

CARBIDE BURS



AUTOMOTIVE



AEROSPACE



DIE AND MOLD



MEDICAL



MACHINE TOOL
INDUSTRY

CARBIDE BURS

- Complete selection of shapes and cut styles for every metal-removing application
- Solid-shank and braze-on steel styles
- Top-quality materials and construction deliver exceptional tool life
- Wide array of sizes and shank lengths
- USCTI codes easily identified



RKS INDUSTRIAL • www.rksindustrial.com

RKS
INDUSTRIAL









Burs	Series Number	Page Number
Cylindrical with no end cut	SA	05
Cylindrical with end cut	SB	05
Cylindrical Ball Nose	SC	06
Round	SD	06
Egg Shaped	SE	07
Round Nose Tree	SF	07
Pointed Nose Tree	SG	08
Flame Shaped	SH	08
Included Angle	SL	09
Pointed Cone	SM	09
Inverted Taper	SN	10
Internal Threaded Shank	IGT	10
Internal Grinding Tool	ITS	11

For styles SJ, SK, and ST burs, see page 155, Series CS-M and CS-MM multi-flute countersinks.






Bur Technical Data

Bur Cut Styles	04
Bur Shank Styles	04
Bur Cutting Speeds	04

Burs

	Series Number	Page Number
	SA Cylindrical with no end cut.....	05
	SB Cylindrical with end cut	05
	SC Cylindrical Ball Nose	06
	SD Round	06
	SE Egg.....	07
	SF Round Nose Tree.....	07
	SG Pointed Nose Tree	08
	SH Flame	08

Burs

	Series Number	Page Number
	SL Included Angle.....	09
	SM Pointed Cone	09
	SN Inverted Taper.....	10
	IGT Internal Threaded Shank.....	10
	ITS Internal Grinding Tool.....	11
	Bur Cut Styles.....	04
	Bur Shank Styles.....	04
	Bur Cutting Speeds.....	04

Bur Technical Data

Technical Support Telephone: (844) 432 5164 • 135 2613/14

Standard Cut Styles

Standard Cut (Right-Hand Spiral)

Metal Removal's Standard (right-hand spiral) Cut produces a smooth finish for general-purpose use on steel, cast iron and other ferrous and non-ferrous materials. Most Metal Removal carbide burs are available in the right-hand spiral design.



Master Cut (Double Cut)

Metal Removal's exclusive Master Cut, with its chisel-type cutting edge, is a machine ground tool built to exacting tolerances of concentricity, size and shape. This accuracy, when combined with precision grinders, results in smooth-running, fast metal removal and fine finishes. The right- and left-hand helical flutes combine to produce a chisel-type cutting tooth. This results in faster penetration and stock removal with minimal bounce or chatter.

The Master Cut design also produces an easy-to-handle granular-type chip in most metals, as opposed to the conventional sliver-type chips.

Throughout its life, the Master Cut gives faster stock removal and less operator fatigue, and maintains a good finish on the widest possible variety of workpiece materials.



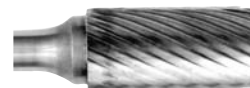
Bur Cutting Speeds

Bur Diameter	Recommended Cutting Speed (RPM)	Maximum Cutting Speed (RPM)
1/4	30,000 - 50,000	70,000
5/16	20,000 - 40,000	68,000
3/8	20,000 - 40,000	66,000
7/16	15,000 - 40,000	58,000
1/2	15,000 - 40,000	50,000
5/8	12,000 - 25,000	40,000
3/4	10,000 - 20,000	33,000
1	7,500 - 20,000	25,000
1-1/8	7,000 - 13,000	20,000
1-1/2	5,000 - 10,000	17,000
1-3/4	4,500 - 9,000	14,000
2	4,000 - 8,000	12,500

Special Cut Styles

Coarse Cut

Coarse Cut burs are favored for applications in softer materials such as brass, lead, annealed low-carbon steels and some aluminum alloys. The combination of fewer flutes with greater depths provides chip clearance necessary for these materials. Available as specials.



Fine Cut RHS

Metal Removal's Fine Cut Right-Hand Spiral is used in applications where stock removal is light and workpiece finish is critical. A greater number of flutes reduces chip load and provides excellent control in deburring small intricate areas. Metal Removal now supplies many popular 1/8" and smaller diameter burs with fine cut configuration. Available as specials.



