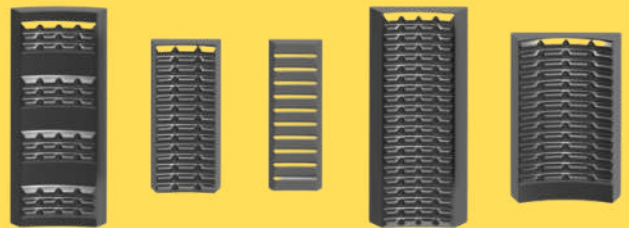


Handling Tools
Dies & Inserts
Safety Products
Float Valves



drilling@psbvn.com

Whatsapp/Line/Zalo+ 84 89 6677 890



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

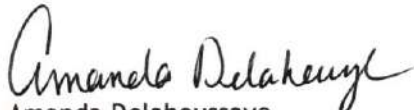
Hereinafter called Pressure System Builders Vietnam, is the authorized distributor for KET products across Southeast Asia.

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

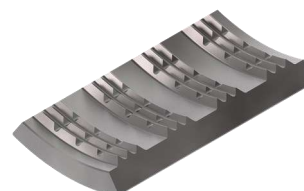
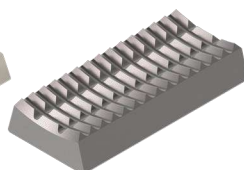
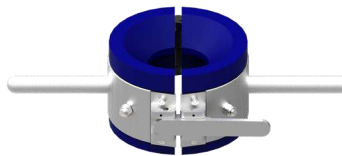
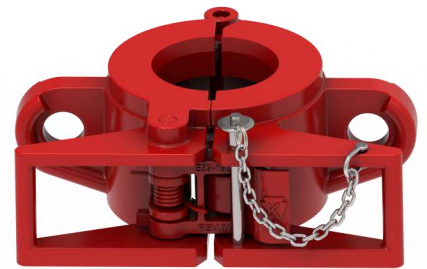
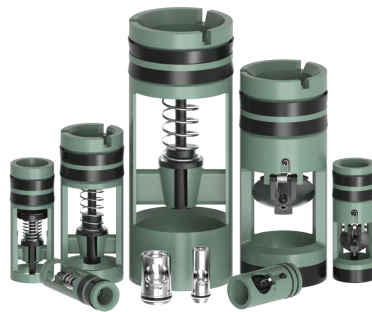
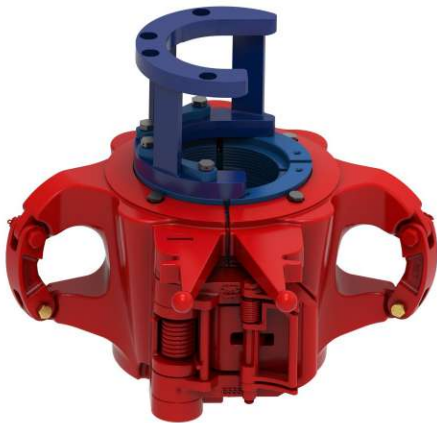


bridge the gap.

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.

**American
Petroleum
Institute**

®

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

2019.151 | Digital

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

Senior Vice President of Global Industry Services

Anchal Liddar



ABOUT US



Keystone Energy Tools was established to provide the industry with support and stability from an **API 8C** certified manufacturer with over fifty years of combined experience in designing, manufacturing, and delivering high-quality oilfield tools. In addition to providing complete in-house **certification**.

With our years of experience of **bridging the gap** between quality and service, customers and distributors, and performance and economy, Keystone understands the critical requirements of the oil and gas industry, from on-time delivery to competitive pricing and product availability.

By using the latest in 3D modeling for product design and by staying current with the rapid advances in manufacturing technology and quality-assurance standards, Keystone is able to manufacture and produce the most reliable products on the market today.

Our experienced sales team is dedicated, always here to support our customers and distributors and ready to answer any questions that you have regarding our products. We pride ourselves on same-day quotes and expedited shipping.

OUR NAME SAYS IT ALL:

keystone (kē'stōn')

1. the topmost stone of an arch
2. a central cohesive source of stability
3. something on which associated things depend for support

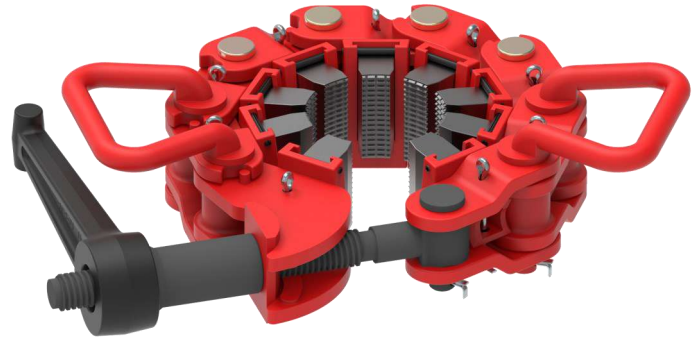
HISTORY:

Keystone was created in 2009 by Joe Ramey, founder of Access Oil Tools. Our focus is to build long-term relationships with our customers and distributors and to provide them with quality products and service with one phone call or e-mail.

