suit your rig.



MODEL	SC25	SC50	SC75	SC100
Rig pulldown lbf	up to 30,000 up to 133 kN	25,000–55,000 111–245 kN	50,000–80,000 222–356 kN	80,000–110,000 356–489 kN
Approx. weight	60 kg	95 kg	150 kg	250 kg
A — pin end	4.5" 114 mm	6" 152 mm	7" 178 mm	8" 203 mm
B — housing dia.	9" 229 mm	10" 254 mm	11" 279 mm	14" 356 mm
D — box end	4.5" 114 mm	6" 152 mm	7" 178 mm	8" 203 mm
E — extended	15" 381 mm	16" 406 mm	17" 432 mm	22" 559 mm
F — retracted	13.5" 343 mm	14.5" 368 mm	15.5" 394 mm	20" 508 mm
Pin / box thread	As per rig	As per rig	As per rig	As per rig

Compatible rigs

SC25
DI650i · D65

SC50
DR410i · D25KX · D245X · D45KS · D50KS · D55SP · DM30 · DM45 · DM50

SC75
DR411i · D75KX · DML · PV231 · PV235 · PV271 · PV275 · DM75

SC100
DR412i · DR413i · PV291 · DM-M3

Ordering details

To recommend the right model and threads, send us:

- Rig model
- Rotary head thread
- Rotary head shaft diameter
- Top sub diameter
- Top sub thread
- Possible shock-sub length (E)
- Possible housing diameter

Optional Safe-Lock

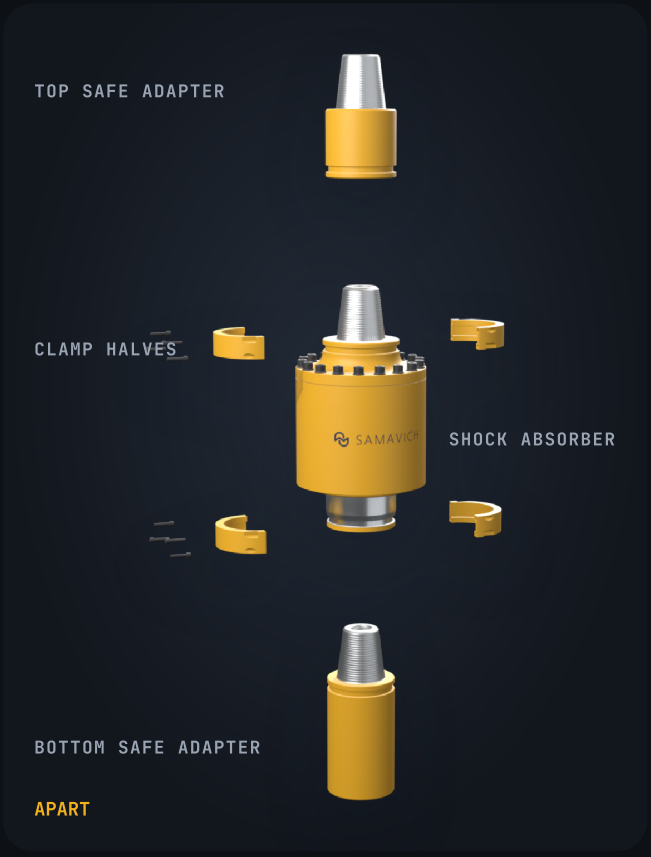
Available on every model — clamp halves that remove welding at the rotary head shaft and the top adapter. See page 07.

All values are approximate and will be adapted to suit each application. Rig model names are trademarks of their respective owners and are used for compatibility reference only.

SAFE-LOCK · OPTIONAL

Locked in seconds. Never welded.

A mechanical coupling that replaces welding at critical drill-string connection points. Clamp halves lock the top and bottom safe adapters to the shock absorber — reversible, modular and strong.





01

Weld-free integration

No welding between the rotary head bull shaft, the shock absorber and the top adapter.

02

Structural integrity

No heat-affected zones, so the steel keeps its original strength.

03

Modular maintenance

Quick, reversible assembly — inspect and replace without destructive cutting.

