

D&A HEAVY INDUSTRIES CO.,LTD SILENCED BREAKERS (8V and above)



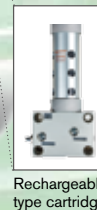
Comprehensive range of breakers for perfect match and harmony with your carrier and excellent job application.

Hydraulic Breakers for Backhoe Loaders, Excavators, Skid-Steer Loaders and Mini-Excavators.

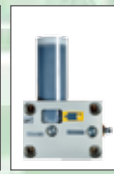
HIGH-PERFORMANCE BREAKERS OFFER

AUTO-LUBRICATION PUMP

- Highly efficient design
- More power and impact energy than competitors
- Low operating costs
- Minimum moving parts reducing machine down time
- Wide application range



Rechargeable type cartridge



Disposable type cartridge



Hydraulic operating cartridge disposable



Hydraulic Breaker

MODEL		D&A 6V	D&A 8V	D&A 17V	D&A 40V	D&A 60V	D&A 70V	D&A 80V	D&A 100DP	D&A 130DP	D&A 150DP	D&A 180DP
Operating Weight	kg	55	120	187	260	330	495	545	800	900	1,150	1,450
	lbs	121	265	412	573	728	1,091	1,202	1,764	1,984	2,535	3,197
Required Oil Flow	ℓ/min	18~25	15~35	23~70	35~70	40~110	45~100	50~100	75~120	80~140	100~150	100~155
	g/min	4.76~6.60	3.96~9.25	6.08~18.49	9.25~18.49	10.57~29.06	11.89~26.42	13.21~26.42	19.81~31.70	21.13~36.98	26.42~39.63	26.42~40.95
Operating Pressure	kg/cm ²	60~130	90~120	90~120	110~165	120~165	140~170	140~170	140~180	140~180	160~190	160~190
	psi	853~1,849	1,280~1,707	1,280~1,707	1,565~2,347	1,707~2,347	1,991~2,418	1,991~2,418	1,991~2,560	1,991~2,560	2,276~2,702	2,276~2,702
Number of Blow (Long stroke)	b.p.m	800~1,200	550~1,000	600~1,500	550~1,300	380~1,100	400~800	350~700	350~600	350~600	320~550	320~500
Number of Blow (Short stroke)	b.p.m	—	—	—	—	—	600~1,100	490~1,000	600~900	600~900	400~700	400~650
Relief Valve Setting Pressure	kg/cm ²	175	175	175	175	175	175	175	210	210	210	210
	psi	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,987	2,987	2,987	2,987
Tool Diameter	mm	40	45	57	70	75	80	90	95	105	115	125
	inch	1.57	1.77	2.24	2.76	2.95	3.15	3.54	3.74	4.13	4.53	4.92
Suitable Excavator	ton	0.5~2.0	0.8~2.5	1.5~4.0	3.0~6.5	4.5~8.0	4.5~8.0	6.0~10.0	8.0~12.5	10~15	12~18	16~22
	lbs	1,102~4,409	1,764~5,512	3,307~8,818	6,614~14,330	9,921~17,637	9,921~17,637	13,228~22,046	17,637~27,558	22,046~33,069	26,455~39,683	35,274~48,502
Accumulator Pressure	kg/cm ²	—	—	—	40	40	40	40	55	55	55	55
	psi	—	—	—	569	569	569	569	782	782	782	782

* Above specifications are subject to change without notice for quality improvement.
* Above specifications are provided only for references connected with carrier machines.
* Operating weight includes standard bracket pins, one chisel and two hydraulic hoses.

