

**kaseum<sup>®</sup>**

new thinking, new technology...

K-Set is a unique electro-mechanical downhole setting tool, capable of delivering up to 90,000 lbs of linear force which can be used to set, or un-set, plugs and packers in a wide range of tubing and casing sizes. K-Set is suitable for use on any conveyance method including slickline, digital slickline, electric line and coiled tubing.



## specification

Outside Diameter	1.688"	2.125"	2.720"	3.6"
Maximum Operating Pressure [5]	15,000 psi	15,000 psi	15,000 psi	15,000 psi
Maximum Operating Temperature	135°C [275°F] up to 6hrs, 225°C [437°F] up to 6hrs with external flask [4]			
Length	64"	48"	55"	48"
Stroke Length [1]	12.75"	10"	10"	10"
Nominal Force [Maximum]	15klbs [20klbs]	30klbs [40klbs]	40klbs [50klbs]	60klbs [90klbs]
Setting Speed [2]	0.5"/minute	0.5"/minute	0.5"/minute	0.5"/minute
Upper Connection [3]	1-1/16" - 10 UN S.R. (slickline) 1-3/16" - 12 UN GO (E-Line) 1-5/8" - 6 Reg Acme Box (Perforating)			
Lower Connection [3]	Outer: 1.250" - 16 UN Box Inner: 0.625" - 18 UN Box Equivalent to Baker #5	Outer: 2.000" - 10 Stub Acme Pin Inner: 11/16" - 16 UN Box Equivalent to Owen 2.125" MSST	Outer: 2.500" - 6 Reg Acme Pin Inner: 1.000" - 18 UN Box Equivalent to Baker #10	Outer: 3.500" - 6 Reg Acme Pin Inner: 2.000" - 6 Reg Acme Pin Equivalent to Baker #20

[1] Stroke length may be increased or decreased, additional 1" of stroke adds 2" to tool length

[2] Setting speed may be increased or decreased but will affect Maximum Force

[3] Different upper/lower connections may be specified

[4] Seal change + HT grease required for operation > 200°C

[5] 20,000 psi option available

K-Punch is a modular hole punching tool combinable with K-Set and can be configured to punch single or multiple, oriented holes in a single run. K-Punch can punch holes in a range of tubing and casing sizes from 2-7/8" to 9-5/8".



## specification

Tubing Size	2.875"	3.500"	4.500"	5.500"	7.000"	9.625"
Tubing Grade	J55 L80 P110	J55 L80 P110	J55 I80 P110	J55 L80 P110	J55 L80 P110	J55 L80 P110
Tubing Weight (lb/ft)	6.4 to 8.6	7.7 to 12.7	12.6	20	23	47 to 53
Punch Tool OD	2.160"	2.590" to 2.740"	3.600"	4.500"	5.750"	7.750"
Running / Setting Tool	2.125"	2.125"/2.720"	ALL	ALL	3.600"	3.600"
Punch Hole Size Range [1]	0.375" to 0.563"	0.375" to 0.715"	0.375" to 0.715"	0.375" to 0.715"	0.375" to 0.625"	0.375" to 0.625"
No of Holes (in single run) [2]	up to 8	up to 6	up to 5	up to 5	up to 3	up to 3

✓ Single punch and Multi-punch

✓ Connects directly to K-Set

✓ Oriented punching

[1] Punch hole size limited by tubing material

[2] Number of holes limited by punch hole size. For example 3.500" tubing is limited to 3 holes at 0.715" diameter

K-Fish is a simple adaption to K-Set and can be configured to retrieve stuck fish and manipulate downhole completion items. K-Fish contains an integral anchor and can provide push and pull capability in a range of tubing and casing sizes from 2-7/8" to 9-5/8".



- ✓ Pull and push functionality with integral anchor
- ✓ Retrieve stuck fish, move valves
- ✓ Connects directly to K-Set
- ✓ 2.125" K-Fish for 2-7/8", 3.5"
- ✓ 2.75" K-Fish for 4.5", 5.5"
- ✓ 3.6" K-Fish for >4.5"

