

NEW A&Z “DCP” HORIZONTAL COLD & HOT CHAMBER DIE CAST MACHINE

SPECIFICATIONS

60 Ton – 450

Made In The USA!

Model Hot Chamber	DCP 60-Z1	DCP125-Z1	DCP150-Z1	DCP250-Z1	DCP400-Z1	DCP450-Z1	DCP600-Z1-29
Model Cold Chamber	DCP60-A1	DCP125-A1	DCP150-A1	DCP250-A1	DCP400-A1	DCP450-A1	DCP600-A1-29
Distance Betw. tie bars	12" x 12"	15" x 15"	17" x 17"	19" x 19"	24 ½" x 24 1/2	27" x 27"	29" x 29"
Tie bar centers	14.5" x 14.5"	18" x 18"	20.25" x 20.25"	23" x 23"	29 ½" x 29 ½"	32 ½" X 32 ½"	35" x 35"
Tie bar Dia.	2.5"	3"	3.5"	4"	5"	5 ½"	6"
Front platen dimensions	19" x 19"	5" x 26" x 26"	5" x 27" x 27"	5 ¾"x33" x 33"	8"x40"x46"	8 ¾" x 43" x 49"	10" x 51" x 58"
Moving platen dimensions	19" x 19"	5" x 26" x 26"	5" x 27" x 27"	5 ¾"x33"x33"	8"x40"x40"	8 ¾" x 43" x 43"	9 ½" x 51" x 51"
Rear platen dimensions	19" x 19"	5" x 26" x 26"	5" x 27" x 27"	5 ¾"x 33" x 33"	8"x40"x40"	8 ¾" x 43" x 43"	10" x 51" x 51"
Die stroke	7.5"	8"	8"	10"	13"	14"	17"
Die thickness	6"-16" max	8" Min. – 19" Max	8" Min – 19" max	8" min – 22" Max.	10" min – 26" max	12" min –29 1/2" Max.	14"-min-36" max
Die open & close speed (sec)	0.7/0.8	1.8/1. sec	1.8/1.0 sec	1.5	1.5/1.8	1.8/1.8	2.0/1.5
Horsepower	15 HP	20 HP	20 HP	30 HP	50 HP	50 HP	60 HP
Machine Cold chamber Size (LXWXH)	13' x5'3x" 7'7"	12'6" x 5' x 7' 6"	14' x 5'10" x x 8'9"	18'x6'10x8'0	18'6"x72"x9'	20'x7'x9'9"	26'7'6"x9'9"
Machine Hot Chamber Size (LXWXH)	12'6" x 5'3" x 7'7"	10'6"x5'x7'6"	13'11"x8'6"x6'		15'x72"x9'		
Dry Weight cold chamber #	15,200	19,200	19,500	28,500	40,000	43,000	60'000
Dry Weight hot chamber #	14,000	18,600	18,800	26,000	35,000	N/A	
Dry cycles per hr. cold chamber	500	420	420	400	375	375	270
Dry cycles per hr. hot chamber	900	800	800	750	700	700	700

Shot end specifications – COLD CHAMBER SERIES A1

Shot cylinder Dia.	2.5"	3"	3.5"	4"	4.5"	4.5"	5"
Shot Cylinder Stroke	8"	11"	1 2"	12"-16"	16 –20 adj.	16"-20"	18"-24"
Shot position Std.	center & 2" below	0- 3 ½"	Center & 3" below	0 – 4"	0-6"	0 – 6"	0-6"
Shot speed Dry std. (IPS)	150 IPS	150 IPS	200 IPS	200 IPS	250IPS	260 IPS	260 IPS
Shot force Initial 1500 PSI	3.6	5 tons	7.2 tons	9 tons	11 tons	11 tons	14.7 ton
Shot force Final 4500 PSI	NA	NA	NA	NA	35 tons	35 tons	49 tons
Multiplier	Optional	Optional	Optional	Optional	4 to 1	4 To 1	4 to 1
Plunger tip diameter	1.5"-2"	1.50 to 2.25	1.75"-2.25"	1.75 to 2.5	2 to 2 ¾"	2 to 2 ¾"	2 to 2 ¾"

Shot end specifications – HOT CHAMBER SERIES Z1

Shot cylinder Dia.	3"	3"	3 ½"	4 ½"	5"	5"	
Shot Cylinder Stroke	5.75"	6"	6"	8"	8"	8"	
Shot position Std.	On center	On center	On center	On center	On center	On center	
Shot speed Dry std.	150 IPS	150 IPS	200 IPS	200 IPS	200 IPS	260 IPS	
Plunger tip Dia.	1.75"-2.5"	1.75 to 2.50	2"- Min 2.5" Max	2.5 to 3.5	2.5 to 3.7	2.5 to 3.7	

Ejection Specifications:

Type ejection	Fixed bumper	Fixed bumper	Fixed bumper	Fixed bumper	Fixed bumper	Fixed bumper	Fixed bumper
Ejection Force Tons	Optional 5 tons	8	8	14	14	14	20"
Ejection Stroke	Optional 2"	2"	2"	4"	4"	4"	6"

Specifications subject to revisions

Optional faster speeds upon

request

Form # 210629

9-30-21

NEW A&Z “DCP” HORIZONTAL COLD & HOT CHAMBER DIE CAST MACHINE

600 Ton – 1200

Made In The USA!