MODEL		D&A 200DP	D&A 220DP	D&A 250DP	D&A 300DP	D&A 360DP	D&A 450DP	D&A 550DP	D&A 650DP	D&A 700DP	D&A 750DP	D&A 1200DP
Operating Weight	kg	1,580	1,800	2,000	2,400	2,700	3,300	3,800	4,500	5,700	7,000	10,000
	lbs	3,483	3,968	4,409	5,291	5,952	7,275	8,378	9,921	12,566	15,432	22,046
Required Oil Flow	ℓ/min	120~170	120~190	150~210	180~240	200~260	220~280	240~320	260~360	310~390	350~420	450~530
	g/min	31.70~44.91	31.70~50.19	39.63~55.48	47.55~63.40	52.83~68.68	58.12~73.97	63.40~84.54	68.68~95.10	81.89~103.03	92.46~110.95	118.88~140.01
Operating Pressure	kg/cm ²	160~190	160~190	160~190	160~190	160~190	160~190	160~190	150~190	170~210	170~210	170~210
	psi	2,276~2,702	2,276~2,702	2,276~2,702	2,276~2,702	2,276~2,702	2,276~2,702	2,276~2,702	2,134~2,702	2,418~2,987	2,418~2,987	2,418~2,987
Number of Blow (Long stroke)	b.p.m	320~480	340~450	270~400	250~380	230~400	230~345	230~330	270~380	280~355	280~350	250~320
Number of Blow (Short stroke)	b.p.m	400~600	420~550	330~500	300~450	270~470	270~410	270~550	380~530	380~480	320~430	290~380
Relief Valve Setting Pressure	kg/cm ²	210	210	210	210	230	230	210	210	250	250	250
	psi	2,987	2,987	2,987	2,987	3,271	3,271	2,987	2,987	3,556	3,556	3,556
Tool Diameter	mm	135	135	145	150	155	165	175	180	200	205	240
	inch	5.31	5.31	5.71	5.91	6.10	6.50	6.89	7.09	7.87	8.07	9.45
Suitable Excavator	ton	18~24	20~26	22~30	24~36	28~42	34~50	40~60	45~80	58~100	60~100	85~140
	lbs	39,683~52,911	44,092~57,320	48,502~66,139	52,911~79,366	61,729~92,594	74,957~110,231	88,185~132,277	99,208~176,370	127,868~220,462	132,277~220,462	187,393~308,647
Accumulator Pressure	kg/cm ²	55	55	55	55	55	55	55	55~60	55~60	55~60	55~60
	psi	782	782	782	782	782	782	782	782~853	782~853	782~853	782~853

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* Operating weight includes standard bracket pins, one chisel and two hydraulic hoses.

For Backhoe Loaders

MODEL		D&A 40V	D&A 60V	D&A 70V	D&A 80V
Operating Weight	kg	260	330	480	540
	lbs	573	728	1,058	1,190
Required Oil Flow	ℓ/min	35~70	40~110	45~100	50~110
	g/min	9.25~18.49	10.57~29.06	11.89~26.42	13.21~29.06
Operating Pressure	kg/cm ²	110~165	120~165	140~170	140~170
	psi	1,565~2,347	1,707~2,347	1,991~2,418	1,991~2,418
Number of Blow (Long stroke)	b.p.m	550~1,300	380~1,100	400~800	350~700
Number of Blow (Short stroke)	b.p.m	—	—	600~1,100	490~1,000
Relief Valve Setting Pressure	kg/cm ²	175	175	175	175
	psi	2,489	2,489	2,489	2,489
Tool Diameter	mm	70	75	80	90
	inch	2.76	2.95	3.15	3.54
Suitable Excavator	ton	3.0~6.5	4.5~8.0	4.5~8.0	6.0~10.0
	lbs	6,614~14,330	9,921~17,637	9,921~17,637	13,228~22,046
Accumulator Pressure	kg/cm ²	40	40	40	40
	psi	569	569	569	569