The float valve product line was established in 2009, and in 2011 our product line was expanded to include **elevators, slips, rotating mouse holes, safety flex handles for slips, safety handles for tongs, safety clamps, baffle plates, valve pullers, ST-80' Dies and Inserts, stabbing guides, tong die drivers, tong blocks, beckets and bails, mud screens, and automated slip-lifting devices.**

KET TYPE "MP" SAFETY CLAMPS

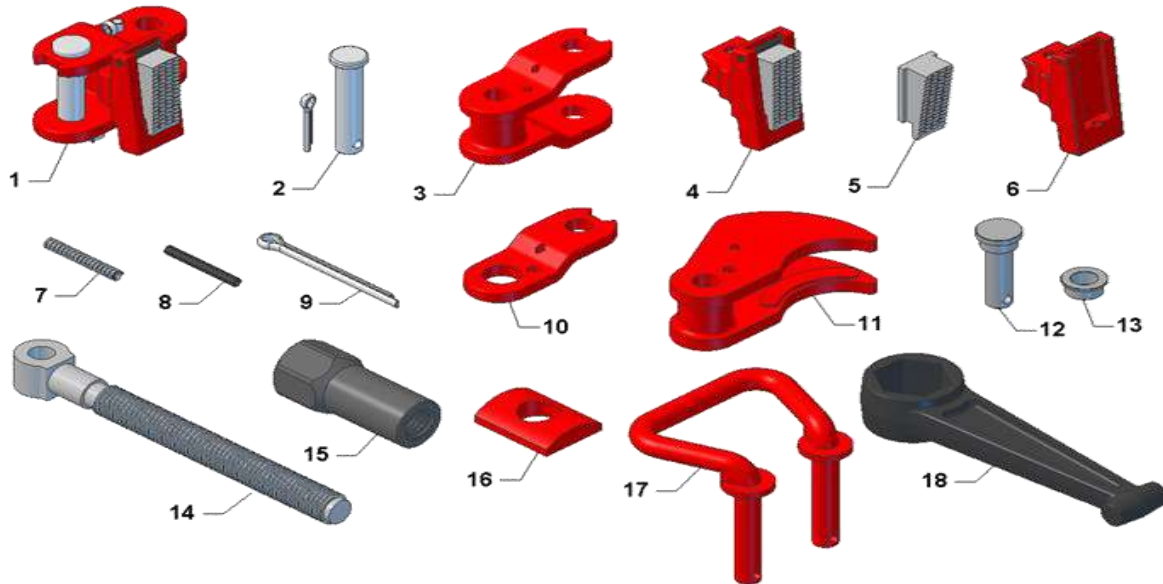
The KET Type "MP" Safety Clamp is ideal to help safeguard against dropping strings of flush joint tubing while making up or breaking out the string. The multi-link design provides uniform pressure around the pipe reducing the risk of crushing or damaging the pipe. Each assembly is provided with its own aluminum box as a standard option.



KET TYPE "MP" SAFETY CLAMP ASSEMBLIES COMPLETE

PART NO.	RANGE	REF#	# LINKS	GRIPPING DIES	WT.
MP-S					
A31-009	2 7/8" - 4 1/8"	33030	7	8	128.00
A31-010	4" - 5"	33031	8	9	133.00
MP-R					
A31-011	4 1/2" - 5 5/8"	33011	7	8	120.00
A31-012	5 1/2" - 7"	33012	8	9	130.00
A31-013	6 3/4" - 8 1/4"	33013	9	10	138.00
A31-014	8" - 9 1/4"	33014	10	11	147.00
A31-015	9 1/4" - 10 1/2"	33015	11	12	155.00
MP-M					
A31-016	10 1/2" - 11 1/2"	33016	12	13	163.00
A31-017	11 1/2" - 12 1/2"	33017	13	14	171.00
A31-018	12 1/2" - 13 5/8"	33018	14	15	179.00
A31-019	13 5/8" - 14 3/4"	33019	15	16	187.00
A31-020	14 3/4" - 15 7/8"	31020	16	17	195.00
MP-L					
A31-021	15 7/8" - 17"	33021	17	18	215.00
A31-022	17" - 18 1/2"	33022	18	19	223.00
A31-023	18 1/8" - 19 3/8"	33023	19	20	231.00
MP-XL					
A31-024	19 3/8" - 20 3/8"	33024	19	20	280.00
A31-025	20 3/8" - 21 1/2"	33025	20	21	288.00
A31-032	21" - 22 5/8"	33032	21	22	296.00
A31-033	22 5/8" - 23 3/4"	33033	22	23	304.00
A31-034	23 3/4" - 24 7/8"	33034	23	24	312.00
A31-035	24 7/8" - 26"	33035	24	25	320.00
A31-036	26" - 27 1/8"	33036	25	26	328.00
A31-039	29 3/8" - 30 1/2"	33039	28	29	336.00

