



CM SERIES



A Division of **ABSOLUTE MACHINE TOOLS, INC.**

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REACH A NEW HIGH!

Discovering Beyond Imagination

Based on the continuous breakthrough concept and outstanding R&D capability, AccuteX Company always presents a new generation of EDM to meet the market requirements. AccuteX EDMs have won high reputation in domestic and overseas market.

Manufacturing of AccuteX EDM are conducted according to the company's quality assurance policy, and careful attention to every detail during manufacturing. All machines are rigorously inspected and tested to ensure its top performance, reliable quality & machining accuracy.

We always strive hard to pursue the higher EDM technology. Through the years of efforts in R&D, incorporating our extensive practical experience have earned us a public recognition and praise in global market. However, we are never satisfied with our achievement but keep moving ahead in R&D and manufacturing to create a higher level of performance and productivity in the EDM machining.

CM SERIES CNC E.D.M.

DS-430S CM



X:400MM

Y:300MM

Z:300MM • ATC OPTIONAL

POWERFUL & COMPLETE CNC FUNCTIONS:

- A.T.C. & C axis are available for fully automated & non-stop machining (option).
- 3 axes 6 directions machining, multi cavities machining, circle orbiting, square orbiting, internal / external spherical machining, 45 degrees corner machining, any angle orbiting, XY, XZ, YZ, X.Y.Z plane machining.
- 3 axes linear machining, 2 axes arc machining, helical machining electrode compensation.
- Contouring machining (GM code)
- Auto mechanical origin, internal / external center finder, auto edge finder & single axis center finder.
- English / Chinese selectable, inch / metric, flushing speed setting, auto self-diagnose.
- Intelligent arcing sensor and auto adjust the parameters to ensure best performance.
- Maximum 999 steps machining.
- Digital dual voltage (high/low voltage) currents being synchronously discharged to ensure faster metal removal rate, low electrode wear and uniform surface finish.

CM SERIES CNC E.D.M.

DS-500 CM

X: 500MM
Y: 400MM
Z: 350MM



DS-550 CM

X: 500MM
Y: 400MM
Z: 350MM



FEATURES INTRODUCED:



■ C AXIS Head of 25kgs(50lbs) load (option)



■ Conversational programming for easy learning and operation.
■ Clear concise and well organized display.



■ A.T.C: with electrode protection sensor, insufficient air pressure sensor.

CM SERIES CNC E.D.M.

DS-645 CM

X: 600MM
Y: 450MM
Z: 400MM



DS-1060 CM

X: 1000MM
Y: 600MM
Z: 500MM



FEATURES OF THE MACHINE:

- High sensitive & fast response servo system.
- Software, hardware and mechanical limits switch provide comprehensive safety guards on the machine.
- Table surface is heat treated to avoid scratching.
- Constructed of rugged cast iron, quench treated for constant accuracy.
- Digital readouts with 0.001mm resolution.



- Easy operation on X,Y,Z and C axis movement via remote controller.
- Humanistic handwheel (MGP) & remote control box for quick & simple mold alignment.
- Minimum movement unit: 0.001mm.

CM SERIES CNC E.D.M.

DS-1270 CM

X: 1200MM
Y: 700MM
Z: 500MM

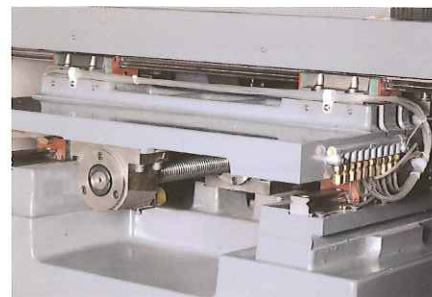


DS-1880 CM

X: 1800MM
Y: 800MM
Z: 600MM



Applied highest accurate roller type linear guides to ensure most rigidity, fast & smooth movement.



Pre-tension C5 class high accuracy double nuts ballscrews, 3 supports & taper type high precision bearings to ensure free backlash & smooth movement.



Grease lubricator ensure smooth movement & longer life.

CM SERIES CNC E.D.M.