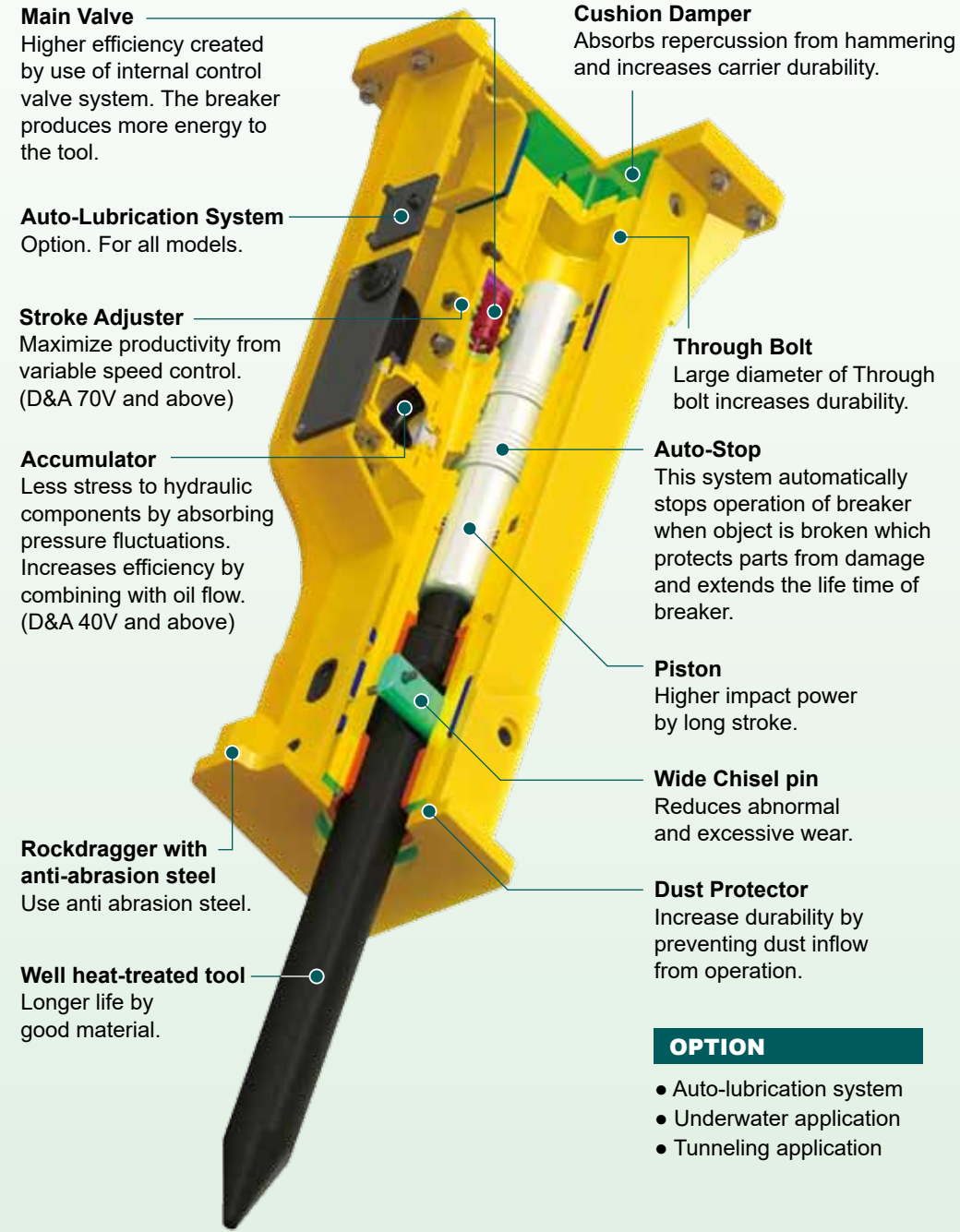
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For Skid Steer Loaders

MODEL		D&A 17S	D&A 40S	D&A 60S	D&A 70S
Operating Weight	kg	254	336	480	526
	lbs	560	741	1,058	1,160
Required Oil Flow	ℓ/min	23~70	35~70	50~125	70~140
	g/min	6.08~18.49	9.25~18.49	13.21~33.02	18.49~36.98
Operating Pressure	kg/cm ²	100~190	110~190	120~190	140~190
	psi	1,422~2,702	1,565~2,702	1,707~2,702	1,991~2,702
Number of Blow (Long stroke)	b.p.m	600~1,500	380~1,000	380~1,100	400~800
Number of Blow (Short stroke)	b.p.m	—	—	—	600~1,100
2nd Relief Setting Pressure**	kg/cm ²	230	230	230	230
	psi	3,271	3,271	3,271	3,271
Tool Diameter	mm	57	70	75	80
	inch	2.24	2.76	2.95	3.15
Suitable Excavator	ton	1.5~4.0	3.0~6.5	4.5~8.0	4.5~8.0
	lbs	3,307~8,818	6,614~14,330	9,921~17,637	9,921~17,637

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** Head Cap gas pressure 10~12 bar.