KET TYPE “MP” SAFETY CLAMPS



REPLACEMENT PARTS FOR KET “MP” TYPE SAFETY CLAMPS

PART NO.	ITEM#	DESCRIPTION	CLAMP TYPE	REF.#	QTY.	WT.
A31-335	1	LINK COMPLETE	MP-S ONLY	3335	AR	9.00
A31-319	1	LINK COMPLETE	ALL EXCEPT MP-S	3319	AR	8.75
A31-307	2	PIN, FOR LINK (w/COTTER)	ALL	3307	AR	.75
A31-306	3	LINK (W/COTTER)	ALL	3306	AR	4.50
A31-325	4	CARRIER ASSY. (w/DIE)	MP-S ONLY	3325	AR	3.00
A31-324	4	CARRIER ASSY. (w/DIE)	ALL EXCEPT MP-S	3324	AR	2.50
A31-333	5	DIE (w/COTTER)	MP-S ONLY	3333	AR	1.50
A31-310	5	DIE (w/COTTER)	ALL EXCEPT MP-S	3310	AR	1.00
A31-309	6	CARRIER (LESS DIE)	ALL	3309	AR	2.50
A31-311	7	SPRING	ALL	3311	AR	.10
A31-418	8	ROLL PIN (DIE KEEPER)	ALL	51604-18	AR	.10
A31-528	9	COTTER PIN (f/CARRIER)	ALL	51405-28	AR	.18
A31-318	10	SIDE BAR LINKS (PAIR)	ALL	3318	AR	2.50
A31-304	11	LATCH LINK	ALL EXCEPT MP-XL	3304	1	7.00
A31-321	11	LATCH LINK	MP-XL ONLY	3321	1	14.00
A31-308	12	PIN FOR SCREW, (w/COTTER)	ALL	3308	1	.50
A31-315	13	BUSHING F/SCREW PIN	ALL	3315	1	.33
A31-510		COTTER F/LINK PIN	ALL	51405-10	AR	.08
A31-302	14	SCREW	ALL	3302	1	5.25
A31-303	15	NUT F/ SCREW	ALL	2714	1	1.00
A31-714	16	THRUST WASHER	ALL	3303	1	3.50
A31-305	17	HANDLE	MP-S,MP-R, & MP-M	3305	2	4.50
A31-305	17	HANDLE	MP-L & MP-XL	3305	4	4.50
A31-316	N/P	HOLD DOWN LUG	ALL	3316	OPT.	5.75
A31-317	N/P	LIFTING EYE	ALL	3317	OPT.	4.75
A31-320	18	NUT WRENCH	ALL	3320	1	5.00

KET TYPE “MP” SAFETY CLAMPS

RECOMMENDED SPARE PARTS FOR 1 YEAR FOR “MP” TYPE CLAMPS

PART NO.	DESCRIPTION	MP -S	MP -R	MP -M	MP -L	MP -XL
A31-333	DIE W/COTTER	4				
A31-310	DIE W/COTTER		6	8	10	13
A31-311	SPRING	9	12	17	20	26
A31-528	PIN W/COTTER	4	6	8	10	13
A31-418	ROLL PIN	9	12	17	20	26

KET TYPE “C” SAFETY CLAMP

The KET Type “C” Safety Clamp is one of the most valuable tools on the Rig Floor. It helps guard against dropping flush-joint pipe, streamlined drill collars, etc. into the hole while making-up or breaking-out the string. Literally, it has dozens of money and time-saving applications in oilfield work, in addition to giving increased protection against fishing jobs.

The Safety Clamp consists of individual links, flexibly hinged together. Each link has a separate tapered slip which acts as a gripping member, much like a tapered rotary slip, and each slip is held in a retracted position on the taper by spring tension. When the clamp is tightened, each small slip takes a firm initial grip on the surface of the pipe. Should the pipe start to fall, or should load increase occur against the slips, the taper mounting causes each slip to wedge tighter against the surface of the pipe to increase the grip or lock the pipe against further movement.



CLAMPS WITH HANDLES & WRENCH

TYPE “CR” (SINGLE SCREW)

PART NO.	RANGE O.D. SIZE	REFERENCE	LINKS REQUIRED	WT.
A12-127	3 3/4" - 4 5/8"	7624-5007	7	46.00
A12-128	4 1/2" - 5 5/8"	7624-5008	8	55.00
A12-129	5 1/2" - 6 5/8"	7624-5009	9	60.00
A12-130	6 1/2" - 7 5/8"	7624-5010	10	64.00
A12-131	7 1/2" - 8 5/8"	7624-5011	11	69.00
A12-132	8 1/2" - 9 5/8"	7624-5012	12	73.00
A12-133	9 1/2" - 10 5/8"	7624-5013	13	78.00

TYPE “CL” (SINGLE SCREW)

PART NO.	RANGE O.D. SIZE	LINKS REQUIRED	WT.
A12-134	10 1/2" - 11 5/8"	14	72.00
A12-135	11 1/2" - 12 5/8"	15	77.00
A12-136	12 1/2" - 13 5/8"	16	82.00
A12-137	13 1/2" - 14 5/8"	17	87.00
A12-138	14 1/2" - 15 5/8"	18	92.00

KET TYPE "C" SAFETY CLAMP

TYPE "CXL" (DOUBLE SCREW)

PART NO.	RANGE O.D. SIZE	LINKS REQUIRED	WT.
A12-145	15 1/2" - 17"	18	114.00
A12-146	16 1/2" - 18"	19	119.00
A12-147	17 1/2" - 19"	20	124.00
A12-148	18 1/2" - 20"	21	129.00

CLAMPS WITH LIFTING CLEVIS- TYPE "CL" (SINGLE SCREW)

