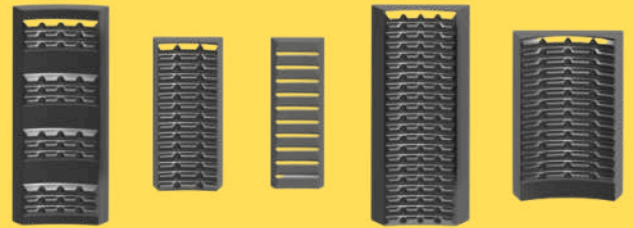


Handling Tools
Dies & Inserts
Safety Products
Float Valves



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PRESSURE SYSTEM BUILDERS
PSBV
V I E T N A M



Pressure System Builders Vietnam
16 Yen The St., Ward 2, Tank Binh Dist.
Ho Chi Minh
Vietnam

August 5, 2024

Sales and Service representation letter

Keystone Energy Tools, LLC
3711 Melancon Road
Broussard, LA 70518

Hereinafter called Keystone, declare that:

Pressure System Builders Vietnam
16 Yen The St., Ward 2, Tank Binh Dist.
Ho Chi Minh
Vietnam

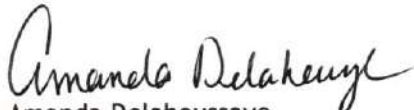
Hereinafter called Pressure System Builders Vietnam, is the authorized distributor for KET products across Southeast Asia.

Territory: Vietnam, Thailand, Malaysia, Brunei, Indonesia, The Philippines, Myanmar, Timor, Laos, Cambodia, India, and Singapore

The letter of representation comes into effect on the 5th of August 2024 and is valid for the duration of the distribution agreement in between Keystone Energy Tools and Pressure System Builders Vietnam.

Keystone Energy Tools

Stamp Keystone Energy Tools, LLC


Amanda Delahoussaye
President

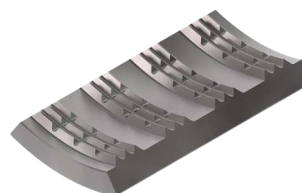
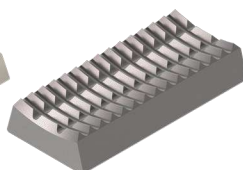
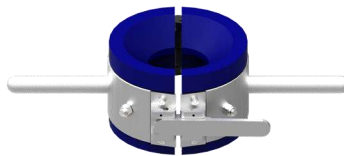
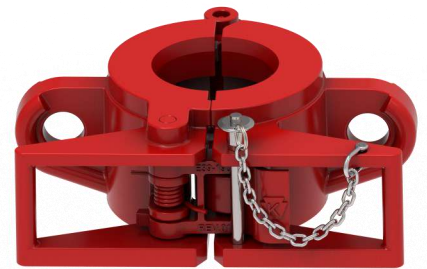
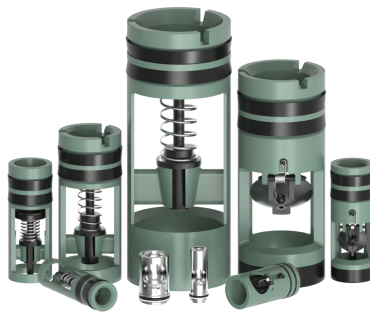


bridge the gap.

Keystone

ENERGY TOOLS

PRODUCT CATALOG



Certificate of Authority to use the Official API Monogram

License Number: 8C-0195

ORIGINAL

The American Petroleum Institute hereby grants to

KEYSTONE ENERGY TOOLS

3711 Melancon Road

Broussard, LA

United States

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-8C** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **8C-0195**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Casing, Tubing, Drill Pipe and Drill Collar Elevators at PSL 1, PSL 2

QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: **JULY 5, 2022**

Expiration Date: **JULY 21, 2024**

To verify the authenticity of this license, go to www.api.org/compositelist.

Senior Vice President of Global Industry Services

Anchal Liddar



®

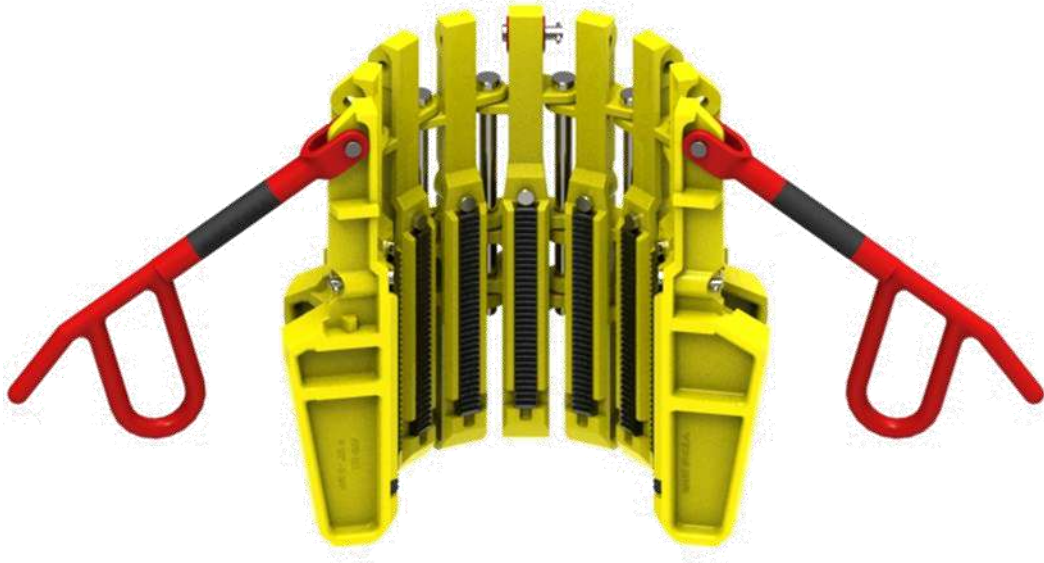
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TYPE “A” DRILL COLLAR SLIP

The KET Type “A” Drill Collar Slip has a multi-segment design that allows it to hinge so that it fits all drill collars within the slip’s size range. The slip segments are made of alloy steel which are heat-treated for strength and wear resistance. The slip is load rated and has an API taper of 4”/ft on the diameter. All slip assemblies are supplied with safety flex handles.

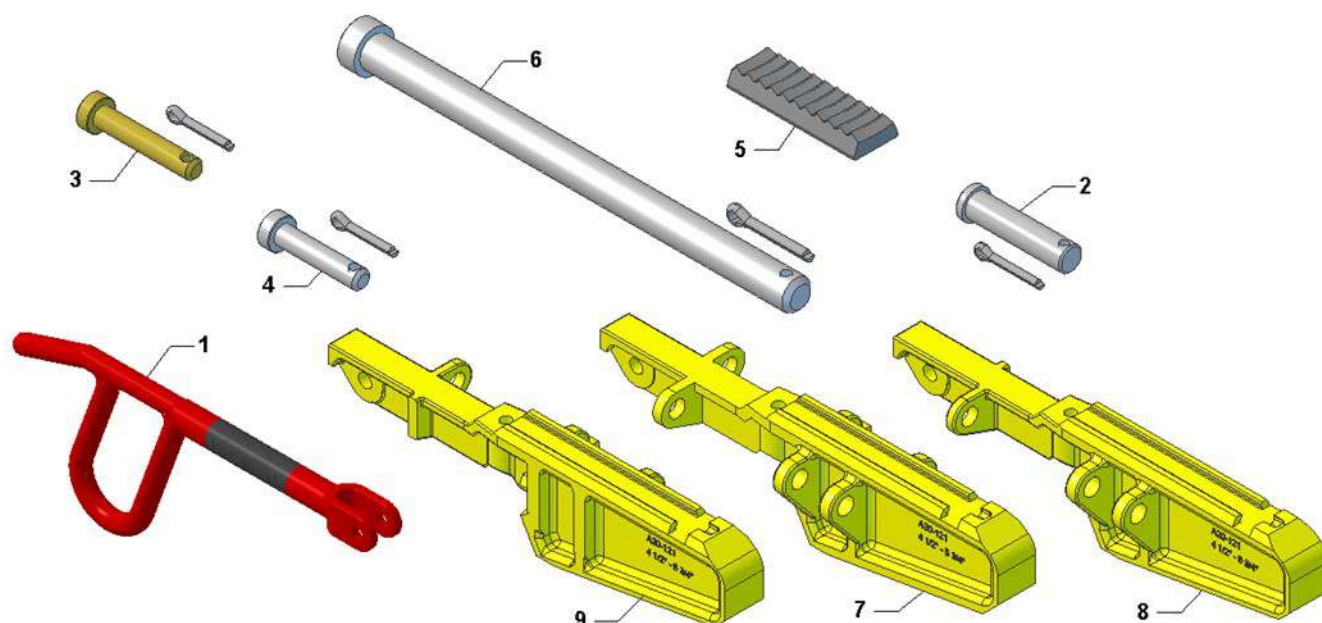


KET TYPE “A” DRILL COLLAR SLIPS COMPLETE

PART NO.	DRILL COLLAR SIZE/SLIP RECESS	# OF SEGMENTS	TAPER/FT (TPF)	RATING(TONS)	WT.
A20-111-F	3" - 4 1/4"	7	4.00"	95	136
A20-111-1-F	3 3/4" - 4 3/4"	8	4.00"	110	128
A20-112-F	4 1/2" - 5 3/4"	9	4.00"	130	112
A20-113-F	5 1/2" - 7"	10	4.00"	150	117
A20-114-F	6 3/4" - 8 1/4"	11	4.00"	150	118
A20-115-F	8 1/4" - 10"	12	4.00"	150	120

