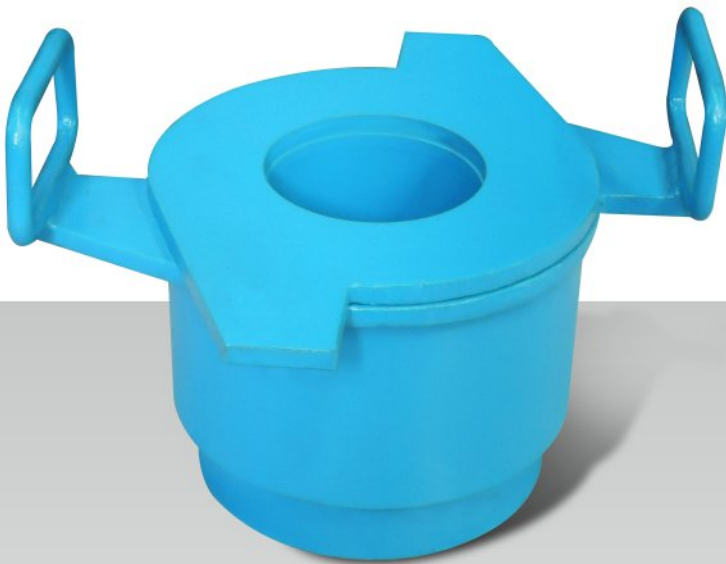
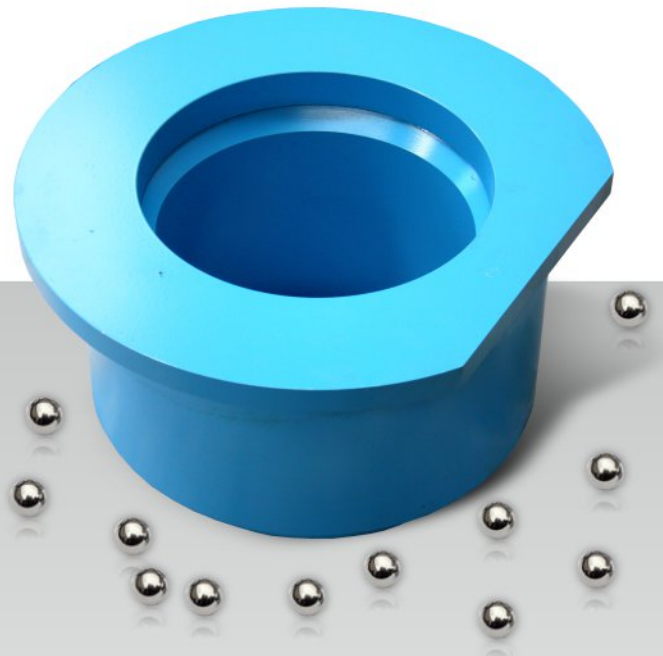