PART NO.	RANGE O.D. SIZE	LINKS REQUIRED	WT.
A12-150	10 1/2" - 11 5/8"	14	83.00
A12-151	11 1/2" - 12 5/8"	15	88.00
A12-152	12 1/2" - 13 5/8"	16	93.00
A12-153	13 1/2" - 14 5/8"	17	98.00
A12-154	14 1/2" - 15 5/8"	18	102.00

CLAMPS WITH LIFTING CLEVIS- TYPE "C X L" (DOUBLE SCREW)

PART NO.	RANGE O.D. SIZE	LINKS REQUIRED	WT.
A12-155	15 1/2" - 17"	18	117.00
A12-156	16 1/2" - 18"	19	121.00
A12-157	17 1/2" - 19"	20	126.00
A12-158	18 1/2" - 20"	21	131.00
A12-159	19 1/2" - 21"	22	133.00
A12-160	21 1/8" - 23"	24	136.00
A12-161	24 1/8" - 26"	27	140.00
A12-162	29 1/2" - 31"	32	152.00
A12-163	35 1/2" - 37"	38	164.00
A12-164	41 1/2" - 47"	44	181.00
ADD -"B" TO END OF PART # TO INCLUDE BOX			

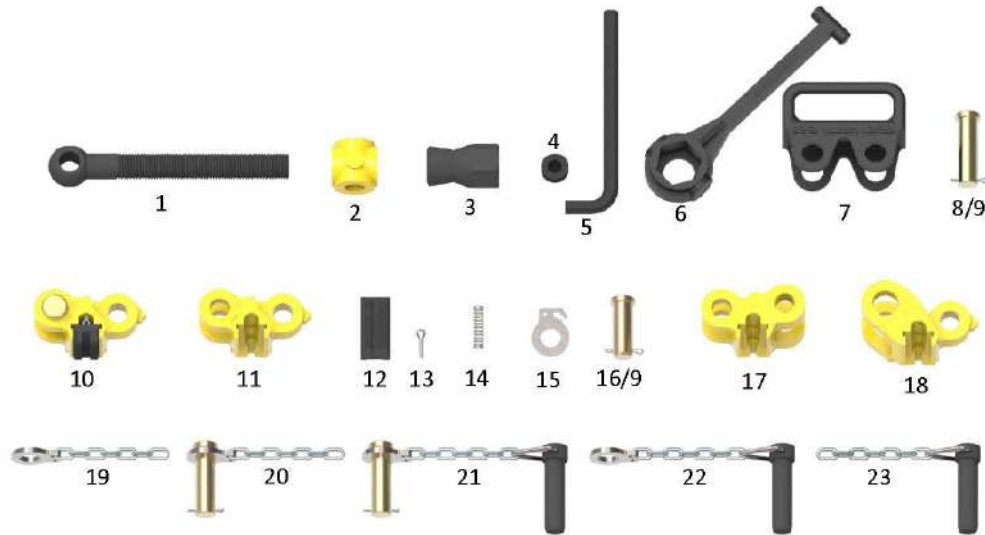
SAFETY CLAMP CONVERSION KIT

The KET Clamp Conversion Kit A is designed to allow the end link pin to be removed from the screw to open the clamp. A special lock bushing and retainer added to the screw is designed to prevent the nut from backing off. The end link pin also includes a double lanyard for added support.



PART NO.	ITEM	DESCRIPTION	WT.
A12-100-A		SAFETY CLAMP CONVERSION KIT A	8.80
A11-111-S	1	SAFETY CLAMP SCREW, SPECIAL	4.50
A11-112	2	NUT FOR T & C SAFETY CLAMP	1.75
A11-111-LB	3	SAFETY CLAMP SCREW LOCK BUSHING	.30
A11-110-SD	4	END LINK PIN W/ CHAIN, CABLE, AND RETAINER	1.40
A11-117	5	HANDLE PIN WITH COTTER	.85

KET TYPE "C" SAFETY CLAMP



REPLACEMENT PARTS FOR TYPE "C" SAFETY CLAMPS

PART NO.	ITEM	DESCRIPTION	REF#	*SPARES	WT.
A11-111	1	SCREW	7624-A-5	1	4.00
A11-113	2	PIVOT BLOCK	7624-A-5000	1	1.50
A11-112	3	NUT	7624-B-5	1	1.50
A11-114	4	PIVOT BLOCK PIN	7624-D-5	2	.25
A11-119	5	PIVOT BLOCK PIN WRENCH	900533-12		.25
A11-115	6	NUT WRENCH	7624-A-25	1	3.50
A12-116	7	HANDLE		1 SET	3.00
A11-117	8	HANDLE LINK PIN w/COTTER	7624-G-5	AS REQ'D	.75
A11-107	9	COTTER f/ LINK PIN	900620-36		.01
A12-101	10	LINK ASSY. COMPLETE	7624-A-7		5.00
A12-102	11	LINK INTERMEDIATE	7624-A-1	1 SET	3.75
A12-103	12	INSERT	7624-A-4	1 SET	.60
A12-104	13	COTTER f/ INSERT	900620-36		.01
A12-105	14	SPRING f/ INSERT	7624-E-5	1 SET	.01
A11-110-R	15	END LINK PIN RETAINER		1	.18
A11-106	16	LINK PIN w/ COTTER	7624-C-5	1 SET	.70
A12-108	17	END LINK (SCREW)	7624-A-3	1	4.50
A12-109	18	END LINK (PIVOT BLOCK)	7624-A-24	1	3.50
A11-110-RA	19	END LINK RETAINER WITH CHAIN			.30
A11-110-2	20	END LINK PIN RETAINER W/ CHAIN AND HANDLE PIN			1.14
A11-110-1	21	END LINK PIN W/ CHAIN & RETAINER ASSEMBLY		1	2.24
A11-110-S	22	END LINK PIN W/ CHAIN & RETAINER	7624-F-5		1.40
A11-110-4	N/P	END LINK PIN W/ CABLE AND RETAINER			1.30
A11-110	23	END LINK PIN WITH CHAIN			1.22
A11-110-3	N/P	END LINK PIN WITH CABLE			1.12
A11-120	N/P	SAFETY CLAMP BOX			20.00
A12-119	N/P	LIFTING CLEVIS COMPLETE			11.50
A12-120	N/P	LIFTING CLEVIS ONLY			9.00
A12-121	N/P	BOLTS W/NUTS AND COTTERS			2.50