ALL PARTS ARE INTERCHANGEABLE WITH CORRESPONDING DESIGN TYPE “A” DRILL COLLAR SLIPS

KET TYPE "A" DRILL COLLAR SLIP



REPLACEMENT PARTS FOR KET TYPE "A" DRILL COLLAR SLIPS

PART NO.	ITEM#	DESCRIPTION	REF.#	#REQ.	WT.
102300	1	FLEX HANDLE		3	4.00
A08-103	2	HANDLE PIN	707-000-0300	3	.12
A20-102	3	INSERT RET. PIN (3" - 8 1/4")	707-000-0600		.08
A20-104	4	INSERT RET. PIN (8 1/4" - 10")	707-000-0700	12	.07
A20-103	5	INSERT	797-000-0000		.25
A20-101	6	HINGE PIN	707-000-0100		.86
A20-109	7	INT. SEG. 3" - 4 1/4"	707-300-0100	5	15.00
A20-108	8	R.H. SEG. 3" - 4 1/4"	707-300-0400	1	15.00
A20-110	9	L.H. SEG. 3" - 4 1/4"	707-300-0300	1	15.00
A20-138	7	INT. SEG. 3 1/4" - 4 3/4"	707-320-0100	6	14.00
A20-137	8	R.H. SEG. 3 1/4" - 4 3/4"	707-320-0400	1	14.00
A20-139	9	L.H. SEG. 3 1/4" - 4 3/4"	707-320-0300	1	14.00
A20-121	7	INT. SEG. 4 1/2" - 5 3/4"	707-420-0100	7	13.00
A20-120	8	R.H. SEG. 4 1/2" - 5 3/4"	707-420-0400	1	13.00
A20-122	9	L.H. SEG. 4 1/2" - 5 3/4"	707-420-0300	1	13.00
A20-125	7	INT. SEG. 5 1/2" - 7"	707-540-0100	8	11.00
A20-124	8	R.H. SEG. 5 1/2" - 7"	707-540-0400	1	11.00
A20-126	9	L.H. SEG. 5 1/2" - 7"	707-540-0300	1	11.00
A20-130	7	INT. SEG. 6 3/4" - 8 1/4"	707-660-0100	9	8.50
A20-129	8	R.H. SEG. 6 3/4" - 8 1/4"	707-660-0400	1	8.50
A20-131	9	L.H. SEG. 6 3/4" - 8 1/4"	770-660-0300	1	8.50
A20-134	7	INT. SEG. 8 1/4" - 10"	707-820-0100	10	6.00
A20-133	8	R.H. SEG. 8 1/4" - 10"	707-820-0400	1	6.00
A20-135	9	L.H. SEG. 8 1/4" - 10"	707-820-0300	1	6.00

KET TYPE “C-1” DRILL COLLAR SLIPS

The KET “C-1” Drill Collar Slip has a multi-segment design that allows it to hinge so that it fits all drill collars within the slip’s size range. The slip segments are made of alloy steel which are heat-treated for strength and wear resistance. The inserts are a continuous one piece design with approximately 7 1/2” of contact length. The slip is load rated and has an API taper of 4”/ft on the diameter. For added safety, the KET “C-1” Drill Collar Slip is also provided with safety flex handles as a standard option.



KET “C-1” DRILL COLLAR SLIPS COMPLETE

PART NO.	DRILL COLLAR SIZE/ SLIP RECESS	SEG. PART#	REF.#	TOTAL SEG.	TAPER/FT (TPF)	RATING (TONS)	WT.
A08-111-F	3” - 4 1/2”	A08-108	7636-5104	8	4.00”	120	112
A08-112-F	4 1/4” - 5 3/4”	A08-121	7636-5105	10	4.00”	150	122
A08-113-F	5 1/2” - 7”	A08-125	7636-5106	12	4.00”	200	134
A08-114-F	6 3/4” - 8 1/4”	A08-130	7636-5107	12	4.00”	200	118
A08-115-F	8 1/2” - 10”	A08-134	7636-5108	12	4.00”	200	198
A08-116-F*	10” - 11 1/4”	A08-130	7636-5109	17	4.00”	200	150
A08-117-F**	11 1/4” - 12 3/4”	A08-125	7636-5110	19	4.00”	200	210

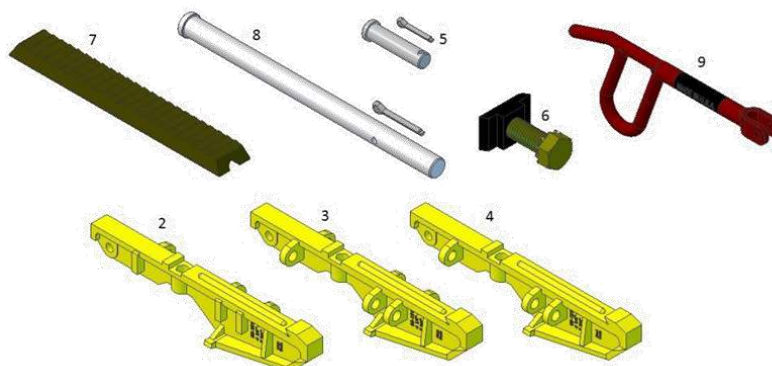
ALL “C-1” TYPE SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST

