

# Atlas Copco Rock Reinforcement

## MAI Systems® SDA® R 25

The **Atlas Copco MAI® Self-Drilling Anchor** is a unique anchoring system and is today's answer to the increasing demands of the tunnelling industry and ground engineering for safer and faster production.

The system provides advantages for all areas of its applications, where boreholes would require the time consuming drilling with casing systems in unconsolidated or cohesive soil.

### Features and Advantages

- Fits Atlas Copco standard Boomer, ROC and Mustang rigs.
- Particularly suitable for difficult ground conditions.
- A high rate of installation since drilling, placing and grouting can be performed in one single operation.
- Self drilling system eliminates the requirement for a cased borehole.
- Installation with simultaneous drilling and grouting possible.
- Easy installation in all directions, also upwards.
- Suitable for working in limited space, height and in areas of difficult access.
- Simple post grouting system.
- Hot-dipped galvanizing for corrosion protection

### Applications

#### Tunnelling

- Radial bolting
- Forepoling
- Face stabilization
- Portal preparation

#### Ground engineering

- Slope stabilization
- Micro injection pile
- Temporary support anchor
- Soil nailing



### SPECIFICATIONS

#### TECHNICAL DATA

Outside diameter.....	<b>R 25</b> 25 mm
Internal diameter, average.....	14 mm
External diameter, effective.....	22.5 mm
Effective cross sectional area, average.....	244 mm <sup>2</sup>
Ultimate load capacity.....	200 kN
Yield load capacity.....	150 kN
Average tensile strength, Rm.....	805 N/mm <sup>2</sup>
Average yield strength, Rp0,2.....	660 N/mm <sup>2</sup>
Weight.....	2.3 kg/m

#### GENERAL DATA

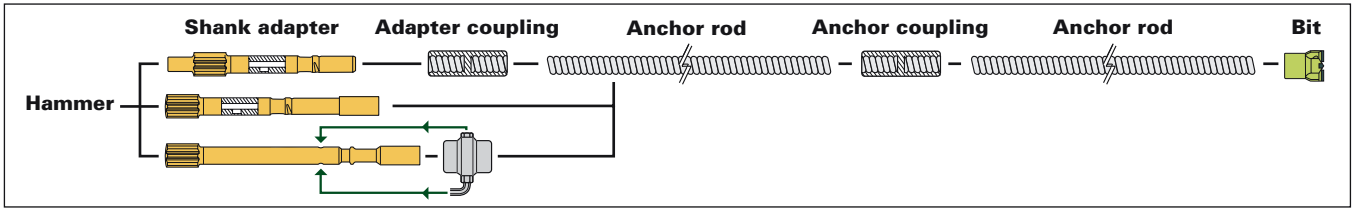
Type of steel.....	EN 10083-1
Thread type.....	R25. ISO 10208

## Atlas Copco MAI Systems® SDA®

MAI® - SDA® Anker (Self Drilling Hollow Core Anchor)

A Hollow Core Anchor system as self drilling rock bolt for tunnelling in accordance with DIN 21521

# MAI Systems<sup>®</sup> SDA<sup>®</sup> R 25



## ANCHOR ROD R25

	Outside diameter	Average internal diameter	Effective external diameter	Aver. eff cross sectional area	Ultimate load capacity	Yield load capacity	Average tensile strength Rm	Average yield strength Rp0,2	Weight
	mm	mm	mm	mm <sup>2</sup>	kN	kN	N/mm <sup>2</sup>	N/mm <sup>2</sup>	kg/m
<b>R25</b>	25	14	22.5	244	200	150	805	660	2.3
Part number									
	1 meter long	2 meter long	3 meter long	4 meter long	6 meter long				
<b>R25</b>	9899101127	9899100751	9899100750	9899100752	-				
<b>R25 gal.</b>	9899101129	9899101130	9899101131	9899101132	-				

## ANCHOR COUPLING R25

	Diam. mm	Length mm	Part number	Kg	Type	
<b>R25</b>	34	150	9899700032	0.58	NG Type	Machined steel coupling with patented middle stop
<b>R25 gal.</b>	35	150	9899102147	0.58	SM Type	Machined steel coupling hot dip galvanized

## NUT R25

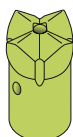
	Key size mm	Length mm	Part number	Kg	Type
<b>R25</b>	41	35	9899100762	0.25	Machined steel nut
<b>R25 gal.</b>	41	35	9899101136	0.25	Machined steel nut hot dip galvanized

## ANCHOR PLATE R25

	Dimension mm	Thickness mm	Part number	Kg	Hole diam. mm
<b>R25</b>	150 x 150	8	9899100795	1.40	30
	200 x 200	10	9899100796	3.10	30
<b>R25 gal.</b>	150 x 150	8	9899101137	1.40	30
	200 x 200	10	9899102667	3.10	30

## DRILL BIT R25

	Description	Kg	Diam. mm	Part number	Type	
<b>R25</b>	R25/Ø42/X	0.35	42	9899100777	X Type	Forged cross bit for sand and gravel.
	R25/Ø51/X	0.38	51	9899100778	X Type	Forged cross bit for sand and gravel.
	R25/Ø42/EX	0.20	42	9899100780	EX Type	Hardened cross bit for loose to medium dense conditions with small boulders.
	R25/Ø51/EX	0.46	51	9899101506	EX Type	Hardened cross bit for loose to medium dense conditions with small boulders.
	R25/Ø42/EXX	0.21	42	9899101606	EXX Type	TC cross bit for soft to medium rock formations.



X Type



EX Type



EXX Type