Shank Styles

A Shank



1/4", 5/16" and 3/8" hardened steel shank

B Shank



3/16", 1/4" and 3/8" flexible steel shank

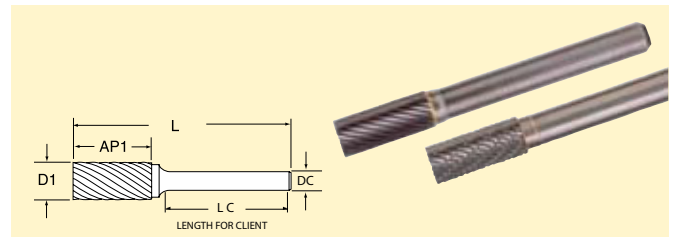
Note: We can handle special specifications for our customers

Series SA Cylindrical

Features

- Cylindrical shape
- No end cut
- SA inch sizes; SA-M metric sizes
- Shank types A, B, C; see page 152 for shank style definitions

Old List Numbers 010-20, 011-20, 041-20, 020-20, 015-20



LC AND DC WILL BE ADJUSTED TO THE CUSTOMER NECESSITIES.

Series SA Offering

USCTI Number	D1 inch	DC inch	AP1 inch	L inch	Shank Style	Standard Cut EDP No.	Master Cut EDP No.
SA-1	1/4	1/4	5/8	2	C	RKS40211	RKS41211
SA-2	5/16	1/4	3/4	2-1/2	C	RKS40213	RKS41213
SA-3	3/8	1/4	3/4	2-1/2	C	RKS40214	RKS41214
SA-4	7/16	1/4	1	2-3/4	C	RKS40216	RKS41216
SA-5	1/2	1/4	1	2-3/4	C	RKS40217	RKS41217
SA-6	5/8	1/4	1	2-3/4	C	RKS40219	RKS41219
SA-7	3/4	1/4	1	2-3/4	C	RKS40220	RKS41220
SA-9	1	1/4	1	2-3/4	C	RKS40221	RKS41221

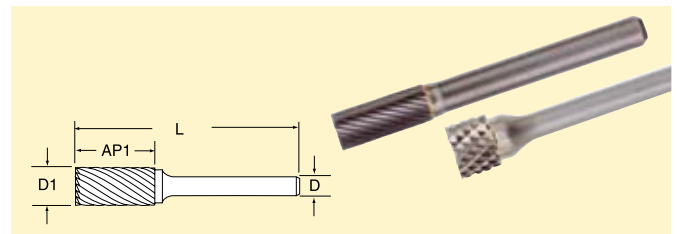
NOTE: DC MAY NOT EXCEED THE DIAMETER WHERE JOINS THE CARBIDE HEAD

Series SB Cylindrical with End Cut

Features

- Cylindrical shape
- With end cut
- SB inch sizes; SB-M metric sizes
- Shank types A, B, C; see page 152 for shank style definitions

Old List Numbers 010-21, 041-21, 015-21, 101-00



Series SB Offering

USCTI Number	D1 inch	D inch	AP1 inch	L inch	Shank Style	Standard Cut EDP No.	Master Cut EDP No.
SB-1	1/4	1/4	5/8	2	C	RKS40254	RKS41254
SB-2	5/16	1/4	3/4	2-1/2	C	RKS40255	RKS41255
SB-3	3/8	1/4	3/4	2-1/2	C	RKS40256	RKS41256
SB-4	7/16	1/4	1	2-3/4	C	RKS40258	RKS41257
SB-5	1/2	1/4	1	2-3/4	C	RKS40258	RKS41258
SB-6	5/8	1/4	1	2-3/4	C		RKS41259
SB-7	3/4	1/4	1	2-3/4	C		RKS41260

NOTE: DC MAY NOT EXCEED THE DIAMETER WHERE JOINS THE CARBIDE HEAD

Burs

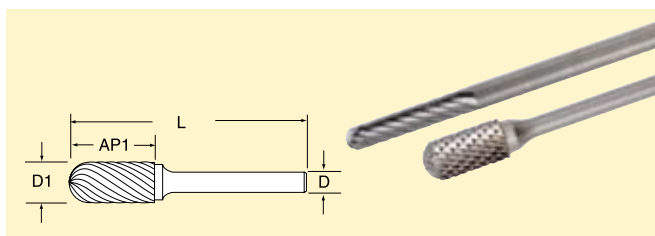
Series SC, SD

Series SC Cylindrical Ball Nose

Features

- Cylindrical shape
- Ball nose with end cut
- SC inch sizes; SC-M metric sizes
- Shank types A, B, C; see page 152 for shank style definitions