ALL PARTS ARE INTERCHANGEABLE WITH CORRESPONDING DESIGN TYPE "C" SAFETY CLAMPS

* RECOMMENDED SPARE PARTS FOR 1 YEARS SERVICE

KET TYPE “T” SAFETY CLAMP

The KET Type “T” Safety Clamp is designed for small diameter pipe 1 1/8” - 4 1/2” O.D. Each link changes the effective working range approximately 1” in diameter. For sizes larger than 4 1/2” O.D., the Type “C” Safety Clamp should be used.

The same positive automatic gripping principle is used as in the Type “C” Safety Clamp. It is ideal to help safeguard against dropping strings of flush joint tubing, to provide a shoulder to position strings of flush line pipe for welding, and many other Applications.

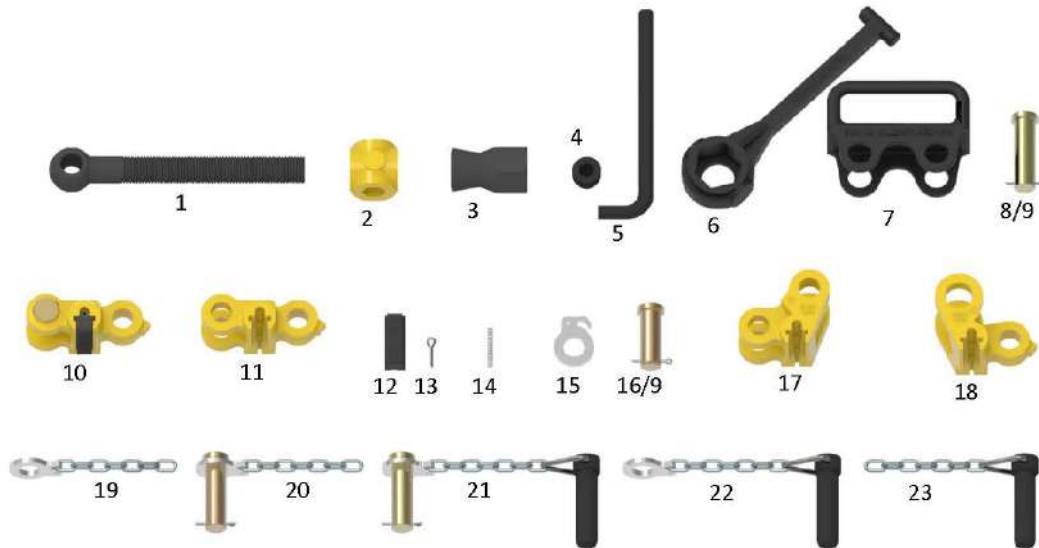


SAFETY CLAMP ASSEMBLIES COMPLETE - TYPE “T”

PART NO.	RANGE O.D. SIZE	REFERENCE	LINKS REQUIRED	WT.
A11-125	1 1/8” - 2”	7624-5103	4	35
A11-126	2 1/8” - 3 1/4”	7624-5104	5	39
A11-127	3 1/2” - 4 1/2”	7624-5105	6	43
ADD -“B” TO END OF PART NO. TO INCLUDE BOX				