Quality by American tradesmen

Model Hot Chamber	DCP600-Z1	DCP650-Z1					
Model cold chamber	DCP600-A1	DCP650-A1	DCP800-A1	DCP850-A1	DCP900-A1	DCP1000-A1	DCP1200-A1
Distance Betw. tie bars	30" x 30"	32 ½" x 32 ½"	36 ½" x 36 ½"	38" x 38"	40" x 40"	43 ½" x 43 ½"	44 ½" x 44 ½"
Tie bar centers	36" x 36"	39" x 39"	43 ½" x 43 ½"	45 ½" x 45 ½"	47.5" x 47.5"	52" x 52"	54" x 54"
Tie bar Dia.	6"	6.5"	7"	7.5"	7.5"	8.5"	9.5"
Front platen dimensions	11 ¾" x 51" x 58"	12" x 54" x 60 ½"	12 ¾" x 60" x 67"	13" x 62" x 69"	14" x 64" x 71"	16" x 69" x 74"	17 ½" x 71" x 78"
Moving platen dimensions	11 ¾" x 51" x 51"	12" x 54" x 54"	12 ¾" x 60" x 60"	12 ½" x 62" x 62"	14" x 64" x 64"	16" x 69" x 69"	16 ½" x 71" x 71"
Rear platen dimensions	11 ¾" x 51" x 51"	12" x 54" x 54"	12 ¾" x 60" x 60"	13" x 62" x 62"	14" x 64" x 64"	16" x 69" x 69"	17 ½" x 71" x 71"
Die stroke	17"	20"	22"	22"	26"	27"	27"
Die thickness	12" min – 36" max	12" min-36"max	16" min– 38 Max	18" min – 38" max	18" min – 38" max	24"min-44" Max	24" Min-46" Max
Die open & close speed (sec)	2.0/1.5	2.3/2.0	2.5/2.3	3.00/2.5	3.00/2.5	3.0/2.5	3.4/3.5
Horsepower	60 HP	60 HP	75 HP	75 HP	100 HP	125 HP	125 HP
Machine Cold chamber Size Hot Chamber (LXWXH)	21'8"x7'6"x11' 16'5"x7'6"x11'	25'9"x8'10"2" 20'6" x 8' x 10'	29'6"x8'6"x10'6"	29'6"x8'8"x10'8"	30'5"x8'x10'6"	32'x8'4"x11'	33'6"x8'8"x12'
Dry Weight cold chamber #	72,000	74,500	92,000	94,000	106,000	134,000	150,000
Dry Weight hot chamber #	68,000						
Dry cycles per hr. cold chamber	270	260	240	240	235	235	200

Shot end Specifications – COLD CHAMBER SERIES A1

Shot cylinder Dia.	5"-5.5"	5"-5.5"	5.5	5.5"	6"	6-7"	7"
Shot Cylinder Stroke	18"-24"	18"-24"	24" –30" adj.	24"-30" adj.	24"-30" adj.	30" – 36" adj.	30" – 36" Adj.
Shot position Std.	0-6	0-6"	0-9"	0-9"	0-9"	0-12" below	0-12" Below
Shot speed Dry std. (IPS)	250/235 IPS	250/ 235	280	280	280/400 Opt.	280/400 Opt.	300
Shot force Initial 1500 PSI tons)	14\17	14/17	17	17	21	21/28	28
Shot force Final 4500 PSI	44\53	44/53	53	53	63	63/86	86
Multiplier	4 to 1	2 to 1	4 to 1	4 to 1	4 to 1	4 to 1	4 to 1
Plunger tip diameter	2 to 5"	2 to 5"	2 1/4" to 3 ½"	2 ¼" - 3 ½"	2 ½"-3 ½"	2 ¾"-4"	3"-4"

Shot end specifications – HOT CHAMBER SERIES Z1

Shot cylinder Dia.	5 ½"-6"	5"					
Shot Cylinder Stroke	9"	11"					
Shot position Std.	On center	On center					
Shot speed Dry std.	200 IPS	200 IPS					
Plunger tip Dia.	3.0 to 4.25	3"-4"					

Ejection Specifications:

Type ejection	Hydraulic bumper	Hydraulic bumper	Hydraulic bumper	Hydraulic bumper	Hydraulic bumper	Hyd. Bumper	Hyd. bumper
Ejection Force Tons	20	21	20	20	20	20	20
Ejection Stroke	6"	6"	6	6	6	6	6

NEW A&Z “DCP” HORIZONTAL COLD & HOT CHAMBER DIE CAST MACHINE

1400 -4000 Ton

Made In The USA!