STATIC AND ROTARY DECK BUSHINGS



Static Bushing



Rotary Deck Bushing



VULCAN OFFERINGS

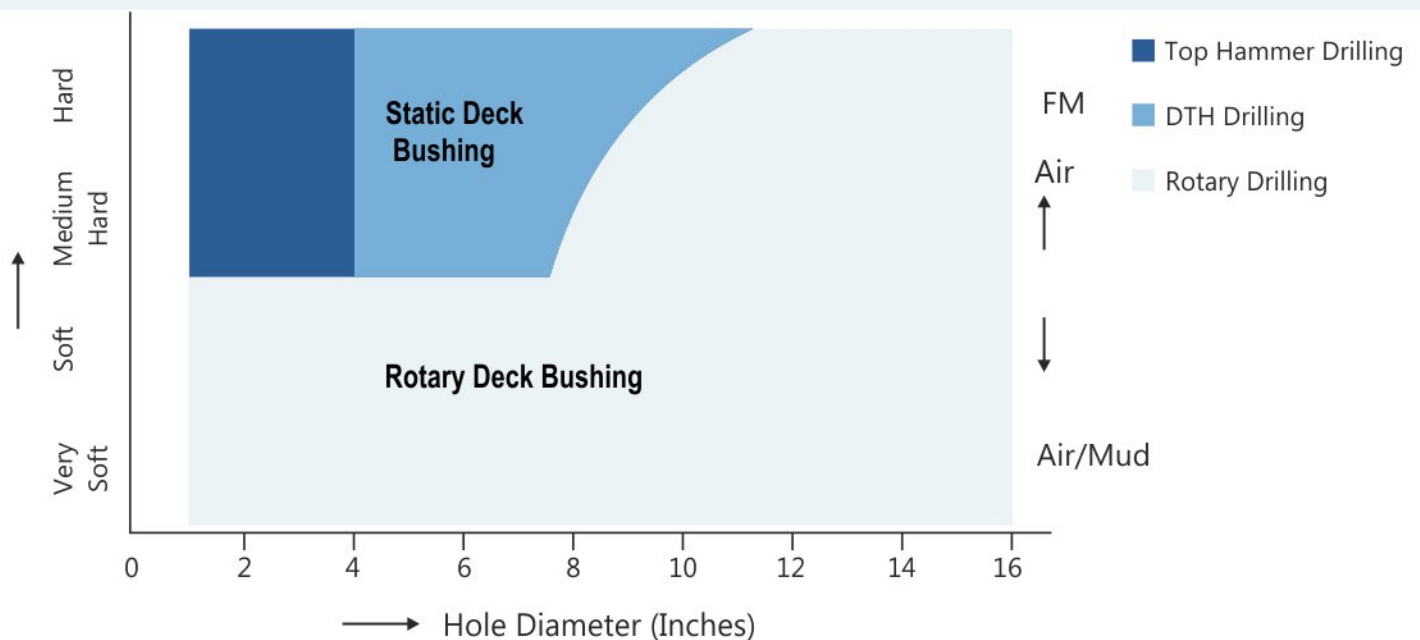
Based on the information collected over last four decades, Vulcan has standardized the offerings in two product groups. A broad classification is listed below:

Description	STATIC DECK BUSHING		ROTARY DECK BUSHING	
	VStandard	VMAX	VStandard	VMAX
Inner Sleeve	-	✓	✓	✓
Case hardened Inner Sleeve	-	-	-	✓
Cutting Deflectors	✓	✓	✓	✓
Bearing Balls	-	-	Chrome-Moly	Tool Steel
Repairable	-	✓	-	✓

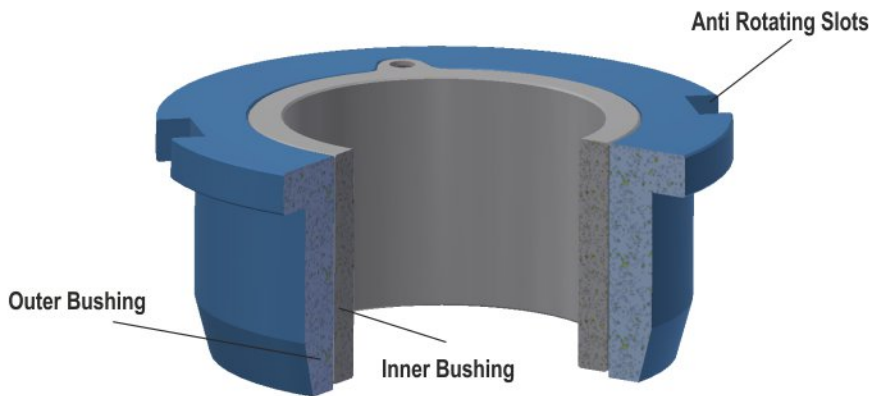
A VMAX static bushing consists of a replaceable sleeve that can be used multiple times. By using matching sleeves, even a smaller diameter drill pipe can be used. All of our rotary deck bushings have a standard feature of replaceable inner sleeves. Our VMAX deck bushing sleeves are additionally heat treated to induce the case depth and to increase the wear properties. All deck bushings have cutting deflectors to prevent cuttings from entering the inner bushing.

SELECTION GUIDE FOR DECK BUSHING

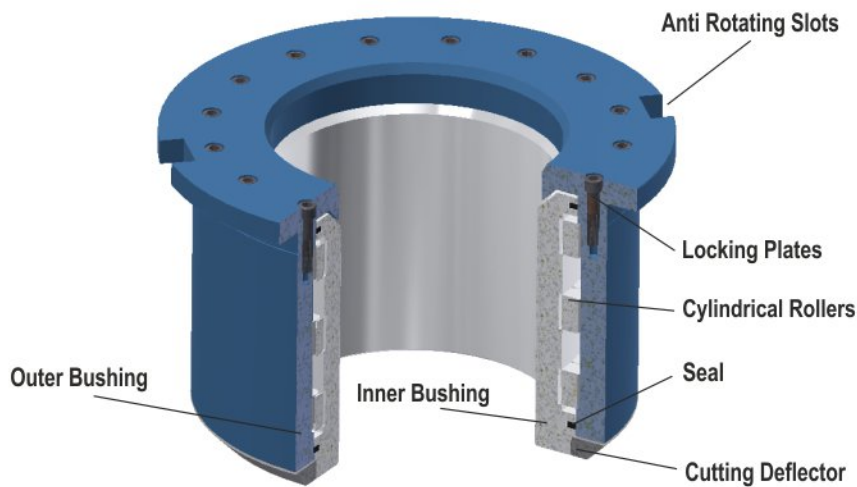
We have superimposed the most cost effective drilling methods with the choice of the correct Deck Bushing specification to help you find the right solution for your needs.