ALL PARTS ARE INTERCHANGEABLE WITH CORRESPONDING DESIGN “C-1” DRILL COLLAR SLIPS

* FITS NO. 2 INSERT BOWL

** FITS NO. 1 INSERT BOWL

KET TYPE "C-1" DRILL COLLAR SLIP

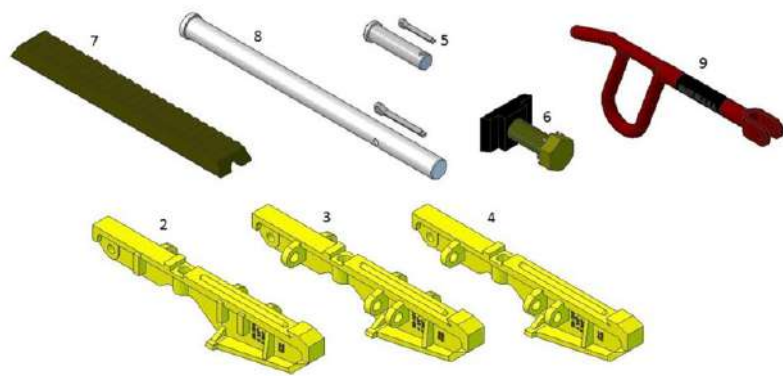


REPLACEMENT PARTS FOR KET "C-1" DRILL COLLAR SLIPS

PART #	ITEM#	DESCRIPTION	*SPARES	SIZE	#REQ.	REF.#	WT.
A08-102	N/P	HANDLE	3	3" - 10"	3	7638-A-78	2.50
A08-102	N/P	HANDLE	4	10" - 12 3/4"	4	7638-A-78	2.50
A08-107	2	BODY SEGMENT (RIGHT HAND)		3" - 4 1/2"	1	7638-5099-11	10.75
A08-120	2	BODY SEGMENT (RIGHT HAND)		4 1/4" - 5 3/4"	1	7638-5100-11	9.25
A08-124	2	BODY SEGMENT (RIGHT HAND)		5 1/2" - 7"	1	7638-5101-11	8.25
A08-129	2	BODY SEGMENT (RIGHT HAND)		6 3/4" - 8 1/4"	1	7638-5102-11	7.00
A08-133	2	BODY SEGMENT (RIGHT HAND)		8 1/2" - 10"	1	7638-5103-11	5.75
A08-129	2	BODY SEGMENT (RIGHT HAND)		10" - 11 1/4"	1	7638-5102-11	7.00
A08-124	2	BODY SEGMENT (RIGHT HAND)		11 1/4" - 12 3/4"	1	7638-5101-11	8.25
A08-108	3	BODY SEGMENT (INTERMEDIATE)		3" - 4 1/2"	6	7638-5099-10	10.75
A08-121	3	BODY SEGMENT (INTERMEDIATE)		4 1/4" - 5 3/4"	8	7638-5100-10	9.25
A08-125	3	BODY SEGMENT (INTERMEDIATE)		5 1/2" - 7"	10	7638-5101-10	8.25
A08-130	3	BODY SEGMENT (INTERMEDIATE)		6 3/4" - 8 1/4"	10	7638-5102-10	7.00
A08-134	3	BODY SEGMENT (INTERMEDIATE)		8 1/2" - 10"	10	7638-5103-10	5.75
A08-130	3	BODY SEGMENT (INTERMEDIATE)		10" - 11 1/4"	15	7638-5102-10	7.00
A08-125	3	BODY SEGMENT (INTERMEDIATE)		11 1/4" - 12 3/4"	17	7638-5101-10	8.25
A08-109	4	BODY SEGMENT (LEFT HAND)		3" - 4 1/2"	1	7638-5099-12	10.75
A08-122	4	BODY SEGMENT (LEFT HAND)		4 1/4" - 5 3/4"	1	7638-5100-12	9.25
A08-126	4	BODY SEGMENT (LEFT HAND)		5 1/2" - 7"	1	7638-5101-12	8.25
A08-131	4	BODY SEGMENT (LEFT HAND)		6 3/4" - 8 1/4"	1	7638-5102-12	7.00
A08-135	4	BODY SEGMENT (LEFT HAND)		8 1/2" - 10"	1	7638-5103-12	5.75
A08-131	4	BODY SEGMENT (LEFT HAND)		10" - 11 1/4"	1	7638-5102-12	7.00
A08-126	4	BODY SEGMENT (LEFT HAND)		11 1/4" - 12 3/4"	1	7638-5101-12	8.25
A08-103	5	HANDLE PIN w/COTTER	1	3" - 10"	3	7638-E-2	.15
A08-103	5	HANDLE PIN w/COTTER	2	10" - 12 3/4"	4	7638-E-2	.15
A08-104	6	LINER KEEPER w/BOLT & WASHER	4	3" - 4 1/2"	8	7638-5113	1.00
A08-104	6	LINER KEEPER w/BOLT & WASHER	5	4 1/4" - 5 3/4"	10	7638-5113	1.00
A08-104	6	LINER KEEPER w/BOLT & WASHER	6	5 1/2" - 10"	12	7638-5113	1.00
A08-104	6	LINER KEEPER w/BOLT & WASHER	8	10" - 11 1/4"	17	7638-5113	1.00
A08-104	6	LINER KEEPER w/BOLT & WASHER	9	11 1/4" - 12 3/4"	19	7638-5113	1.00

REPLACEMENT PARTS CONTINUED ON NEXT PAGE

KET TYPE “C-1” DRILL COLLAR SLIP

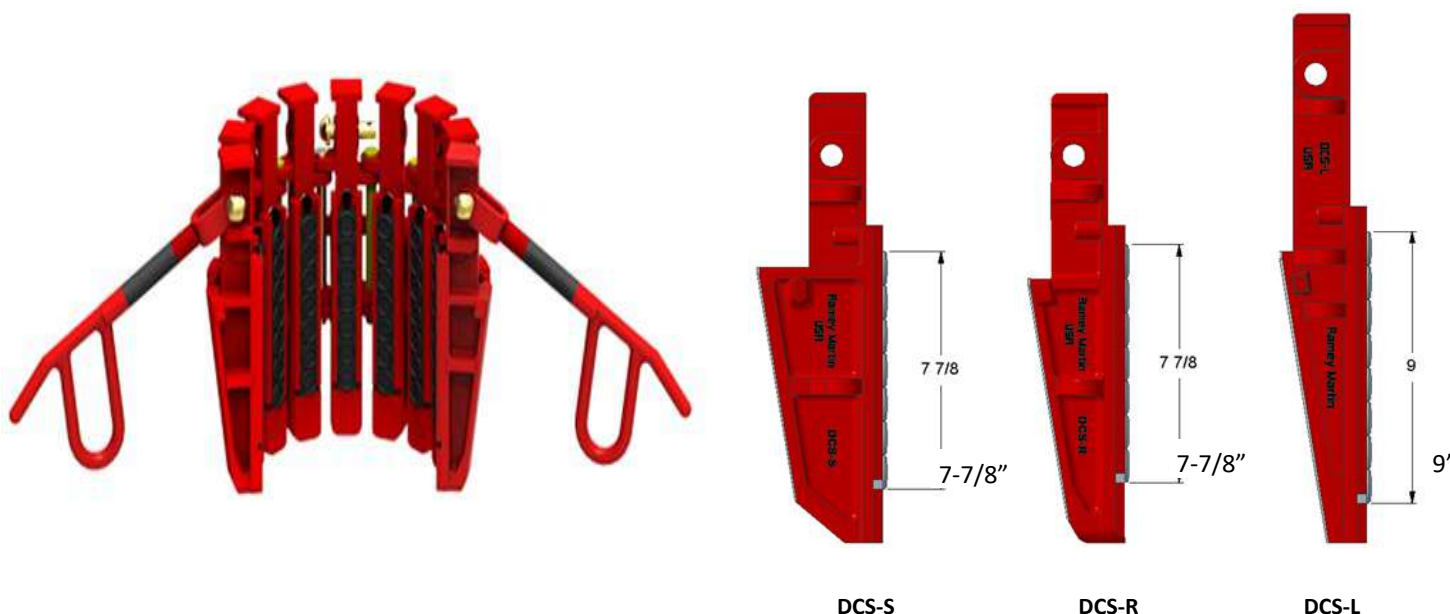


REPLACEMENT PARTS FOR KET “C-1” DRILL COLLAR SLIPS

PART #	ITEM#	DESCRIPTION	*SPARES	SIZE	#REQ.	REF.#	WT.
A08-105	7	RENEWABLE LINER		3" - 12 3/4"		7638-116	1.00
A08-101	8	HINGE PIN w/COTTER	3	3" - 4 1/2"	7	7638-B-59	1.15
A08-101	8	HINGE PIN w/COTTER	3	4 1/4" - 5 3/4"	9	7638-B-59	1.15
A08-101	8	HINGE PIN w/COTTER	3	5 1/2" - 8 1/4"	11	7638-B-59	1.15
A08-106	8	HINGE PIN w/COTTER	3	8 1/2" - 10"	11	7638-B-59	.85
A08-101	8	HINGE PIN w/COTTER	4	10" - 11 1/4"	16	7638-B-59	1.15
A08-101	8	HINGE PIN w/COTTER	4	11 1/4" - 12 3/4"	18	7638-B-59	1.15
102300	9	SAFETY FLEX HANDLE		ALL	3	N/A	4.00

KET TYPE “DCS” DRILL COLLAR SLIPS

The KET “DCS” Type Drill Collar Slip has a multi-segment design to give a full wrap-around to insure a proper slip setting. The slips are made of alloy steel and heat-treated for strength and long life. The slip is load rated and has an API taper of 4”/ft on the diameter. For added safety, the KET “DCS” Drill Collar Slip is also provided with safety flex handles as a standard option.