Old List Numbers 010-21, 041-21, 015-21, 101-00



Series SC Offering

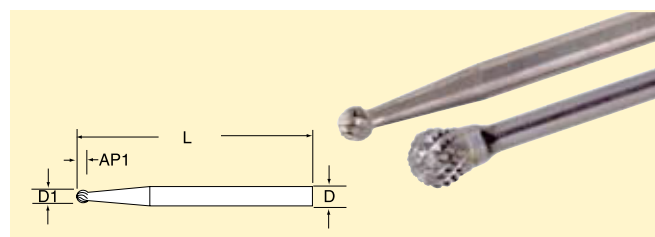
USCTI Number	D1 inch	D inch	AP1 inch	L inch	Shank Style	Standard Cut EDP No.	Master Cut EDP No.
SC-1	1/4	1/4	5/8	2	A	RKS40293	RKS41293
SC-2	5/16	1/4	3/4	2-1/2	A	RKS40295	RKS41295
SC-3	3/8	1/4	3/4	2-1/2	A	RKS40296	RKS41296
SC-4	7/16	1/4	1	2-3/4	A	RKS40298	RKS41298
SC-5	1/2	1/4	1	2-3/4	A	RKS40299	RKS41299
SC-6	5/8	1/4	1	2-3/4	A	RKS40301	RKS41301
SC-7	3/4	1/4	1	2-3/4	C	RKS40302	RKS41302

Series SD Ball

Features

- Ball shape
- SD inch sizes; SD-M metric sizes
- Shank types A, B, C; see page 152 for shank style definitions

Old List Numbers 010-21, 041-21, 015-21, 101-00



Series SD Offering

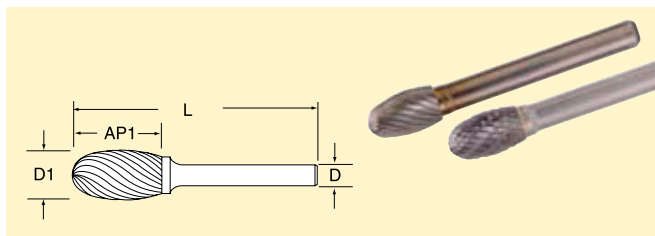
USCTI Number	D1 inch	D inch	AP1 inch	L inch	Shank Style	Standard Cut EDP No.	Master Cut EDP No.
SD-1	1/4	1/4	1/4	2	C	RKS40331	RKS41331
SD-2	5/16	1/4	5/16	2-1/32	C	RKS40333	RKS41333
SD-3	3/8	1/4	3/8	2-5/64	C	RKS40334	RKS41334
SD-4	7/16	1/4	7/16	2-9/64	C	RKS40336	RKS41336
SD-5	1/2	1/4	1/2	2-13/64	C	RKS40337	RKS41337
SD-6	5/8	1/4	5/8	2-5/16	C	RKS40339	RKS41339
SD-7	3/4	1/4	3/4	2-7/16	C	RKS40340	RKS41340
SD-9	1	1/4	1	2-11/16	C	RKS40341	RKS41341

Series SE Egg

Features

- Egg shape
- SE inch sizes; SE-M metric sizes
- Shank types A, B, C; see page 152 for shank style definitions

Old List Numbers 010-21, 041-21, 015-21, 101-00



Series SE Offering

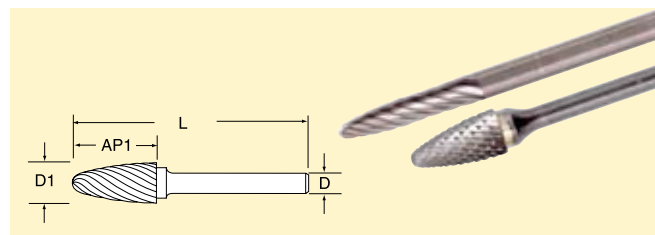
USCTI Number	D1 inch	D inch	AP1 inch	L inch	Shank Style	Standard Cut EDP No.	Master Cut EDP No.
SE-41	1/8	1/8	7/32	1-1/2	A	RKS40360	RKS41360
SE-53	3/16	1/8	9/32	1-1/2	A	RKS40361	RKS41361
SE-51	1/4	1/8	3/8	1-5/8	B	RKS40362	RKS41362
SE-1	1/4	1/4	3/8	2	C	RKS40363	RKS41363
SE-3	3/8	1/4	5/8	2-3/8	C	RKS40364	RKS41364
SE-5	1/2	1/4	7/8	2-5/8	C	RKS40365	RKS41365
SE-6	5/8	1/4	1	2-3/4	C	RKS40366	RKS41366
SE-7	3/4	1/4	1	2-3/4	C	RKS40367	RKS41367