DS-2210-2H CM

SM	DM
X: 1500MM	X: 775MM
Y: 1000MM	Y: 1000MM
Z: 600MM	Z: 600MM



DS-3310-2H CM

SM	DM
X: 2550MM	X: 1275MM
Y: 1000MM	Y: 1000MM
Z: 600MM	Z: 600MM



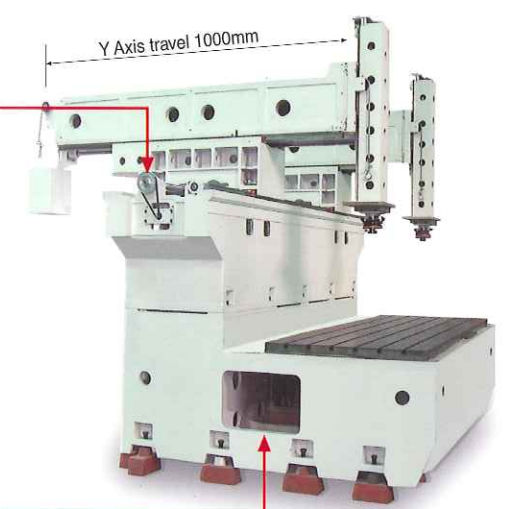
STRUCTURE DESIGN:



2 heads with twin high precision ground double-nut ballscrew design ensure extremely machining accuracy and excellent rigidity & stability.

Most advanced box structure with strengthened ribbed base ensure machining dynamic balance and heavy loading.

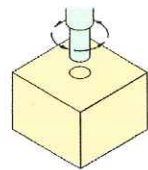
Y Axis travel reach 1000mm with highest accuracy.



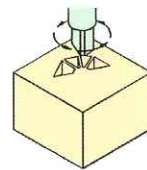
EXCELLENT FUNCTIONS & SIMPLE OPERATION:

- Dialogue operation for easy understanding.
- Graphic display.
- Built-in complete machining codes no#: S code & E code.
- Call out sub-programs for easy edition
- Auto zero set after edge finder completed.

C AXIS FUNCTION (OPTION):



RATION

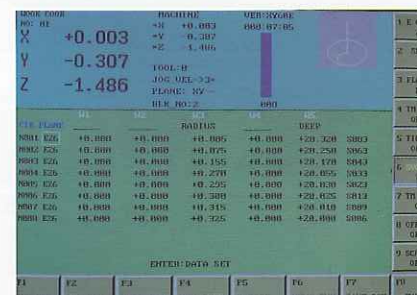
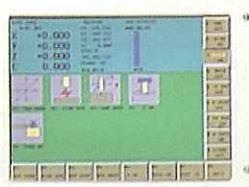


INDEXING

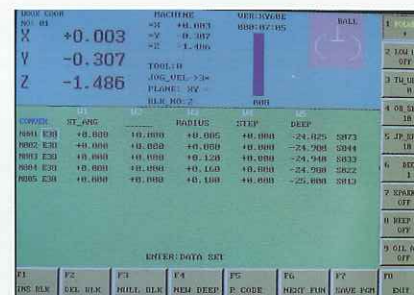


HELICAL

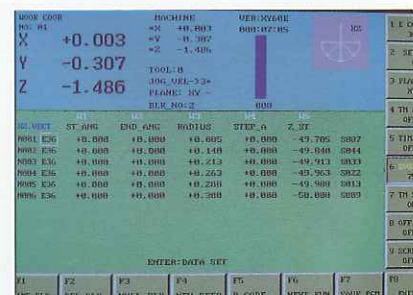
- Industrial purpose VGA color LCD monitor for free interference and longer life.