KET “DCS” DRILL COLLAR SLIPS COMPLETE

PART NO.	DRILL COLLAR SIZE/SLIP RECESS	TYPE SLIP	REF.#	TOTAL SEG-MENTS	TAPER/FT (TPF)	RATING (TONS)	WT.
A16-120-F	3" - 4"	DCS-S	(2572)	7	4.00"	120	112
A16-121-F	4" - 4 7/8"	DCS-S	(2573)	7	4.00"	120	103
A16-122-F	4 1/2" - 6"	DCS-R	(2552)	9	4.00"	150	120
A16-123-F	5 1/2" - 7"	DCS-R	(2550)	9	4.00"	150	112
A16-125-F	5 1/2" - 7"	DCS-L*	(2501)	11	4.00"	15 T/SEG = 165	172
A16-126-F	6 3/4" - 8 1/4"	DCS-L*	(2503)	11	4.00"	15 T/SEG = 165	154
A16-127-F	8" - 9 1/2"	DCS-L*	(2507)	12	4.00"	15 T/SEG = 180	173
A16-128-F	8 1/2" - 10"	DCS-L*	(2530)	13	4.00"	15T/SEG = 195	185
A16-129-F	9 1/4" - 11 1/4"	DCS-L*	(2508)	14	4.00"	15T/SEG = 210	198
A16-130-F	11" - 12 3/4"	DCS-L*	(2534)	17	4.00"	15T/SEG = 255	213
A16-131-F	12" - 14"	DCS-L*	(V2536)	17	4.00"	15T/SEG = 255	207

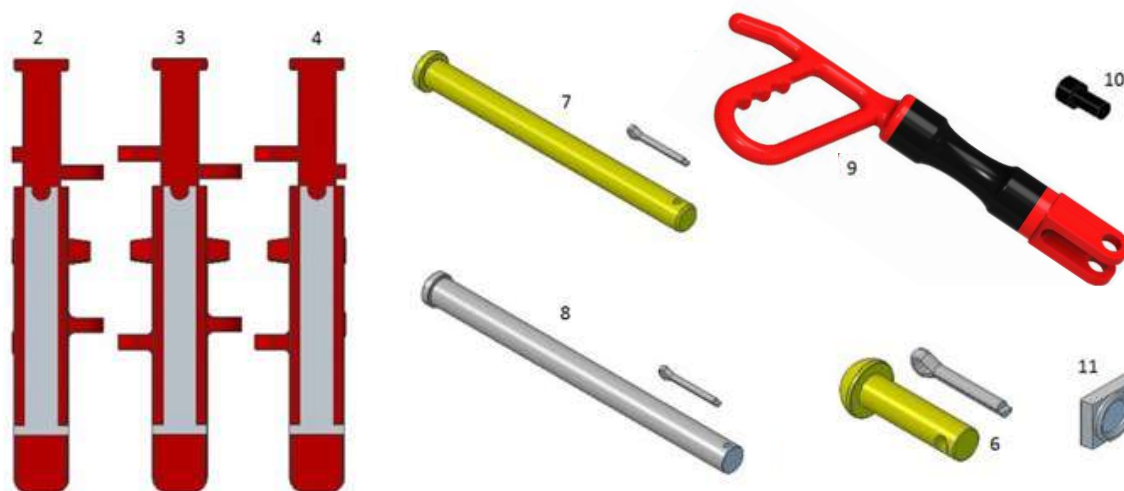
* DUAL SLIP RATING

NOTE: SLIP SIZES 3" - 9 1/2" FOR USE IN API OR #3 BOWL

SLIP SIZES 8 1/2" - 11 1/4" FOR USE IN #2 BOWL

SLIP SIZES 11" - 14" FOR USE IN #1 BOWL

KET TYPE “DCS” DRILL COLLAR SLIPS



REPLACEMENT PARTS FOR KET “DCS” DRILL COLLAR SLIPS

PART NO.	ITEM #	DESCRIPTION	*SPARES	SIZE	#REQ	REF.#	WT.
A16-102	2	LEFT HAND SEGMENT f/DCS-S		3" - 4 7/8"	1	2569	11.00
A16-105	2	LEFT HAND SEGMENT f/DCS-R		4 1/2" - 7"	1	2555	10.00
A16-108	2	LEFT HAND SEGMENT f/DCS-L		5 1/2" - 14"	1	2511	12.00
A16-103	3	INTERMEDIATE SEGMENT f/DCS-S		3" - 4 7/8"	5	2570	11.00
A16-106	3	INTERMEDIATE SEGMENT f/DCS-R		4 1/2" - 7"	7	2556	10.00
A16-109	3	INTERMEDIATE SEGMENT f/DCS-L		5 1/2" - 14"	**	2512	12.00
A16-104	4	RIGHT HAND SEGMENT f/DCS-S		3" - 4 7/8"	1	2568	11.00
A16-107	4	RIGHT HAND SEGMENT f/DCS-R		4 1/2" - 7"	1	2554	10.00
A16-110	4	RIGHT HAND SEGMENT f/DCS-L		5 1/2" - 14"	1	2510	12.00
A14-105	6	HANDLE PIN	3	3" - 10"	3	3769	.50
A14-105	6	HANDLE PIN	3	9 1/4" - 14"	4	3769	.50
A14-106	7	HINGE PIN f/DCS-S	4	3" - 4 7/8"	6	2525	.70
A14-106	7	HINGE PIN f/DCS-R	4	4 1/2" - 7"	8	2525	.70
A16-112	8	HINGE PIN f/DCS-L	4	5 1/2" - 14"	**	2520	.70
102100	9	SAFETY FLEX HANDLE	3	3"-10"	3	N/A	4.00
102100	9	SAFETY FLEX HANDLE	4	9-1/4"-14"	4	N/A	5.00
A14-091	10	DIE RETAINER BOLT					

* RECOMMENDED SPARE PARTS FOR 1 YEAR OF OPERATION

** VARIES DEPENDING ON SLIP SIZE

KET TYPE “DCS” DRILL COLLAR SLIPS

BUTTON AND CROSS REF. INSERTS FOR KET “DCS” DRILL COLLAR SLIPS

PART NO. (BUTTON)	REF#	SLIP TYPE	SIZE	QTY	WT./SET	PART NO. (INSERT)	REF#	QTY	WT./SET
A14-628	(2628)	DCS-S	3" - 4"	49	13.00	A23-168	(2632)	21	7
A14-620	(2620)	DCS-S	4" - 4 7/8"	49	8.00	A23-161	(2167)	21	4
A14-628	(2628)	DCS-R	4 1/2" - 6"	63	16.00	A23-166	(2173)	27	9
A14-620	(2620)	DCS-R	5 1/2" - 7"	63	11.00	A23-175	(2634)	27	5
A14-513	(2513)	DCS-L	5 1/2" - 7"	88	19.00	A23-180	(2521)	33	7
A14-630	(2630)	DCS-L	6 3/4" - 8 1/4"	88	15.00	A23-170	(2633)	33	5
A14-630	(2630)	DCS-L	8" - 9 1/2"	96	16.00	A23-170	(2633)	36	5
A14-627	(2627)	DCS-L	8 1/2" - 10"	104	26.00	A23-172	(2637)	39	11
A14-630	(2630)	DCS-L	9 1/4" - 11 1/4"	112	19.00	A23-170	(2633)	42	5
A14-625	(2625)	DCS-L	11" - 12 3/4"	136	20.00	A23-185	(2639)	51	11
A14-630	(2630)	DCS-L	12" - 14"	136	22.00	A23-170	(2633)	51	5

KET TYPE “SD” ROTARY SLIPS

All KET “SDML” and “SDXL” Slips are made of alloy steel and heat-treated for strength and long life. These slips are then machined for use in API standard bowls. We have designed our slip to operate with no load ring and still maintain 100% insert support, eliminating the need for beveled inserts, this also allows for a complete inspection of the slip without fighting seized or breaking load ring bolts. Another time saving change is the use of roll pins for retaining the hinge pins and a larger knock out hole beneath the hinge pins. All KET “SD” Slips have an API taper of 4”/ft on the diameter.

Lastly, we have added SLD spring grooves, which allow our slip to easily be retrofitted for the Keystone Energy Tools SLD.