Series SF Round Nose Tree

Features

- Round Nose Tree shape
- SF inch sizes; SF-M metric sizes
- Shank types A, B, C; see page 152 for shank style definitions

Old List Numbers 010-21, 041-21, 015-21, 101-00



Series SF Offering

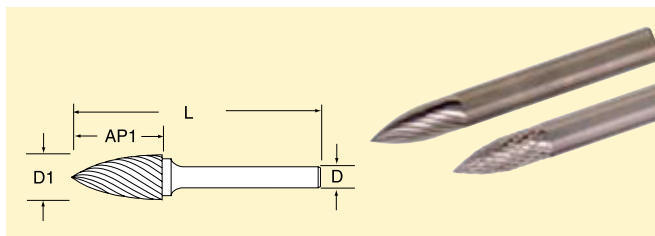
USCTI Number	D1 inch	D inch	AP1 inch	L inch	Shank Style	Standard Cut EDP No.	Master Cut EDP No.
SF-1	1/4	1/4	5/8	2	C	RKS40383	RKS41383
SF-3	3/8	1/4	3/4	2-1/2	C	RKS40385	RKS41385
SF-4	7/16	1/4	1	2-3/4	C	RKS40387	RKS41387
SF-13	1/2	1/4	3/4	2-1/2	C	RKS40388	RKS41388
SF-5	1/2	1/4	1	2-3/4	C	RKS40389	RKS41389
SF-6	5/8	1/4	1	2-3/4	C	RKS40391	RKS41391
SF-7	3/4	1/4	1	2-3/4	C	RKS40392	RKS41392
SF-14	3/4	1/4	1-1/4	3	C	RKS40394	RKS41394
SF-15	3/4	1/4	1-1/2	3-1/4	C	RKS40393	RKS41393

Series SG Pointed Tree

Features

- Pointed Tree shape
- SG inch sizes; SG-M metric sizes
- Shank types A, B, C; see page 152 for shank style definitions

Old List Numbers 010-21, 041-21, 015-21, 101-00



Series SG Offering

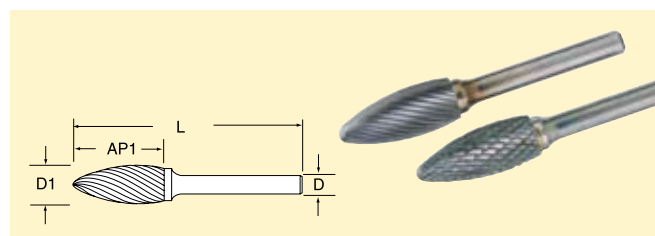
USCTI Number	D1 inch	D inch	AP1 inch	L inch	Shank Style	Standard Cut EDP No.	Master Cut EDP No.
SG-1	1/4	1/4	5/8	2	C	RKS40420	RKS41420
SG-2	5/16	1/4	3/4	2-1/2	C	RKS40421	RKS41421
SG-3	3/8	1/4	3/4	2-1/2	C	RKS40422	RKS41422
SG-13	1/2	1/4	3/4	2-1/2	C	RKS40423	RKS41423
SG-5	1/2	1/4	1	2-3/4	C	RKS40424	RKS41424
SG-6	5/8	1/4	1	2-3/4	C	RKS40425	RKS41425
SG-7	3/4	1/4	1	2-3/4	C	RKS40426	RKS41426

Series SH Flame

Features

- Flame shape
- SH inch sizes; SH-M metric sizes
- Shank types A, C; see page 152 for shank style definitions

