

## External-Cutter & Internal-Cutter

### External Cutter & Internal Cutter

External cutter & Internal cutter are special tools used to cut pipes in underground operation. PPGL supplies various high quality External cutter & Internal cutter.

### Hydraulic External Cutter

The hydraulic external cutter, comparing to mechanical external cutter, is easier in structure, more convenient and faster in cutting.



Hydraulic External Cutter

### Technical Specifications of Hydraulic External Cutter

Cutter Model	Cutter OD.(mm)	Cutter I.D. (mm)	Max. Catch O.D. (mm)	Pipe Dia. (mm)	Shear Pin Force (KN)	Min. Hole Dia. (mm)
HEC-S95	95	73	58.74/ 60.32 /61.91/63.50	33.34 /41.28 /49.21/52.39	9	111.13
HEC-S103	103	81	65.09/ 68.26/71.44 /73.03/77.79	33.34/41.28/ 49.21/52.39 /60.33	9	120.65
HEC-S113	113	92	77.79/ 79.38 /80.96 /85.73	49.21 /52.39 /60.33/73.03	11	130.18
HEC-S119	119	98	85.73/ 85.73/ 90.49/95.25	49.21/ 52.39 /60.33/73.03	11	136.53
HEC-S143	143	109.5	101.6/ 101.6/ 103.19/104.78/111.13	52.39 /60.33/ 73.03 /88.90/101.60	14	158.75
HEC-154	154	124	114.30/ 117.48/ 120.65/123.83	60.33/ 73.03/ 88.90/101.60	14	168.28
HEC-203	203	165	149.23/ 149.23/ 158.75/158.75	88.90/ 101.60/ 114.30/127	14	215
HEC-S210	210	171	149.23/ 149.23/ 158.75/158.75	88.90 /101.60/ 114.30/127	14	219

## Mechanical Internal Cutter

Mechanical Internal Cutter is one special tool to cut pipes from inside of it. The cutter can cut every position except of coupling. When cutting, the releasing spear can be connected on top of Mechanical internal cutter.



Mechanical Internal Cutter

### Technical Specifications of Mechanical Internal Cutter

Model	Cutter O.D. (mm)	Thread Connection	I.D. (mm)	Cutting Pipe O.D. mm (in)
IC-J60	46	CYG22 Sucker	12	60.3 (2-3/8) Tubing
IC-J73	57	Rod Thread	14	73 (2-7/8) Tubing
IC-J89	67	1.900TBG	14	88.9 (3-1/2) Tubing
IC-J102	83	2-3/8 TBG,	14	101.6 (4) Tubing
IC-J114	85	1.900TBG	16	114.3 (4-1/2) Casing
				114.3 (4-1/2) Tubing
				114.3 (4-1/2) Drill Pipe
				127.0 (5) Drill Pipe
IC-J127	102	2-3/8 TBG	16	127.0 (5) Casing
IC-J140	112	NC26	16	139.75 (5-1/2) Casing
IC-J168	127	NC31	20	168.3 (6-5/8) Casing
IC-J168	138	NC31	20	168.3 (6-5/8) Casing
IC-J178	145	NC38	40	177.8 (7) Casing
IC-J219	185	NC38	50	219.1 (8-5/8) Casing
IC-J245	210	4-1/2 REG	55	244.5 (9-5/8) Casing
IC-J298	260	5-1/2 FH	80	298.4 (11-3/4) Casing
IC-J340	295	6-5/8 REG	80	339.7 (13-3/8) Casing
IC-J406	370	6-5/8 REG	125	406.4 (16) Casing
IC-J508	475	6-5/8 REG	125	508 (20) Casing