CIR.PLANE



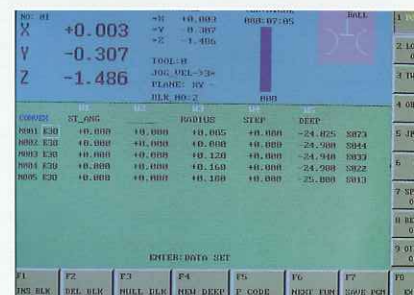
CONDEX



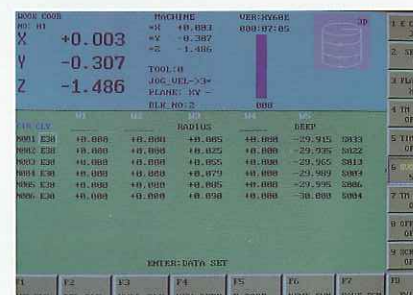
XZ.VECT



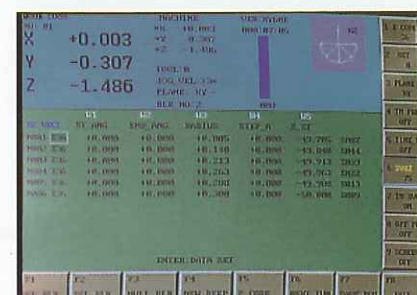
MACHINING PATH DISPLAY



CONVEX



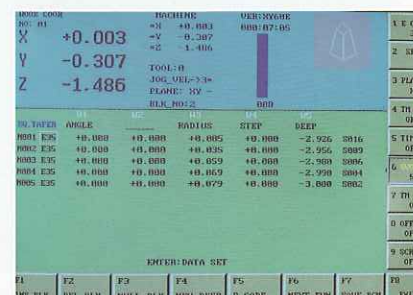
CIR.CLY



YZ.VECT

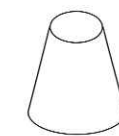


SQ.2D

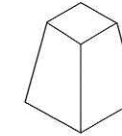


SQ.TAPER

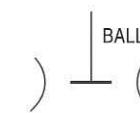
DESCRIPTION OF CNC FUNCTION:



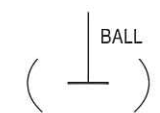
CIR.TAPER



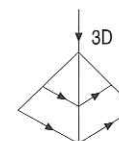
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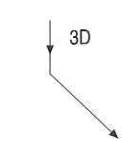
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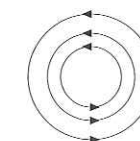
CONVEX



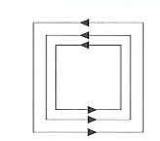
SQ.PYR



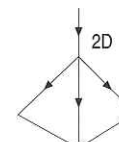
ANGLE



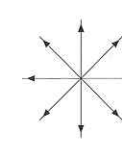
CIR.EXPAN



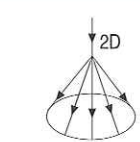
SQ.EXPAN



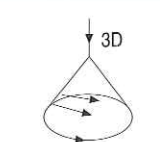
SQ.2D



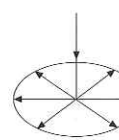
SQ.VECT



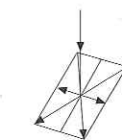
CIR.VECT



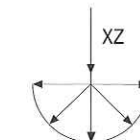
CIR..ORB



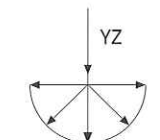
P_CIR VECT



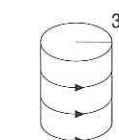
P_SQ VECT



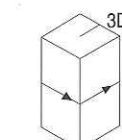
XZ.VECT



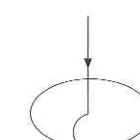
YZ.VECT



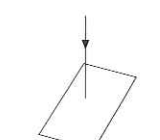
CIR.CLY



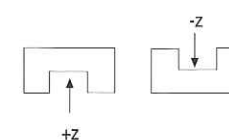
SQ.CLY



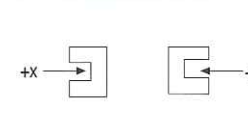
CIR.PLANE



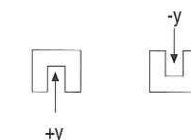
SQ.PLANE



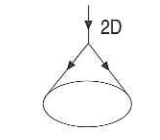
Z SIDE SPARK



X SIDE SPARK



Y SIDE SPARK



CIR.2D

CM SERIES CNC E.D.M.

SPECIFICATIONS :