ALL CLAMPS COME COMPLETE WITH WRENCH.
BOX SOLD SEPERATELY

KET TYPE "T" REPLACEMENT PARTS



REPLACEMENT PARTS FOR TYPE "T" SAFETY CLAMP

PART NO.	ITEM	DESCRIPTION	REFERENCE#	*SPARES	WT.
A11-111	1	SCREW	7624-A-5	1	4.00
A11-113	2	PIVOT BLOCK	7624-A-5000	1	1.50
A11-112	3	NUT	7624-B-5	1	1.50
A11-114	4	PIVOT BLOCK PIN	7624-D-5	2	.25
A11-119	5	PIVOT BLOCK PIN WRENCH	900533-12		.25
A11-115	6	NUT WRENCH	7624-A-25	1	3.50
A11-116	7	HANDLE	7624-A-22	1 SET	3.00
A11-117	8	HANDLE LINK PIN w/COTTER	7624-G-5	AS REQ'D	.75
A11-107	9	COTTER f/ LINK PIN	900620-36		.01
A11-101	10	LINK ASSY. COMPLETE	7624-B-7		5.00
A11-102	11	LINK INTERMEDIATE	7624-A-18	1 SET	3.75
A11-103	12	INSERT	7624-A-21	1 SET	.60
A11-104	13	COTTER f/ INSERT	900620-52		.01
A11-105	14	SPRING f/ INSERT	7624-B-21	1 SET	.01
A11-110-R	15	END LINK PIN RETAINER		1	.18
A11-106	16	LINK PIN w/ COTTER	7624-C-5	1 SET	.70
A11-108	17	END LINK (SCREW)	7624-A-20	1	4.50
A11-109	18	END LINK (PIVOT BLOCK)	7624-A-19	1	3.50
A11-110-RA	19	END LINK RETAINER WITH CHAIN			.30
A11-110-2	20	END LINK PIN RETAINER W/ CHAIN AND HANDLE PIN			1.14
A11-110-1	21	END LINK PIN W/ CHAIN & RETAINER ASSEMBLY		1	2.24
A11-110-S	22	END LINK PIN W/ CHAIN & RETAINER	7624-F-5		1.40
A11-110-4	N/P	END LINK PIN W/ CABLE AND RETAINER			1.30
A11-110	23	END LINK PIN WITH CHAIN			1.22
A11-110-3	N/P	END LINK PIN WITH CABLE			1.12
A11-120	N/P	SAFETY CLAMP BOX	7624-A-9		20.00

ALL PARTS ARE INTERCHANGEABLE WITH BAASH-ROSS® TYPE "T" SAFETY CLAMPS

** RECOMMENDED SPARE PARTS FOR 1 YEARS SERVICE

KET SLIP SAFETY FLEX HANDLES

Keystone Slip Safety Flex Handles incorporate investment cast slip connectors and handles with thumb guards. They are joined together with high strength chain which is then covered with rubber to prevent corrosion. KET Slip Handles were load tested to over 8,000 lbs. All handles are proof load tested to 1,000 lbs. prior to shipment.

- ▶ Eliminates cuts from frayed cables
- ▶ Reduces back injuries
- ▶ Improves ergonomics



C-1 and Woolley A Flex Handle

DU Flex Handle

UC Flex Handle

SD, DC, and CMSXL Flex Handle

Woolley B Flex Handle

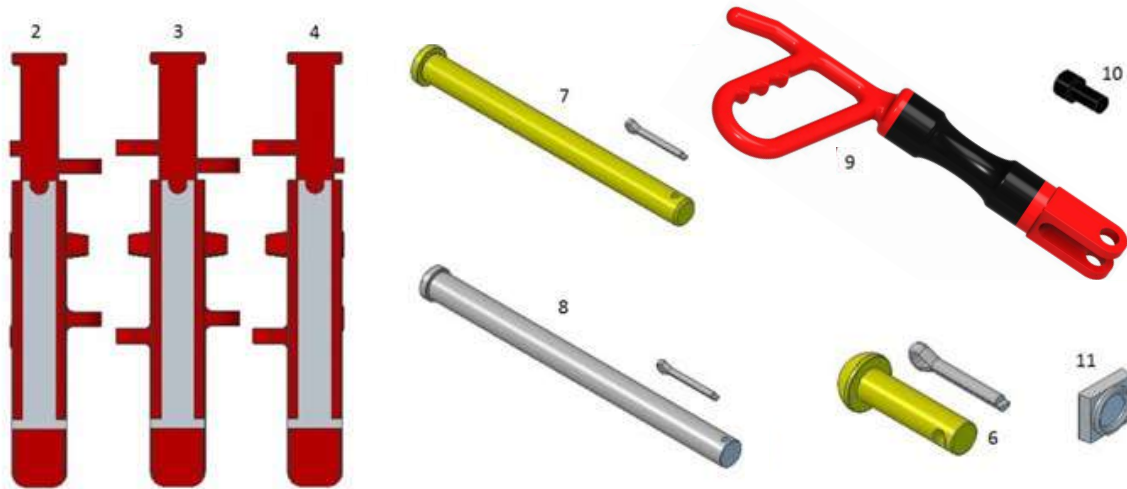
SLIP SAFETY FLEX HANDLES

PART NO.	DESCRIPTION	WEIGHT (LBS.)
102300	C-1 & WOOLLEY A EXTREME STYLE SAFETY FLEX HANDLE W/THUMB GUARD	5
102200-F	DU FRONT EXTREME SERVICE STYLE SAFETY FLEX HANDLE W/THUMB GUARD	5.41
102200-R	DU REAR EXTREME SERVICE STYLE SAFETY FLEX HANDLE W/THUMB GUARD	5.31
100350	UC EXTREME SERVICE SAFETY FLEX HANDLE W/ THUMB GAURD	5.47
102100	SD, DC, & CMSXL EXTREME SERVICE STYLE SAFETY FLEX HANDLE W/THUMB GUARD	5.52
102050	WOOLLEY B EXTREME SERVICE STYLE SAFETY FLEX HANDLE W/ THUMB GAURD	5.99



Extreme Service Safety Handle

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 “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 “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