KET “SD” TYPE ROTARY SLIPS COMPLETE

PART NO.	SLIP BODY SIZE	TYPE	REF	TAPER/FT(TPF)	RATING (TONS)	WT.
A23-100-F	3 1/2" BODY ONLY	SDML	15522-1	4.00"	175	153.00
A24-200-F	4 1/2" BODY ONLY	SDXL	15562	4.00"	350	182.00
A24-100-F	5" BODY ONLY	SDXL	15566	4.00"	350	193.00
A24-300-F	5 1/2" BODY ONLY	SDXL	15570	4.00"	350	190.00
A23-135-F	3 1/2" x 3 1/2"	SDML	15522	4.00"	175	180.00
A23-127-F	3 1/2" x 2 7/8"	SDML	15523	4.00"	175	188.00
A23-123-F	3 1/2" x 2 3/8"	SDML	15524	4.00"	175	193.00
A24-245-F	4 1/2" x 4 1/2"	SDXL	15513	4.00"	350	205.00
A24-240-F	4 1/2" x 4"	SDXL	15514	4.00"	350	219.00
A24-235-F	4 1/2" x 3 1/2"	SDXL	15515	4.00"	350	229.00
A24-150-F	5" x 5"	SDXL	15516	4.00"	350	213.00
A24-145-F	5" x 4 1/2"	SDXL	15517	4.00"	350	227.00
A24-140-F	5" x 4"	SDXL	15518	4.00"	350	237.00
A24-355-F	5 1/2" x 5 1/2"	SDXL	15519	4.00"	350	210.00
A24-350-F	5 1/2" x 5"	SDXL	15520	4.00"	350	224.00
A24-345-F	5 1/2" x 4 1/2"	SDXL	15521	4.00"	350	234.00

KET “SD” TYPE ROTARY SLIPS



REPLACEMENT PARTS FOR “SD” TYPE ROTARY SLIPS

PART NO.	ITEM#	DESCRIPTION	SIZE	#REQ.	REF.#	WT.	*SPARES
A14-105	1	HANDLE PIN w/WASHER & COTTER	ALL	3	3769	.50	3
A23-104	2	INSERT RETAINER RING	3 1/2"	3	3738	1.00	3
A23-105	2	INSERT RETAINER RING	4 1/2"	3	3739	1.00	3
A23-106	2	INSERT RETAINER RING	5"	3	3741	1.00	3
A23-107	2	INSERT RETAINER RING	5 1/2"	3	3740	1.00	3
A23-108	2	INSERT RETAINER RING	7"	3	3742	1.00	3
A23-109	3	INSERT RETAINER SCREW & NUT	ALL	6	3737	.02	12
A23-110	4	INSERT	SEE CHART (NEXT PAGE 77)				
A23-111	5	HINGE PIN w/COTTER	ALL	2	2192	1.20	2
102100	6	SAFETY FLEX HANDLE	ALL	3	N/A	4.00	3

*RECOMMENDED SPARE PARTS FOR 1 YEAR SERVICE

KET “SD” TYPE ROTARY SLIPS

INSERTS FOR “SDML” AND “SDXL” SLIPS

PART NO.	SIZE	TYPE	REF.#	WT./SET (SDML/SDXL)
A23-155	3 1/2" x 3 1/2"	BASIC	2162	10.00
A23-156	3 1/2" x 2 7/8"	REDUCER	2161	15.00
A23-157	3 1/2" x 2 3/8"	REDUCER	2160	20.00
A23-158	4 1/2" x 4 1/2"	BASIC	2165	15.00 / 18.00
A23-159	4 1/2" x 4"	REDUCER	2164	23.00 / 27.00
A23-160	4 1/2" x 3 1/2"	REDUCER	2163	30.00 / 36.00
A23-161	5" x 5"	BASIC	2167	15.00 / 18.00
A23-162	5" x 4 1/2"	REDUCER	2166	23.00 / 27.00
A23-163	5" x 4"	REDUCER	2168	30.00 / 36.00
A23-164	5 1/2" x 5 1/2"	BASIC	2170	15.00 / 18.00
A23-165	5 1/2" x 5"	REDUCER	2169	23.00 / 27.00
A23-163	5 1/2" x 4 1/2"	REDUCER	2168	30.00 / 36.00
A23-166	7" x 7"	BASIC	2173	20.00 / 26.00
A23-167	7" x 6 5/8"	REDUCER	2172	25.00 / 41.00

“SDXL” SLIPS EXCEPT 7” TAKE 54 INSERTS
 3 1/2” “SDML” SLIPS TAKE 30 INSERTS
 ALL OTHER “SDML” SLIPS EXCEPT 7” TAKE 45 INSERTS
 7” “SDXL” SLIPS TAKE 72 INSERTS
 7” “SDML” SLIPS TAKE 60 INSERTS

KET “DU” TYPE ROTARY SLIPS

The KET “DU” Rotary Slips are designed for long trouble-free service. They are made of alloy steel and heat-treated for strength and resistance to wear. The slips are machined for use in API tapered bowls. The “DU” Regular has a 12” long gripping surface and is designed for wells 8000’ or less. The “DU” Long has a 16” long gripping surface and is designed for deeper wells and heavier drill strings. All KET “DU” Slips have an API taper of 4”/ft on the diameter.

KET “DU” TYPE ROTARY SLIPS

PART NO.	SLIP BODY SIZE	TYPE	TAPER/FT (TPF)	RATING (TONS)	WT.
A03-114-LR-F	4 1/2”	DU/REGULAR	4.00”	165	135
A03-115-LR-F	4 1/2”	DU/LONG	4.00”	180	164
A03-116-LR-F	5 1/2”	DU/REGULAR	4.00”	200	150
A03-117-LR-F	5 1/2”	DU/LONG	4.00”	250	180
A03-112-SDU-LR-F	5 1/2”	DU/LONG	4.00”	400	
A03-118-LR-F	7”	DU/REGULAR	4.00”	300	145
A03-119-SDU-F	7”	SDU/LONG	4.00”	400	210



REPLACEMENT PARTS FOR KET “DU” ROTARY SLIPS

PART NO.	ITEM#	DESCRIPTION	*SPARES	#REQ	REF.#	WT.
A03-105	1	HINGE PIN	2	2	7613-A-12	1.25
A03-103	2	DU LONG LINER KEY	3	3	7613-A-67	1.75
A03-104	3	DU REG. LINER KEY	3	3	7613-A-52	1.50
A03-106	4	FRONT HANDLE PIN	2	2	7613-B-12	.25
A03-107	5	REAR HANDLE PIN	1	1	7613-C-12	.38
A03-108	6	HINGE SPRING ASSY.	2	2	7613-211	1.25
100200-R	7	SAFETY FLEX HANDLE (REAR)	1	1	7613-5190	5.00
100200-F	7	SAFETY FLEX HANDLE (FRONT)	2	2	7613-5190	5.00

KET “DU” TYPE ROTARY SLIPS

INSERTS FOR 4-1/2” “DU” ROTARY TYPE SLIPS AND 4-1/2” “TS-100” SPIDER SLIPS

PART NO.	DESCRIPTION	REF.#	WT.	PART NO. (FULL FACE INSERTS)
A03-120	4 1/2” X 4 1/2”	7613-A-81	.75	A03-210
	4 1/2” X 4 3/8”	N/A	.80	A03-213
	4 1/2” X 4 1/4”	N/A	.85	A03-216
	4 1/2” X 4 1/8”	N/A	.90	A03-219
A03-121	4 1/2” X 4”	7613-FF-81	1.00	A03-221
	4 1/2” X 3 3/4”	N/A	1.75	A03-224
A03-122	4 1/2” X 3 1/2”	7613-C-82	1.50	A03-227
	4 1/2” X 3 3/8”	N/A	1.65	A03-229
	4 1/2” X 3 1/4”	N/A	1.75	A03-228
	4 1/2” X 3 1/8”	N/A	1.85	A03-230
	4 1/2” X 3”	N/A	1.90	A03-231
A03-123	4 1/2” X 2 7/8”	7613-B-82	2.00	A03-233
A03-124	4 1/2” X 2 3/8”	7613-A-82	2.25	A03-236
A03-125	4 1/2” X 2 1/16”	7613-M-82	2.50	A03-237
A03-126	4 1/2” X 1.900”	7613-H-82	2.75	A03-238
A03-127	4 1/2” X 1.660”	N/A	2.80	A03-239

INSERTS FOR 5-1/2” “DU” ROTARY TYPE SLIPS AND 5-1/2” “TS-100” SPIDER SLIPS

PART NO.	DESCRIPTION	REF.#	WT.	PART NO. (FULL FACE INSERTS)
	5 1/2” X 5 3/4”	N/A	.85	A03-241
A03-130	5 1/2” X 5 1/2”	7613-H-81	1.00	A03-240
A03-131	5 1/2” X 5”	7613-G-81	1.50	A03-243
	5 1/2” X 4 3/4”	N/A	1.75	A03-246
A03-132	5 1/2” X 4 1/2”	7613-E-81	2.00	A03-249
	5 1/2” X 4 3/8”	N/A	2.10	A03-247
	5 1/2” X 4 1/4”	N/A	2.15	A03-252
	5 1/2” X 4 1/8”	N/A	2.20	A03-255
A03-133	5 1/2” X 4”	N/A	2.25	A03-258
	5 1/2” X 3 3/4”	N/A	2.28	A03-261
A03-134	5 1/2” X 3 1/2”	7613-E-82	2.31	A03-264
	5 1/2” X 3 1/4”	N/A	2.38	A03-266
	5 1/2” X 3 1/8”	N/A	2.45	A03-268
	5 1/2” X 3”	N/A	2.52	A03-270
	5 1/2” X 2 7/8”	N/A	2.60	A03-275
	5 1/2” X 2 3/8”	N/A	2.80	A03-277