CROSS SECTIONAL VIEW OF VMAX STATIC DECK BUSHINGS



CROSS SECTIONAL VIEW OF VMAX ROTARY DECK BUSHINGS



Models available for following drills:

- Atlas Copco: DM25, DM30, DM45, DM50, T4BH, DML, DMM 2&3, DMH, PV 271, PV 275, PV 351
- Bucyrus International: BE-35R, 45R, 47R, 49R, 55R, 59R, 60R, 61R
- P & H/GD: GD70, GDCL90, GD100, GD120, P&H100XB, P&H120A, GD250XP, GD120A
- Tamrock - Drilltech, Sandvik: D25K, D40K, D245, D45K, D50K, D55SP, D60K, D75K, D90K, 1190E
- Terex – Reedrill : SKT, SKF, SKS

Inquiries:

Please specify the following:

- Type of Deck Bushing
- Type of Vulcan offering
- Outside diameter
- Inside diameter / diameter of tubes to be handled
- Details of slotting required
- Top flange dimensions
- Any special features required



ISO 9001:2008

CERTIFICATE OF REGISTRATION

THIS IS TO CERTIFY THAT THE QUALITY MANAGEMENT SYSTEM OF

Vulcan Industrial Engineering Co. Limited

Site:- Unit-III, Survey No:1991, Office:- A-2 / 448, G. I. D.C.,
Sunav-Kasor Road, Piplav V.U.Nagar
Dist.- Anand - 388460 Dist. - Anand - 388121,
Gujarat Gujarat
INDIA INDIA

This has been assessed and registered as complying with the requirements of the International Standard shown above for the following Goods and Services. Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2008 requirements may be obtained by consulting the organisation.

Design, Development, Manufacture and Supply of Drilling Accessories, Heavy Earth Moving Machine (HEMM) Spares, Industrial Gear Boxes and refurbishing of HEMM Equipment and Gear Boxes. (Originally certified by ISC on 26/Jun/2003 as per ISO 9001:2000 requirements)



www.jas-anz.org/registr

Signature

Tony Wilde
CEO - Group Chairman
ISC Pty Ltd, A.B.N. 31 285 846 984

Registration Number: QAC/891/0499
Original Registration Date: 26/Aug/2009
Re-certification Date: 12/Jul/2012
Expiry Date: 26/Jun/2015
Serial Number: 1903

ISC Pty Ltd, Unit 2/10 Gladstone Road, Castle Hill NSW 2154, Sydney, Australia.



International Standards Certifications Pty. Ltd.

This certificate is valid for 3 years from the date of certification on the condition that audits are conducted and paid for as per the Certification Agreement. Should this condition not be met, cancellation procedures will be initiated and the client will be removed from the JAS-ANZ register. This Certificate remains the property of International Standards Certifications Pty Ltd and must be returned upon request. It must not be altered in any way. Intentional misuse of this certificate will result in cancellation without prior notification. Certificates can be checked through certcheck@isc-worldwide.com

Vulcan's Deck Bushing Advantages:

- 1 Low maintenance and repairable (VMAX offerings).
- 2 Our unique design on Rotary Deck Bushings enhances the radial and axial loads.
- 3 Special mechanical seals enhance the life of the VMAX Rotary Deck Bushings.
- 4 Reduces the friction to the drill string components which allows greater drilling speeds
- 5 Provides stabilization in drill collaring and reduces vibrations.
- 6 Increases bit life.
- 7 Efficient & reliable delivery times.
- 8 Adherence to the highest global quality standards.
 - ISO 9001:2008 Certifications



VULCAN
INDUSTRIAL
ENGG. CO. LTD
AN ISO 9001 COMPANY

Authorized Distributor

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