01

Operational safety

No hot work on site: removes the fire risk and hazards of welding.

02

Light and easy to handle

Clamp halves and screws that one crew can fit quickly.

Universal fit

Optional on all Samavich rotary and DTH shock absorbers, SC25 to SC100.

PRODUCT 03 · DTH

Borehole absorber.

A compact, budget-friendly dampening solution optimised for DTH applications where space and efficiency matter.



ALTERNATE VIEW



Typical applications

- DTH water-well drilling
- Exploration drilling
- Compact DTH rigs

01

Optimised for DTH

Designed for down-the-hole drill strings in water-well and exploration work.

02

Compact and robust

Small footprint for easy handling, with budget-friendly engineering.

03

Protects the mast

Reduces the shock transmitted to the drill mast.

04

Maintenance-free

Sealed for maintenance-free reliability.

Made to suit your rig

Tell us your rig model, hammer size and thread connections — our engineers will size the borehole absorber for your drill string.

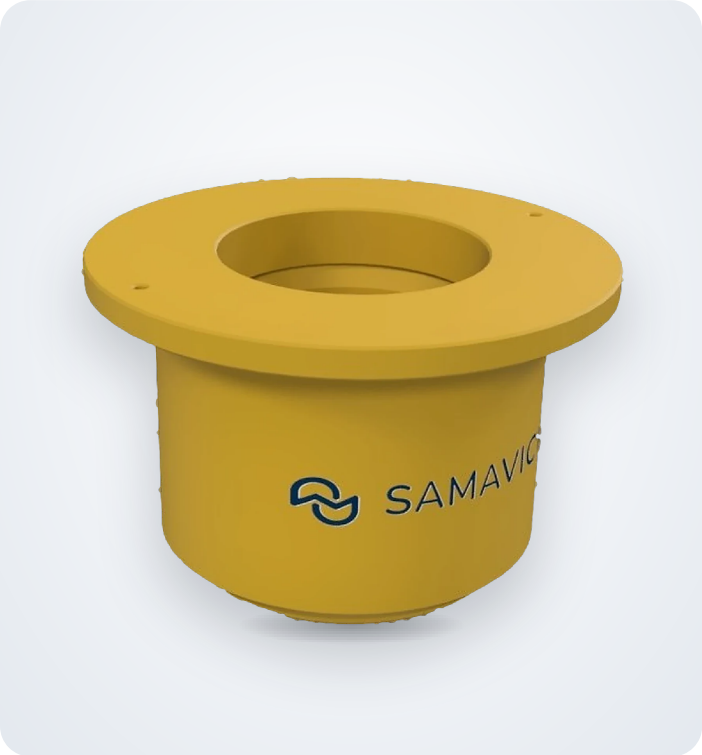
info@samavich.com
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Sizes and threads are configured per application.

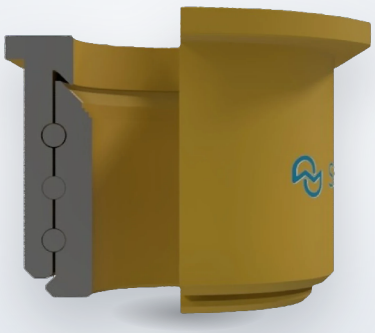
PRODUCT 04 · DECK BUSHINGS

Centralisers.

Precision centralisers keep the drill string aligned — reducing lateral vibration, drill-pipe wear and friction, and protecting borehole straightness.



SECTION



ALTERNATE VIEW



01
High-alloy hardened steel
Maximum tool life in abrasive environments.

02
Rotating & non-rotating
Both versions available.

03
Built-in wear indicator
Signals replacement before failure.

04
Three heavy-duty bearing rows
Handle heavy loads while rotating smoothly.

05
Changeable sleeves
Rapid servicing and extended core-tool life.

06
Straighter holes
Better alignment protects borehole straightness.

Made to suit your rig
Send us your rig model, deck bushing size and drill-pipe diameter — we will recommend the right centraliser.