INSERTS FOR 7” “SDU” ROTARY TYPE SLIPS

PART NO.	DESCRIPTION	REF.#	WT.
A03-140	7” X 7”	7613-EE-81	1.25
A03-141	7” X 6 5/8”	7613-DD-81	1.75
A03-146	7” X 5 7/8”	N/A	3.00
A03-142	7” X 5 1/2”	7613-Z-81	3.25
A03-143	7” X 5”	7613-Y-81	3.75
A03-144	7” X 4 1/2”	7613-W-81	4.00

NOTE: “DU” REGULAR REQUIRES 18 INSERTS PER SET. “DU” LONG REQUIRES 24 INSERTS PER SET

4 1/2” & 5 1/2” “TS-100” SLIPS REQUIRE 12 INSERTS PER SET

* 1 SET INSERTS PER PIPE SIZE RECOMMENDED FOR 1 YEAR SPARES

KET “XD” TYPE ROTARY SLIPS

The RMET “XD” Rotary Slips are designed for long trouble-free service. They are made of alloy steel and heat-treated for strength and resistance to wear. The slips are machined for use in #3 insert bowls. The “XD” has a 16” long gripping surface and is designed for deeper wells and heavier drill strings. All RMET “XD” Slips have an API taper of 4”/ft on the diameter.

RMET “XD” TYPE ROTARY SLIPS

PART NO.	SLIP BODY SIZE	TYPE	TAPER/FT (TPF)	RATING (TONS)	WT.
A03-750-XD-F	7 5/8”	XD	4.00”	750	210
A03-750-XD	7 5/8”	XD	4.00”	750	208



REPLACEMENT PARTS FOR RMET “XD” ROTARY SLIPS

PART NO.	ITEM#	DESCRIPTION	*SPARES	#REQ	REF.#	WT.
A03-105	1	HINGE PIN	2	2	7613-A-12	1.25
A03-103	2	XD LONG LINER KEY	3	3	7613-A-67	1.75
A03-107	5	REAR HANDLE PIN	1	3	7613-C-12	.38
A03-108	6	HINGE SPRING ASSY.	2	2	7613-211	1.25
A03-300-F	7	SAFETY FLEX HANDLE (REAR)	3	3	7613-5190	5.00

PART NO.	ITEM#	DESCRIPTION	REQ.#	WT.
A03-750-5000	8	7 5/8” x 5” INSERT	18	7.10
A03-750-5500	8	7 5/8” x 5 1/2” INSERT	18	6.34
A03-750-5785	8	7 5/8” x 5 7/8” INSERT	18	5.71
A03-750-6625	8	7 5/8” x 6 5/8” INSERT	18	4.32
A03-750-6906	8	7 5/8” x 6.906” INSERT	18	3.75
A03-750-7000	8	7 5/8” x 7” INSERT	18	3.60
A03-750-7625	8	7 5/8” x 7 5/8” INSERT	18	2.25

*RECOMMENDED SPARE PARTS FOR 1 YEAR OPERATION

KET TYPE “B” ROTARY SLIPS

The KET Type “B” Rotary Slip is designed for light to medium well drilling operations. They are made of alloy steel and heat-treated for strength and resistance to wear. Its standard size ranges from 2 1/16” to 4 1/2” and is used in API tapered bowls. KET “Type B” Slips have an API taper of 4”/ft on the diameter.

PART NO.	DESCRIPTION	TAPER/FT (TPF)	RATING(TONS)	WT.
A19-450-F	KET 4-1/2” TYPE “B” ROTARY SLIP COMPLETE W/ FLEX HANDLES	4.00”	200	134.00



REPLACEMENT PARTS FOR KET TYPE “B” ROTARY SLIPS

PART NO.	ITEM#	DESCRIPTION	REF#	#REQ.	WT.
A19-101	1	HINGE PIN	737-000-0500	2	1.12
A19-103	2	HANDLE PIN	737-000-0400	3	.25
A19-106	3	INSERT RET. PIN	737-000-0600	3	.30
102050	4	FLEX HANDLE	N/A	3	5.00
A19-250	5	4-1/2” X 4-1/2”	757-044-0144	18/24	.85
A19-251	5	4-1/2” X 4”	757-044-0140	18/24	1.20
A19-252	5	4-1/2” X 3-1/2”	757-044-0134	18/24	1.75
A19-253	5	4-1/2” X 2-7/8”	757-044-0127	18/24	2.00
A19-254	5	4-1/2” X 2-3/8”	757-044-0123	18/24	2.15
A19-255	5	4-1/2” X 2-1/16”	N/A	18/24	2.45

KET TYPE “CMSXL” CASING SLIPS

The KET “CMSXL” and “CMS-3” Casing Slips have a multi-segment design which gives a full wrap-around to help prevent damage to casing. By adding or subtracting segments & inserts the slip can accommodate 6 5/8” - 30” O.D. casing. The segments are made of alloy steel and are heat-treated for strength and wear resistance, then machined to strict quality controlled standards. CMS-XL slip has an API taper of 4”/ft on the diameter



KET “CMSXL” CASING SLIPS COMPLETE

PART NO.	TYPE	REF#	CASING O.D.	TOTAL SEG.	TAPER/FT (TPF)	RATING (TONS) *	HINGE PINS	NO. OF HANDLES	BUTTON# - QTY	WT. COMP.
A14-111-F	CMSXL	5315	6 5/8"	12	4.00"	15T/SEG = 180	11	3	A14-628-144	205
A14-112-F	CMSXL	5301	7"	12	4.00"	15T/SEG = 180	11	3	A14-619-144	206
A14-113-F	CMSXL	5303	7 5/8"	12	4.00"	15T/SEG = 180	11	3	A14-630-144	204
A14-114-F	CMSXL	5305	8 5/8"	13	4.00"	15T/SEG = 195	12	3	A14-630-156	220
A14-115-F	CMSXL	5307	9 5/8"	14	4.00"	15T/SEG = 210	13	4	A14-630-168	240
A14-116-F	CMSXL	5309	10 3/4"	15	4.00"	15T/SEG = 225	14	4	A14-630-180	256
A14-117-F	CMSXL	5311	11 3/4"	17	4.00"	15T/SEG = 255	16	4	A14-627-204	288
A14-118-F	CMSXL	5313	13 3/8"	18	4.00"	15T/SEG = 270	17	4	A14-630-216	304
A14-119-F	CMSXL	5325	16"	21	4.00"	15T/SEG = 315	20	4	A14-631-252	351
A14-120-18-F	CMSXL	5333	18"	24	4.00"	15T/SEG = 360	23	4	A14-625-288	405
A14-120-F	CMSXL	5333	18 5/8"	25	4.00"	15T/SEG = 375	24	4	A14-626-300	417
A14-121-F	CMSXL	5329	20"	25	4.00"	15T/SEG = 375	24	4	A14-631-312	416
A14-162-F	CMSXL		22"	29	4.00"	15T/SEG = 435	28	4	13868-348	548
A14-122-F	CMSXL	5331	24"	30	4.00"	15T/SEG = 450	29	5	A14-631-360	500
A14-123-F	CMSXL	5346	26"	32	4.00"	15T/SEG = 480	31	5	A14-631-396	531
A14-124-F	CMSXL	5342	30"	36	4.00"	15T/SEG = 500	35	5	A14-631-444	598

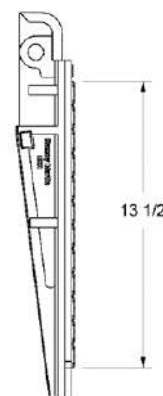
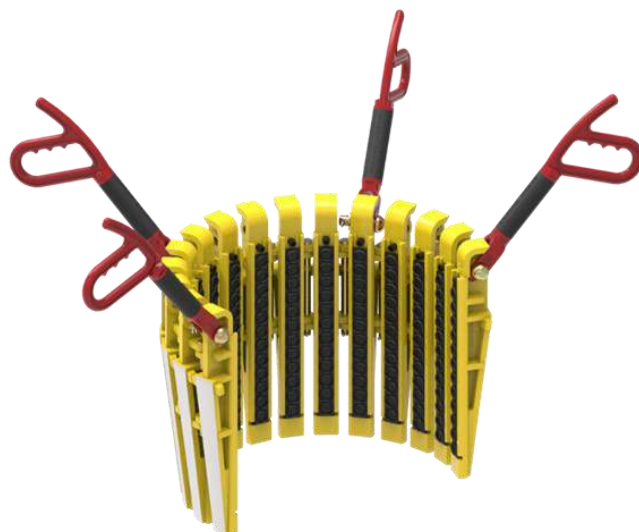
NOTE: ALL SLIPS 9 5/8" AND LARGER ARE FURNISHED WITH 4 OR MORE HANDLES.
ALL PARTS ARE INTERCHANGEABLE WITH CORRESPONDING DESIGN TYPE "CMSXL" CASING SLIPS.