ITEM	MODEL	UNIT	430S	430	550	500	645	860	1060	1270	1470
Work tank	(L)		970 (38)	970 (38)	1200 (47)	1260 (50)	1500 (59)	1700(67)	1,900 (75)	2,100 (83)	2,200(87)
	(W)	mm (inch)	550 (22)	550 (22)	690 (27)	780 (31)	940 (37)	1100(43)	1,100 (43)	1,250 (49)	1,320(52)
	(H)		350 (14)	350 (14)	425 (17)	520 (20)	520 (20)	615(24)	615 (24)	615 (24)	615(24)
Work table	(L)	mm (inch)	650 (26)	650 (26)	800 (32)	850 (34)	1000 (40)	1200(47)	1,245 (49)	1,350 (53)	1,700(67)
	(W)		350 (14)	350 (14)	450 (18)	400 (16)	600 (24)	700(28)	750 (30)	820 (32)	950(37)
Table travel (X)		mm (inch)	400 (16)	400 (16)	500 (20)	500 (20)	600 (24)	800(31)	1,000 (39)	1,200 (47)	1,400(55)
Table travel (Y)		mm (inch)	300 (12)	300 (12)	400 (16)	400 (16)	450 (18)	600(24)	600 (24)	700 (28)	700 (28)
Servo travel (Z)		mm (inch)	300 (12)	300 (12)	350(14)	350 (14)	400 (16)	500(20)	500 (20)	500 (20)	500 (20)
Distance between platen & table		mm (inch)	270 (11)	270 (11)	275 (11)	420 (17)	300 (12)	420(17)	420 (17)	510 (20)	550 (22)
			570 (22)	570 (22)	675 (26)	770 (30)	700 (28)	960(36)	920 (36)	1,010 (40)	1,050 (41)
Max.electrode weight		kgs	120	120	220	200	250	350	350	400	450
Max.workpiece weight		kgs	550	700	1350	2300	3000	4,000	4,500	5,000	6,000
Outside dimensions	(L)		1400 (55)	1200 (47)	1350 (53)	1700 (68)	1720 (68)	3,300(130)	3,400 (134)	3,600 (142)	2,600 (102)
	(W)	mm (inch)	1380 (54)	1410 (56)	1640 (65)	1560 (62)	1800 (71)	2,600(102)	2,600 (102)	3,100 (122)	3,500 (138)
	(H)		2250(89)	2250(89)	2350 (93)	2380 (95)	2610 (103)	3,200(126)	3,200 (126)	3,260 (128)	3,200 (126)
Outside dimensions (include tank & generator)	(L)		2370(94)	3425(135)	3886(153)	2670(106)	2770(168)	3200(126)	3200(126)	3700(146)	3970(157)
	(W)	mm (inch)	1800(71)	1800(71)	1800(71)	2500(98)	2900(114)	3330(131)	3330(131)	3580(141)	4000(157)
	(H)		2360(93)	2360(93)	2420(96)	2420(95)	2570(101)	3200(126)	3200(126)	3260(128)	3260(128)
Weight		Kgs	1200	1350	1950	3000	3900	5,000	5,500	6,500	8,000

ITEM	MODEL	UNIT	1510	1675	1880	2010	2210	3010	1510-2H	2210-2H	3010-2H
Work tank	(L)		2,290(90)	2,400 (94)	2,600 (108)	2,740 (109)	2,850(112)	4,100(161)	2,290(90)	3,100 (12)	4,100 (161)
	(W)	mm (inch)	1,700(67)	1,320 (52)	1,320 (52)	1,600 (63)	1,600(63)	1,700(67)	1,700(67)	1,700 (67)	1,700 (67)
	(H)		800(32)	650 (26)	700 (28)	700 (28)	740(29)	800(32)	800(32)	800 (32)	800 (32)
Work table	(L)	mm (inch)	1,580(62)	1,800 (71)	1,850 (73)	2,150 (85)	2,250(89)	3,100(122)	1,580(62)	2,250 (89)	3,100 (122)
	(W)		1,100(43)	950 (37)	1,000 (39)	1,100 (43)	1,100(43)	1100(43)	1,100(43)	1,100 (43)	1,100 (43)
Table travel (X)		mm (inch)	1,500(59)	1,600 (63)	1,800 (71)	2,000 (79)	2,200(87)	3,000(118)	860(34) 430(17)	1,550 (61) 775 (31)	2,550 (100) 1,275 (50)
Table travel (Y)		mm (inch)	1,000(39)	750 (30)	800 (31)	1,000 (40)	1,000(40)	1,000(39)	1,000 (39)	1,000 (39)	1,000 (39)
Servo travel (Z)		mm (inch)	600(24)	550 (22)	600 (24)	600 (24)	600(24)	600(24)	600 (24)	600 (24)	600 (24)
Distance between platen & table		mm (inch)	1,350(53)	550 (22)	450 (18)	660 (26)	600 (26)	1,350(53)	1,350 (53)	1,350 (53)	1,350 (53)
				1,050 (41)	1,050 (41)	1,260 (50)	1,260 (50)				
Max.electrode weight		kgs	500	450	500	500	500	500	500	500	500
Max.workpiece weight		kgs	11,000	6,500	7,000	9,500	9,500	16,000	11,000	10,000	16,000
Outside dimensions	(L)		3,720(146)	2,950(116)	3,150 (124)	5,413 (213)	5,463(215)	6,000(236)	3,720(146)	5,463 (216)	6,000 (236)
	(W)	mm (inch)	4,416(174)	3,550(140)	3,600 (142)	4,523 (180)	4,573(180)	4,600(181)	4,416(174)	4,573 (180)	4,600 (181)
	(H)		3,575(141)	3,200(126)	3,200 (126)	3,568 (140)	3,568(140)	3,620(143)	3,575(141)	3,568 (140)	3,620 (142)
Outside dimensions (include tank & generator)	(L)		3970(157)	3970(157)	3970(157)	4510(178)	4600(182)	5510(217)	4690(185)	4900(193)	6600(260)
	(W)	mm (inch)	4500(157)	4500(177)	4500(177)	4580(180)	4580(180)	4650(183)	4500(183)	4580(180)	4650(183)
	(H)		3630(143)	3630(143)	3630(143)	3700(146)	3700(146)	3800(150)	3630(143)	3740(147)	3800(150)
Weight		Kgs	13,500	8,500	9,000	12,500	13,500	18,000	16,200	15,000	21,000

CM SERIES CNC E.D.M.