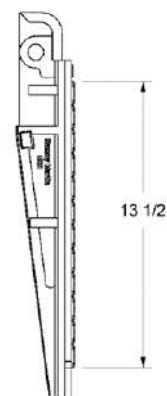
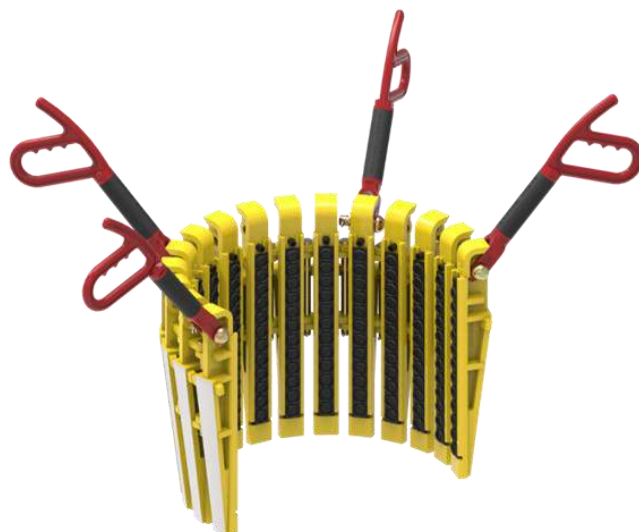
NOTE: ALL SLIPS 9 5/8" AND LARGER ARE FURNISHED WITH 4 OR MORE HANDLES.
ALL PARTS ARE INTERCHANGEABLE WITH CORRESPONDING DESIGN TYPE "CMSXL" CASING SLIPS.

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

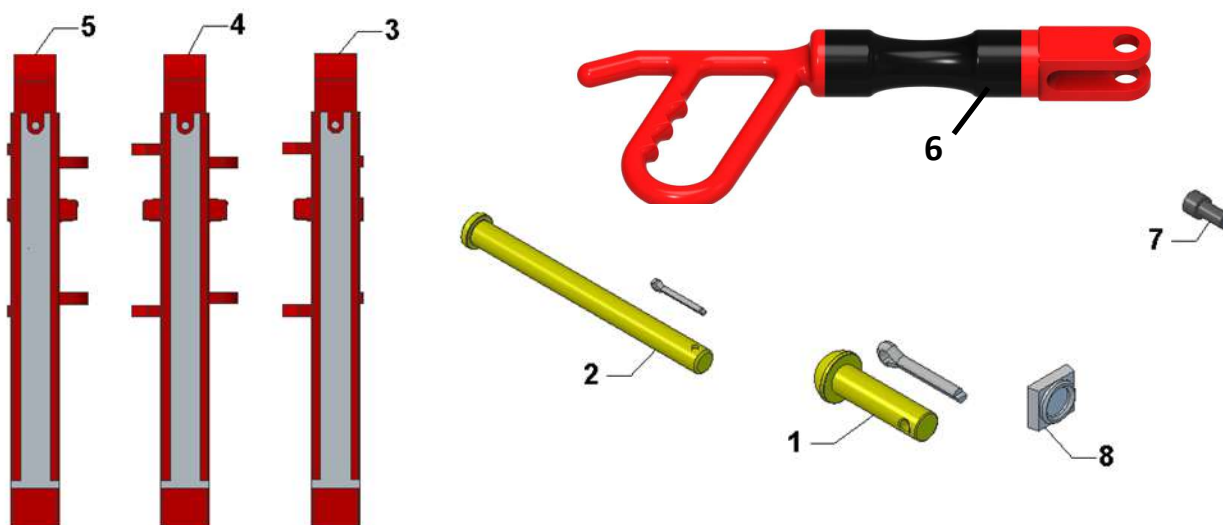
The KET “CMSXL” and “CMS-3” Casing Slips have a multi-segment design which gives a full wrap-around to help prevent damage to casing. By adding or subtracting segments & inserts the slip can accommodate 9 5/8” - 30” O.D. casing. The segments are made of alloy steel and are heat-treated for strength and 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.