Old List Numbers 010-20, 020-20, 051-20



Series SH Offering

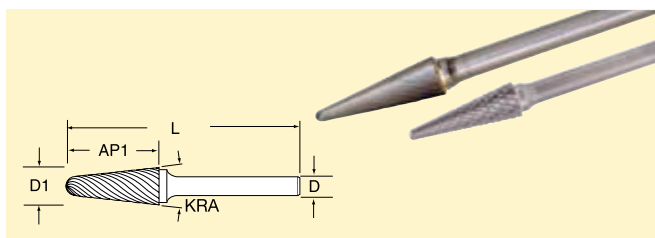
USCTI Number	D1 inch	D inch	AP1 inch	L inch	Shank Style	Standard Cut EDP No.	Master Cut EDP No.
SH-2	5/16	1/4	3/4	2-1/2	C	RKS40448	RKS41448
SH-5	1/2	1/4	1-1/4	3	C	RKS40449	RKS41449
SH-6	5/8	1/4	1-7/16	3-3/16	C	RKS40450	RKS41450
SH-7	3/4	1/4	1-5/8	3-3/8	C	RKS40451	RKS41451

Series SL Included Angle

Features

- Included angle shape
- SL inch sizes; SL-M metric sizes
- Shank types A, C; see page 152 for shank style definitions

Old List Numbers 010-21, 041-21, 015-21, 101-00



Series SL Offering

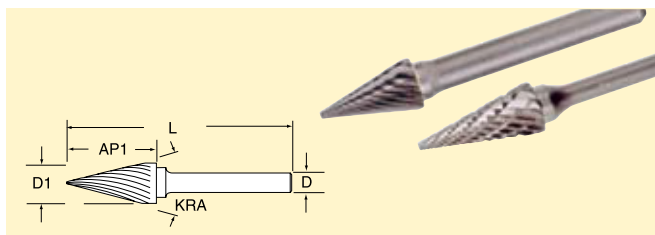
USCTI Number	D1 inch	D inch	AP1 inch	L inch	Shank Style	KRA	Standard Cut EDP No.	Master Cut EDP No.
SL-1	1/4	1/4	5/8	2	C	14°	RKS40464	RKS41464
SL-2	5/16	1/4	7/8	2-3/4	C	14°	RKS40466	RKS41466
SL-3	3/8	1/4	1-1/16	2 15/16	C	14°	RKS40467	RKS41467
SL-4	1/2	1/4	1-1/8	3	C	14°	RKS40469	RKS41469
SL-6	5/8	1/4	1-5/16	3-3/16	C	14°	RKS40471	RKS41471
SL-7	3/4	1/4	1-1/2	3-3/8	C	14°	RKS40472	RKS41472

Series SM Pointed Cone

Features

- Pointed cone shape
- SM inch sizes; SM-M metric sizes
- Shank types A, B, C; see page 152 for shank style definitions

Old List Numbers 010-20, 020-20, 045-20, 010-20, 015-20



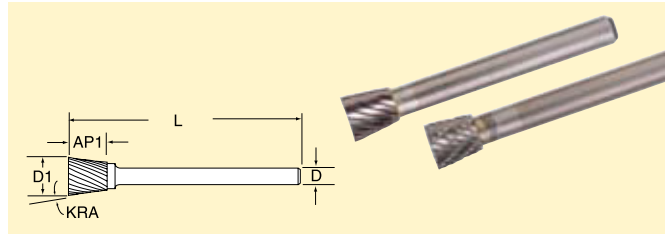
Series SM Offering

USCTI Number	D1 inch	D inch	AP1 inch	L inch	Shank Style	KRA	Standard Cut EDP No.	Master Cut EDP No.
SM-1	1/4	1/4	1/2	2	C	22°	RKS40490	RKS41490
SM-2	1/4	1/4	3/4	2	C	14°	RKS40491	RKS41491
SM-3	1/4	1/4	1	2	C	10°	RKS40492	RKS41492
SM-4	3/8	1/4	5/8	2-1/2	C	28°	RKS40493	RKS41493
SM-5	1/2	1/4	7/8	2-3/4	C	28°	RKS40494	RKS41494
SM-6	5/8	1/4	1	2-7/8	C	31°	RKS40495	RKS41495

Series SN Inverted Taper Features

- Inverted taper shape
- SN inch sizes; SN-M metric sizes
- Shank types A, C; see page 152 for shank style definitions