ALL PARTS ARE INTERCHANGEABLE W/"CMSXL" EXCEPT SEGMENTS
"CMS-XL" TYPE SLIP IS AVAILABLE IN CUSTOM SIZES UPON REQUEST.

* DUAL SLIP RATING. NOT TO EXCEED 500 TONS

KET TYPE “CMS-3” CASING SLIPS

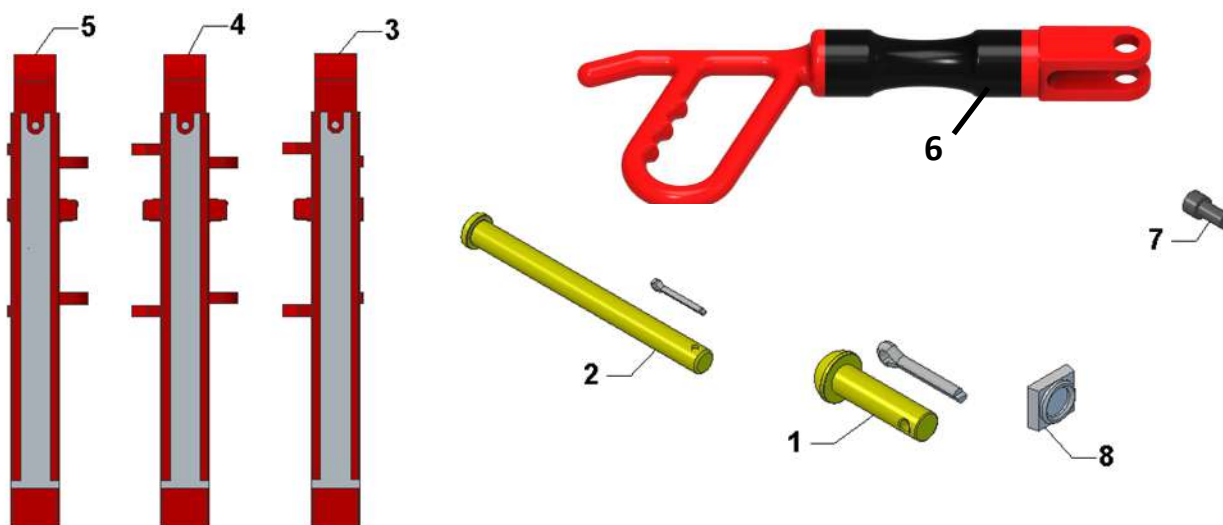
The KET “CMSXL” and “CMS-3” Casing Slips have a multi-segment design which gives a full wrap-around to help prevent damage to casing. By adding or subtracting segments & inserts the slip can accommodate 9 5/8” - 30” O.D. casing. The segments are made of alloy steel and are heat-treated for strength and wear resistance, then machined to strict quality controlled standards. CMS-3 slip has an API taper of 3”/ft on the diameter.



KET “CMS-3” CASING SLIPS COMPLETE

PART NO.	TYPE	REF#	CASING O.D.	TOTAL SEG.	TAPER/FT (TPF)	HINGE PINS	NO. OF HANDLES	BUTTON# - QTY	WT. COMP.
A14-134-F	CMS-3	5315	9-5/8"	14	3.00"	13	4	A14-513-168	214
A14-135-F	CMS-3	5301	10-3/4"	15	3.00"	14	4	A14-630-180	224
A14-136-F	CMS-3	5303	11-3/4"	17	3.00"	16	4	A14-627-204	255
A14-137-F	CMS-3	5305	13-3/8"	18	3.00"	17	4	A14-630-216	268
A14-138-F	CMS-3	5307	16"	21	3.00"	20	4	A14-631-252	310
A14-139-F	CMS-3	5309	18-5/8"	25	3.00"	24	4	A14-626-300	367
A14-140-F	CMS-3	5311	20"	25	3.00"	24	4	A14-631-312	366
A14-141-F	CMS-3	5313	24"	30	3.00"	29	5	A14-631-360	440
A14-142-F	CMS-3	5325	26"	32	3.00"	31	5	A14-631-396	468
A14-143-F	CMS-3	5333	30"	36	3.00"	35	5	A14-631-444	524

KET TYPE “CMS” CASING SLIPS



REPLACEMENT PARTS FOR “CMS” & “CPS” SLIPS

PART NO.	ITEM#	DESCRIPTION	REF.#	**SPARES	WT.
A14-105	1	HANDLE PIN w/WASHER & COTTER	3769	3	.50
A14-106	2	HINGE PIN w/COTTER	2525	2	.60
A14-100	3	RIGHT HAND SEGMENT f/CMSXL SLIP	5320		12.00
A14-148	3	RIGHT HAND SEGMENT f/CMS-3” SLIP	N/A		11.00
A14-107	4	INTERMEDIATE SEGMENT f/CMSXL SLIP	5322		12.00
A14-149	4	INTERMEDIATE SEGMENT f/CMS-3” SLIP N/A	N/A		11.00
A14-101	5	LEFT HAND SEGMENT f/CMSXL SLIP	5321		12.00
A14-150	5	LEFT HAND SEGMENT f/CMS-3” SLIP	N/A		11.00
102100	6	SAFETY FLEX HANDLE	N/A	3	4.00
A14-090	7	BUTTON RETAINER SCREW	N/A		.05
	8	BUTTON INSERTS (SEE TABLE ABOVE)	N/A		VARIES

ALL PARTS ARE INTERCHANGEABLE WITH CORRESPONDING DESIGN TYPE “CMSXL” SLIPS

**RECOMMENDED SPARE PARTS FOR 1 YEAR OPERATION

*FOR RECOMMENDED SPARES INCLUDE 1 SET OF INSERTS FOR EACH PIPE SIZE

KET “CPS” CONDUCTOR PIPE SLIPS

PART NO.	PIPE O.D.	WT. COMPLETE	TOTAL SEGMENTS	HINGE SPACERS	INSERTS
A14-244	24”	276	13	12	2631-156
A14-266	26”	296	14	13	2631-168
A14-330	30”	319	16	15	2631-192

NOTE: ALL PARTS ARE INTERCHANGEABLE WITH “CMSXL” SLIP

KET TYPE “UC-3” CASING SLIPS

The “UC-3” Type Casing Slip has a 3” taper designed with a single liner per segment and a liner keeper assembly with bolt and washer. It has a size range of 9-5/8” through 10 3/4”. The inserts are a continuous one-piece design with approximately 8 1/2” of contact length. For added safety, the Ramey Martin “UC-3” Casing Slip is also provided with safety flex handles as a standard option with steel handles available upon request.