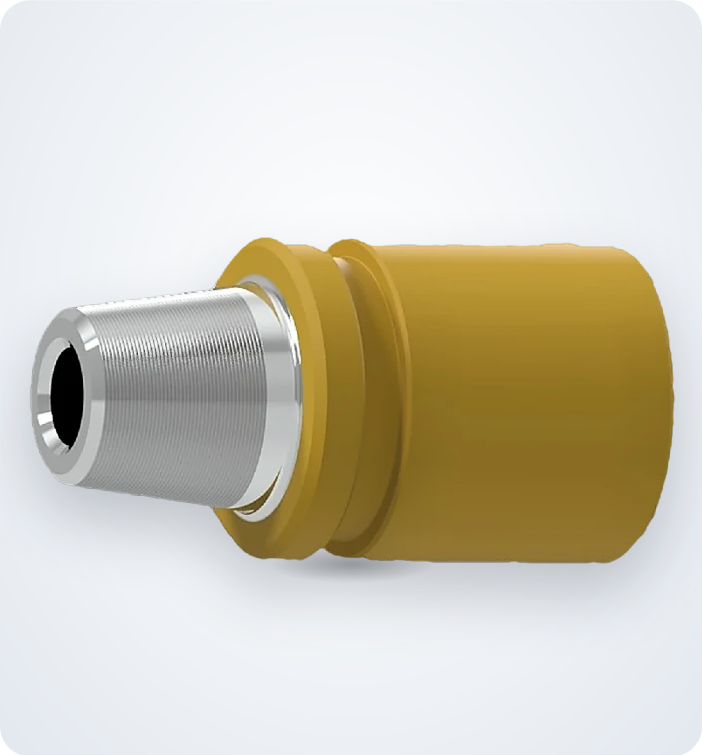
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Sizes are configured per rig and drill-pipe diameter.

PRODUCT 05 · SUBS

Adapters.

High-grade alloy steel adapters for seamless compatibility across rotary and DTH configurations — in standard industrial threads and a wide range of diameters and lengths.



TOP / BIT SUB



SIDE VIEW



01

Top sub

Connects the rotary head to the shock absorber or the top of the drill string.

02

Bit sub

A heavy-duty bridge between the drill collar and the bit.

03

Safe sub

Safety adapter for weld-free integration with the Safe-Lock.

04

Any thread, any size

Standard industrial threads, in a wide range of diameters and lengths.

Made to suit your rig

Send us both thread connections, the outside diameter and the length you need — or a drawing of your current sub.

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ORDERING

Tell us about your drill string.

Every Samavich product is matched to your rig. Use the checklist below, or send the enquiry form — our engineering desk answers every enquiry personally.

01
Tell us about your rig
Rig model, rotary head thread and bit size are enough for our engineers to start.

02
We recommend
The right model, threads and options — including the Safe-Lock.

03
Quotation
A clear quote with specifications for your approval.

04
Manufacture & dispatch
Made to suit your application and supported by our engineers.

Shock absorber checklist

- Rig model
- Rotary head thread
- Rotary head shaft diameter
- Top sub diameter
- Top sub thread
- Possible shock-sub length (E)
- Possible housing diameter
- Optional Safe-Lock — yes / no
- Quantity and required delivery

Other products

- Borehole absorber — rig model, hammer size, thread connections
- Centralisers — rig model, deck bushing size, drill-pipe diameter
- Adapters — both threads, outside diameter, length (or a drawing)
- Safe-Lock — absorber model and adapter threads

DEALERS & DISTRIBUTORS

Bring Samavich to your market.

We are looking for established dealers and distributors who want to grow with in-demand drilling products, backed by full technical and commercial support from our engineers.

- Portfolio growth
- Technical support
- Quality assured
- Five products, one drill string

Request a quote or become a dealer

Email us or message our team on WhatsApp. Scan the code to visit our website.

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SAMAVICH
TECHNOLOGIES

Absorb the impact.
Protect the rig.

Rotary & DTH shock absorbers · Safe-Lock · Borehole absorbers · Centralisers · Adapters

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