Quality by American tradesmen

Model No. cold chamber	DCP1400-A1	DCP1600-A1	DCP1800A1	DCP2000-A1	DCP2500-A1	DCP-3000-A1	DCP-3500-A1	DCP-4000-A1
Distance Betw. tie bars	48" x 48"	51" x 51"	54" x 54"	56" x 56"	60" x 60"	67" x 67"	69" x 69"	75" x 75"
Tie bar centers	58" x 58"	62" x 62"	65" x 65"	68" x 68"	74" x 74"	81" x 81"	84" x 84"	90 1/2" x 90 1/2"
Tie bar Dia.	10"	11"	11"	12"	13"	14"	15"	15 1/2"
Front platen dimensions	18" x 80" x 80"	19 3/4" x 84" x 84"	21" x 86" x 86"	21" x 88" x 88"	23 1/2" x 101" x 101"	27 3/4" x 109" x 109"	29" x 112" x 112"	32" x 122" x 122"
Moving platen dimensions	18" x 80" x 80"	18 3/4" x 84" x 84"	20" x 86" x 86"	20" x 88" x 88"	23 1/2" x 101" x 101"	24" x 109" x 109"	25" x 112" x 112"	28" x 122" x 122"
Rear Platen dimensions	18" x 80" x 80"	19 3/4" x 84" x 84"	20" x 86" x 86"	21" x 88" x 88"	23 1/2" x 101" x 101"	27 3/4" x 109" x 109"	29" x 112" x 112"	32" x 122" x 122"
Die stroke	28"	32"	36"	41"	42"	51"	52"	56"
Die thickness	24" Min – 54" Max.	38" Min. – 58" Max.	40" Min – 64" Max	40" Min-65" Max	44" Min- 75" Max	50" Min-80" Max	40" Min – 80" Max	40" Min- 80" Max
Die open & close speed (sec)	3.4/3.5	3.4/3.5	4.2/4.2	4.3/4.3	4.5/4.5	4.5/4.5	6.0/7.0	6.0/7.0
Horsepower	125 & 30 HP	125 & 30 HP	125 HP & 50 HP	125 & 50 HP	125 & 75 HP	200 HP & 75 HP	200 HP & 75 HP	150HP/100HP/75HP
Machine size LXWXH Cold chamber Hot chamber	34'x10'11"x11'	42'x11'x13'	41'6" x 11' x 13'2"	44'11"x 10'1"x13'3"	48'x13'6"x14'	48'6"x14'x 14'6"	51'x 14'3"x 14'8"	56'4" x 15'1" x 15'
Dry Weight cold chamber lbs.	205,000	275,000	280,000	351,000	410,000	475,000	565,000.00	675,000
Dry Cycles per hour	175	100	100	90	90	60	60	60

Shot End Specifications: – COLD CHAMBER- SERIES A1

Shot cylinder Dia.	7"	8"	8"	8-9"	9"	10"	11"-12"	11"-12"
Shot Cylinder Stroke	34"-40" adj.	38-44" adj.	34"-40"	38-44 adj.	38"-44" adj.	47"-53" adj.	48"-56"	54"-60"
Shot position Std.	Center & 12"	Center & 14" below	Center & 15" below	Center & 15" below	Center & 15" below	To order	To order	To order
Shot speed Dry std. (IPS)	300 IPS	300 IPS	300 IPS	300 IPS	300 IPS	300 IPS	250 IPS	250 IPS
Shot force Initial @ 1500 PSI (tons)	28	37	37.6	37.6/47	47	58	71.2/84.7	71.2/84.7
Max. Shot force final @ 5000 PSI (tons)	86	113	113	113/143	143	176	237/282	237/282
Multiplier Ratio	2 to 1	2 to 1	2 to 1	2 to 1	2 to 1	2 to1	2 to1	2 to 1
Plunger tip Dia.	3"-4"	3 1/2"-5 1/2"	3 1/2"- 5 1/2"	4"-6"	4"-6"	5"-6"	5 7/8" – 8 1/4"	5 7/8" – 8 1/4"

Ejection Specifications

Type Ejection	Hyd. Bumper	Hyd. Bumper	Hyd. Bumper	Hyd. Bumper	Hyd. Bumper	Hyd. Bumper	Hyd. bumper	Hyd. Bumper
Ejection Force	31	52	54	54	54	93	100	140
Ejection Stroke	6	10	10	10	10	10	10	10