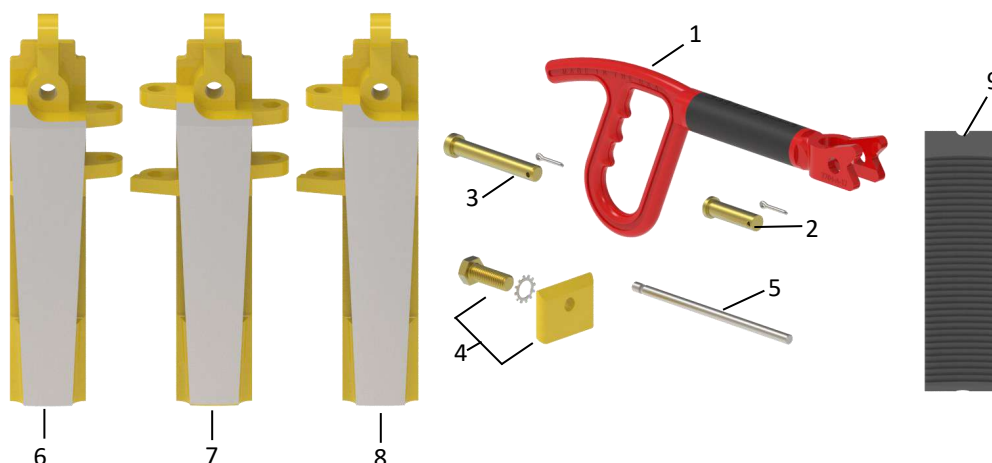


REPLACEMENT PARTS FOR RMET “UC-3” CASING SLIPS

RMET#	SLIP SIZE	W/INSERTS FOR O.D.	INT. SEG./PN (#7)	R.H. SEG./PN (#8)	L.H. SEG./PN (#6)	TAPER/FT (TPF)	WT.
A7704-5028-F	10 3/4"	10 3/4" O.D.	8 / 7704-A-31	1 / 7704-A-32	1 / 7704-A-33	3.00"	160
A7704-5029-F	10 3/4"	9 5/8" O.D.	8 / 7704-A-31	1 / 7704-A-32	1 / 7704-A-33	3.00"	180
A7704-103-F	10 3/4"	LESS LINERS	8 / 7704-A-31	1 / 7704-A-32	1 / 7704-A-33	3.00"	130
A7704-5025-F	13 3/8"	13 3/8" O.D.	10 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	195
A7704-5026-F	13 3/8"	12 3/4" O.D.	10 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	222
A7704-5027-F	13 3/8"	11 3/4" O.D.	10 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	228
A7704-104-F	13 3/8"	LESS LINERS	10 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	153
A7704-5036-F	16"	16" O.D.	12 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	226
A7704-106-F	16"	LESS LINERS	12 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	176
A7704-5034-F	20"	20" O.D.	15 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	283
A7704-5035-F	20"	18 5/8" O.D.	15 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	325
A7704-110-F	20"	LESS LINERS	15 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	223
A7704-5001-F	24"	24" O.D.	17 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	312
A7704-5002-F	24"	22 1/2" O.D.	17 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	359
A7704-5009-F	24"	LESS LINERS	17 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	246
A7704-5006-F	26"	26" O.D.	19 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	325
A7704-5010-F	26"	LESS LINERS	19 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	252
A7704-5005-F	30"	30" O.D.	22 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	367
A7704-5011-F	30"	LESS LINERS	22 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	283
A7704-5007-F	36"	36" O.D.	26 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	437
A7704-5013-F	36"	LESS LINERS	26 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	340
A7704-5019-F	42"	42" O.D.	30 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	495
A7704-5018-F	42"	LESS LINERS	30 / 7704-A-35	1 / 7704-A-36	1 / 7704-A-37	3.00"	375

*“UC-3” TYPE SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST. TO ORDER REMOVE THE (-F) FROM THE END OF THE PART

KET TYPE “UC-3” CASING SLIPS



REPLACEMENT PARTS FOR RMET “UC-3” CASING SLIPS

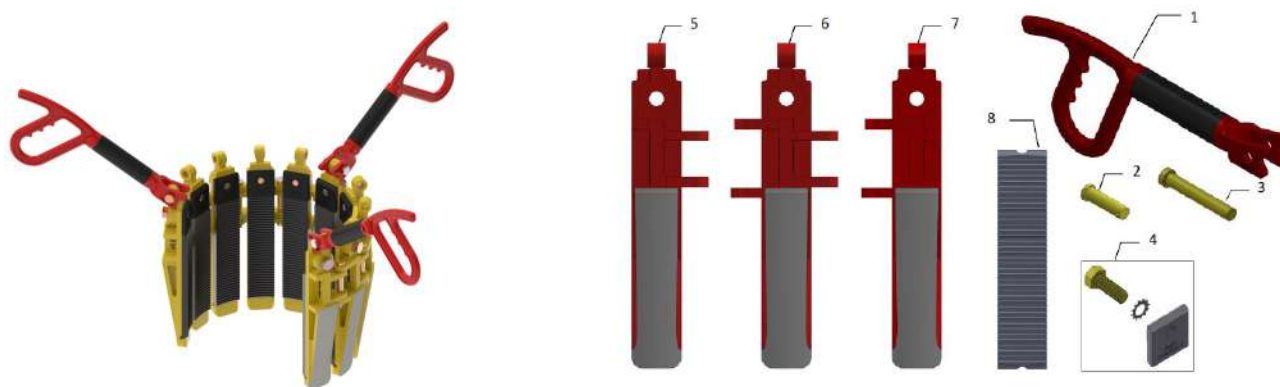
RMET#	ITEM#	DESCRIPTION	10 3/4" NO.	13 3/8" NO.	16" NO.	20" NO.	24" NO.	26" NO.	30" NO.	36" NO.	42" NO.	WT.
A7704-A-17-F	1	FLEX HANDLE	3	4	4	4	4	4	4	6	6	4.00
A7704-A-17	N/P	HANDLE	3	4	4	4	4	4	4	6	6	5.50
A7704-A-16	2	HANDLE PIN W/	3	4	4	4	4	4	4	6	6	.5
A7704-B-16	3	HINGE PIN W/	9	11	13	16	18	20	23	27	31	.375
A7704-5024	4	KEEPER ASSY.	10	12	14	17	19	21	24	28	32	.25
A7704-A-29	5	LINER RETAINER	*	*	*	*	*	*	*	*	*	.25

LINERS FOR RMET “UC-3” & “UC-4” CASING SLIPS

RMET#	ITEM#	SLIP SIZE	PIPE SIZE	#REQ.	WT.
A7704-A-8	9	10 3/4"	10 3/4"	10	3.50
A7704-A-9	9	10 3/4"	9 5/8"	10	7.38
A7704-A-38	9	13 3/8"	13 3/8"	12	3.75
A7704-A-92	9	13 3/8"	12 3/4"	12	5.75
A7704-A-39	9	13 3/8"	11 3/4"	12	10.18
A7704-A-99	9	16"	16"	14	3.50
A7704-A-99	9	20"	20"	17	3.50
A7704-A-9000	9	20"	18 5/8"	17	6.00
A7704-A-99	9	24"	24"	19	3.50
A7704-A-5000	9	24"	22 1/2"	19	6.00
A7704-A-100	9		26" -42"	AS	3.50

KET TYPE “UC-4” CASING SLIPS

The RMET “UC” Casing Slips have a multi-segment design which gives a full wrap-around to help prevent damage to casing. The slip can accommodate 7” - 8 5/8” O.D. casing. The segments are made of alloy steel and are heat-treated for strength and wear resistance, then machined to strict quality controlled standards. The UC-4 slip has an API taper of 4”/ft on the diameter



RMET “CMSXL” CASING SLIPS COMPLETE

PART NO.	TYPE	CASING O.D.	TOTAL SEG.	TAPER/FT (TPF)	RATING (TONS) *	HINGE PINS	NO. OF HANDLES	LINER# - QTY	WT. COMP.
A7704-5031-LR-F	UC	8 5/8"	10	4.00"	200		3	10	
A7704-5032-LR-F	UC	7 5/8"	10	4.00"	200		3	10	
A7704-5033-LR-F	UC	7"	10	4.00"	200		3	10	

PART NO.	ITEM#	DESCRIPTION	QTY	**SPARES	WT.
A7704-A-17-F	1	FLEX HANDLE	3	3	
A7704-A-17	-	STEEL HANDLE	3	3	
A7704-A-16	2	HANDLE PIN W/COTTER	3	3	
A7704-B-16	3	HNGE PIN W/ COTTER	9	2	
A7704-5024-4	4	KEEPER ASSY W/ BOLT AND WASHER	10		
A7704-A-114	5	LEFT HANDE SEGMENT	1		
A7704-A-110	6	INTERMEDIATE SEGMENT	8		
A7704-A-115	7	RIGHT HAND SEGMENT	1		
A7704-A-22	8	8 5/8" X 8 5/8" UC-4 LINER	10		
A7704-A-113	8	8 5/8" X 7 5/8" UC-4 LIER	10		
A7704-A-112	8	8 5/8" X 7" UC-4 LINER	10		



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