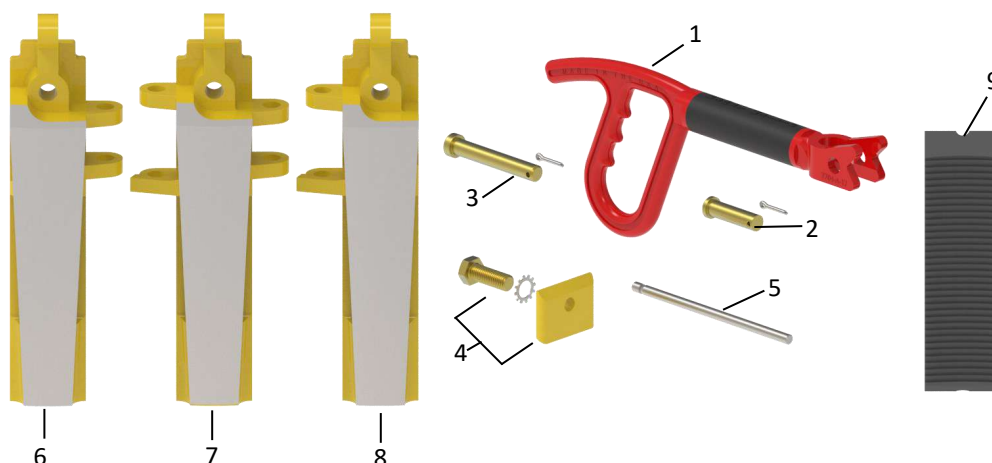


REPLACEMENT PARTS FOR RMET “UC-3” CASING SLIPS

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

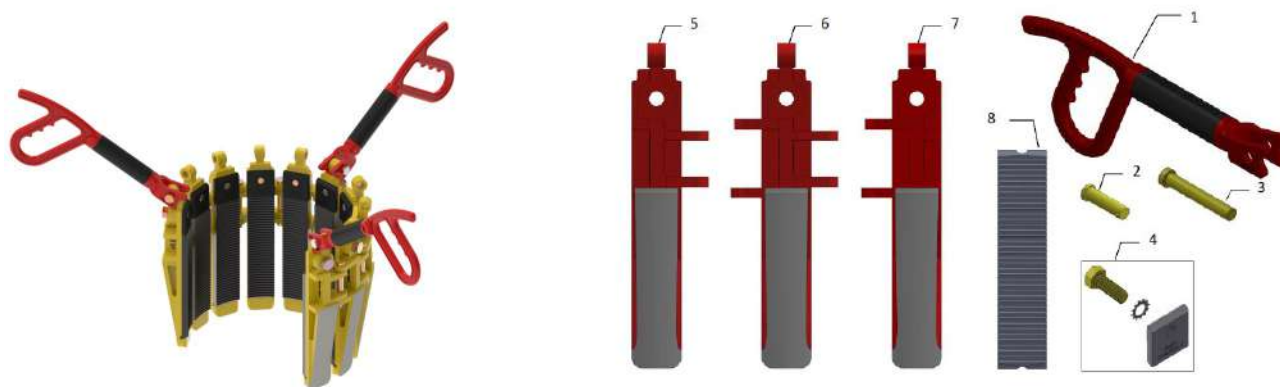
RMET#	ITEM#	DESCRIPTION	10 3/4" NO.	13 3/8" NO.	16" NO.	20" NO.	24" NO.	26" NO.	30" NO.	36" NO.	42" NO.	WT.
A7704-A-17-F	1	FLEX HANDLE	3	4	4	4	4	4	4	6	6	4.00
A7704-A-17	N/P	HANDLE	3	4	4	4	4	4	4	6	6	5.50
A7704-A-16	2	HANDLE PIN W/	3	4	4	4	4	4	4	6	6	.5
A7704-B-16	3	HINGE PIN W/	9	11	13	16	18	20	23	27	31	.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		

KET MAKE UP STANDS AND TONG DIE DRIVERS



The KET Safety Make-Up Stand is used to support stabilizers, subs, and other drilling tools during bottom hole make-up. It is located on the side of the rotary table, away from the slips and safety clamps.

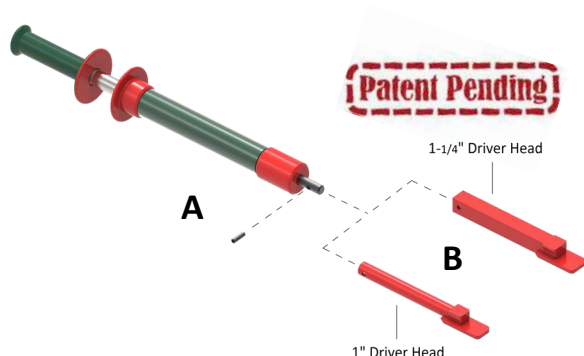
KET SAFETY MAKE-UP STAND

PART NO.	DESCRIPTION	PIN DIA.	RATING	HEIGHT	WT.
A26-900	KET SAFETY MAKE-UP STAND	2"	10,000 LBS	24"	140

KET TONG DIE DRIVERS

PART NO.	ITEM	DESCRIPTION	WT.
A26-425	A	KET HAMMERLESS TONG DIE DRIVER /COMPLETE W/ 1 1/4" DRIVER HEAD	12.25
A26-426	A	KET HAMMERLESS TONG DIE DRIVER /COMPLETE W/ 1" DRIVER HEAD	11.30
A26-400	B	1 1/4" DRIVER HEAD ONLY F/ HAMMERLESS TONG DIE DRIVER	2.41
A26-401	B	1" DRIVER HEAD ONLY F/ HAMMERLESS TONG DIE DRIVER	2.17
A26-300	C	KET 1 1/4" STRAIGHT TONG DIE DRIVER	7.25
A26-310	C	KET 1" STRAIGHT TONG DIE DRIVER	7.25
A26-350	D	KET 1 1/4" ANGLE TONG DIE DRIVER	9.25
A26-360	D	KET 1" ANGLE TONG DIE DRIVER	9.25

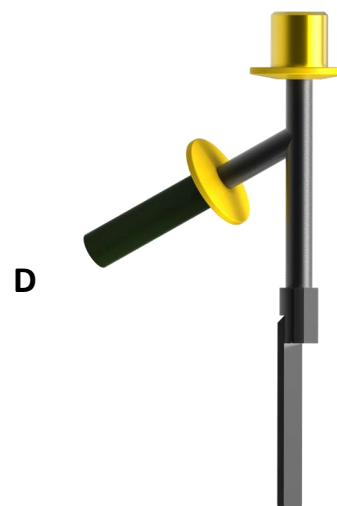
Hammerless Tong Die Driver



Straight Tong Die Driver



Angled Tong Die Driver





PRESSURE SYSTEM BUILDERS
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