Old List Numbers 010-21, 041-21, 015-21, 101-00



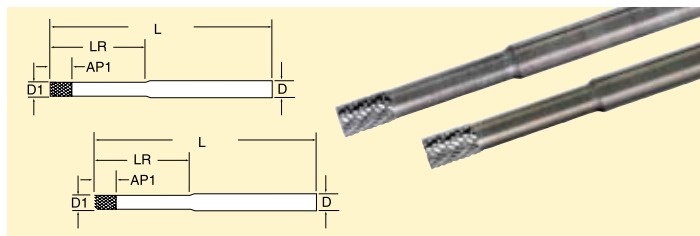
Series SN Offering

USCTI Number	D1 inch	D inch	AP1 inch	L inch	Shank Style	KRA	Standard Cut EDP No.	Master Cut EDP No.
SN-1	1/4	1/4	5/16	2	C	10°	RKS40513	RKS41513
SN-3	1/2	1/4	1/2	2-1/4	C	16°		RKS41514
SN-4	1/2	1/4	1/2	2-1/4	C	28°	RKS40515	

Series IGT Internal Grinding Tool Features

- Fine master-cut style
- Cylindrical shape
- Series IGT has no end cut;
Series IGT-EC has end cut
- Solid carbide construction

Old List Number 115-10, 115-11



Series IGT Offering

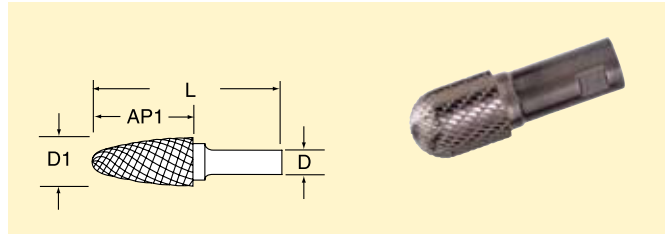
D1 inch	D inch	AP1 inch	Reach Length	L inch	Master Cut EDP No.
1/16	1/8	1/8	1/2	1-1/2	RKS42006
5/64	1/8	5/32	1/2	1-1/2	RKS42007
3/32	1/8	5/32	1/2	1-1/2	RKS42008
7/64	1/8	3/16	1/2	1-1/2	RKS42009
1/8	1/8	3/16	1/2	1-1/2	RKS42010
9/64	3/16	7/32	5/8	2	RKS42019
5/32	3/16	7/32	5/8	2	RKS42020
11/64	3/16	1/4	5/8	2	RKS42021
3/16	3/16	1/4	5/8	2	RKS42022
13/64	1/4	9/32	3/4	2	RKS42011
7/32	1/4	9/32	3/4	2	RKS42012
15/64	1/4	5/16	3/4	2	RKS42013
1/4	1/4	5/16	3/4	2	RKS42014
9/32	1/4	11/32		2-1/2	RKS42015
5/16	1/4	11/32		2-1/2	RKS42016
11/32	1/4	3/8		2-1/2	RKS42017
3/8	1/4	3/8		2-1/2	RKS42018

Series ITS Internal Threading Shank

Features

- Internal threaded shank
- Solid carbide construction

Old List Number 115-10



Applications

- For rigorous foundry casting cleaning applications:
 - smoothing out casting risers and fins, repairing welds, removing core sand

Design enables the burr to operate closer to the grinder bearings, reducing the overhang and providing:

- minimal burr runout
 - reduced whipping action
 - smoother operation
 - less chatter
 - increased stock removal rates
 - secure operator control
 - improved finish
 - longer bearing life
 - burr usage in tight corners
- Enables usage of shank extensions.
 - No need for costly collets.
 - No bending or breaking.

Series ITS Offering

	D1 inch	D inch	AP1 inch	L inch	Internal Shank Threads Per Inch	Master Cut EDP No.
Ball Nose						
	3/4	9/16	1	2-1/4	24	RKS42000
	1-1/8	7/8	2	3-3/8	11	RKS42001
Round Nose Tree						
	3/4	9/16	1-1/2	2-3/4	24	RKS42002
	1-1/8	7/8	2	3-3/8	11	RKS42003

CONTACT INFO

RICARDO VARGAS CABRAL
DIRECTOR GENERAL
ricardo.vargas@rksindustrial.com

RICARDO VARGAS LUNA
GERENTE DE OPERACIONES
ricardov.luna@rksindustrial.com

LUIS AGUILLÓN
GERENTE DE SERVICIO
luis.aguillon@rksindustrial.com

ZABDIEL JARAMILLO
INGENIERO DE CALIDAD
zabdiel.jaramillo@rksindustrial.com

RKS INDUSTRIAL®
(844) 432 5164 • 135 2613/14
service@rksindustrial.com
www.rksindustrial.com