DIELECTRIC UNIT :

TANK	430S	430	550	500	645	860	1060	1270	1470	1510/2H	1675	1880	2010	2210	2210-2H	3010-2H
Capacity L	380	350	550	850	1200	1573	1770	2063	2280	3441	2626	3015	3748	4162	5097	6552
Weight kg	Built-in	160	200	300	350	450	500	550	600	800	700	750	850	950	1050	1150
Outside dimensions L W (LxWxH) mm(inch)	Built-in	1010 (40)	1200 (47)	1520 (60)	1905 (75)	2200(87)	2300 (91)	2500 (98)	2600 (102)	2900(114)	2800 (110)	3000 (118)	3150 (124)	3400 (134)	3540 (139)	4450 (179)
		760 (30)	1000 (39)	1000 (39)	1100 (43)	1300(51)	1400 (55)	1500 (59)	1600 (63)	1720(68)	1400 (55)	1500 (59)	1750 (69)	1800 (71)	1800 (71)	1800 (71)
		410 (16)	460 (18)	560 (22)	560 (22)	580(23)	580 (23)	580 (23)	580 (23)	750(30)	700 (28)	700 (28)	710 (28)	710 (28)	830 (33)	830 (33)

POWER SUPPLY UNIT :

POWER SUPPLY UNIT	UNIT	60A	90A	120A	180A
Max. machining current	A	60	90	120	180
Max. power input	KVA	4.5	8	12	18
Max. removal rate	mm ³ /min	430	700	900	1,500
Min. electrode wear ratio	%	0.15	0.15	0.15	0.15
Best surface roughness	μm/ Ra	0.18	0.18	0.18	0.18
Outside dimensions (LxWxH)	mm (inch)	820x620x1700 (32x24x67)	820x620x1700 (32x24x67)	820x620x1700 (32x24x67)	820x620x1700 (32x24x67) x2
Weight	kgs	320	350	380	680

• All specifications and designs are subject to change without notice.

• Larger models are available as requests.

STANDARD ACCESSORIES

- X, Y, Z double nuts axes ballscrews.
- X, Y, Z axes linear guides.
- X, Y, Z-axes digital readout in 0.001mm.
- 15" LCD monitor.
- Auto fire extinguisher.
- Halogen work lamp.
- Clamping plate.
- Levelling pad.

- Flushing nozzle .
- Patented electrode holder.
- Paper filter.
- Drill chuck.
- Tool box.
- M.P.G.
- GM code
- Turbo device

OPTIONAL ACCESSORIES

- C axis.
- Auto tool changer.
- Dielectric cooler.
- Permanent magnetic table.
- Paper filter.
- EZ-spark for harden workpiece

CM SERIES CNC EDM: Rigid construction & precision!

- Addpting C5 class high accuracy double nuts ballscrews:

	430,430S,550,500	645	860,1060,1270	1470,1675,1880	1510/2H,2010,2210/2H,3010/2H
X(mm)	Ø32	Ø32	Ø40	Ø50	Ø50
Y(mm)	Ø32	Ø32	Ø32	Ø32	Ø40
Z(mm)	Ø25	Ø32	Ø32	Ø32	Ø32

CM SERIES CNC EDM: Adopting Ultra Wide Linear Guides:

	430,430S	550	500	645	860,1060,1270	1470,1675,1880,2010,2210/2H,3010/2H,1510/2H
X-axis width	30mm (ball type)	30mm (ball type)	30mm (roller type), stretched block.	35mm (roller type) , stretched block.	35mm (roller type) , stretched block.	45mm (roller type) , stretched block.
Y-axis width	30mm (ball type)	30mm (roller type), stretched block.	30mm (roller type), stretched block.	35mm (roller type), stretched block.	35mm (roller type), stretched block.	45mm (roller type), stretched block.
Z-axis width	25mm (roller type)	25mm (ball type)	25mm (roller type)	30mm (roller type)	30mm (roller type) , stretched block.	30mm (roller type) , stretched block.