NEW D&A HYDRAULIC BREAKER ENHANCES POWER, DURABILITY AND LEVEL OF CUSTOMER SATISFACTION



- OPTION**
- Auto-lubrication system
 - Underwater application
 - Tunneling application

Available Tools

	DESCRIPTION	APPLICATION
	FLAT-END POINT	QUARRIES
	WEDGE POINT V	ASPHALT CUTTING TRENCHES & SLOPES
	WEDGE POINT H	ASPHALT CUTTING TRENCHES & SLOPES
	MOIL POINT	ROCKS
	UNIVERSAL POINT	CONCRETE



Shear



Shear(DFS 03)



Fixed Compactor



Rotating Compactor



Rotating Crusher



Fixed Crusher



Crusher Jaw



Shear Jaw



Pulverizer Jaw

SHEAR

MODEL		DFS 03	DFS 30	DFS 40
Reinforcing Bar	mm	25 x 3	30 x 15	30 x 20
Channel	mm	100 x 50 x 5	380 x 100 x 16	425 x 100 x 10
Angle	mm	80 x 80 x 6	150 x 150 x 12	300 x 300 x 12
H-Beam	mm		200 x 200 x 8 x 12	300 x 300 x 10 x 15
Maximum	mm		300 x 150	500 x 200
Operating Weight	kg (lbs)	325 (717)	2,600 (5,732)	3,400 (7,496)
Operating Pressure	kg/cm ² (psi)	210 (2,987)	320 (4,551)	320 (4,551)
Max. Opening Jaw	mm (inch)	400 (15.75)	570 (22.44)	600 (23.62)
Cutting Force	ton	31	160	336
Cutter Length	mm (inch)	100 (3.94)	600 (23.62)	600 (23.62)
Suitable Excavator	ton	3-8	26-36	36-45
Swing System		Mechanical	Hydraulic	Hydraulic
HYD. Max. Set Pressure	kg/cm ²	—	160	160
Swivel Required Oil Flow	lpm	—	15-60	15-60
Motor Speed of Rotation	rpm	—	10-18	10-18

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COMPACTOR

MODEL		Fixed			Rotating	
		D&A 7C	D&A 20C	D&A 30C	D&A 20CR	D&A 30CR
Impulse Force	ton (ft.lb)	Max 3.7 (8.16)	Max 7.3 (16.09)	Max 11 (24.25)	Max 7.3 (16.09)	Max 11 (24.25)
Vibration Per Minute	vpm	Max 2,200	Max 2,200	Max 2,200	Max 2,200	Max 2,200
Required Oil Flow	lpm	68	114	178	114	178
Operating Pressure	kg/cm ² (psi)	Max 138 (1,963)	Max 207 (2,944)	Max 150 (2,134)	Max 207 (2,944)	Max 150 (2,134)
Operating Weight	kg (lbs)	390 (860)	712 (1,570)	904 (1,993)	1,150 (2,535)	1,270 (2,800)
Plate Size	mm	620 x 700	800 x 900	850 x 1,150	800 x 900	850 x 1,150
Suitable Excavator	ton	4-12	12-20 (24)	14-30	12-20 (24)	14-30

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CRUSHER

MODEL		Fixed			Rotating		
		FC 500	FC 700	FC 1000	FR 500R	FR 700R	FR 1000R
Operating Weight	kg (lbs)	1,343 (2,961)	1,880 (4,145)	2,334 (5,146)	1,600 (3,527)	1,900 (4,189)	2,800 (6,173)
Operating Pressure	kg/cm ² (psi)	320 (4,551)	320 (4,551)	320 (4,551)	320 (4,551)	320 (4,551)	320 (4,551)
Max. Opening Width	mm (inch)	720 (28.35)	830 (32.68)	950 (37.40)	720 (28.35)	830 (32.68)	950 (37.40)
Crushing Force	ton	105	115	138	90	115	138
Cutting Force	ton	165	200	270	170	200	270
Cutter Length	mm (inch)	150 (5.91)	180 (7.09)	180 (7.09)	150 (5.91)	180 (7.09)	180 (7.09)
Overall Length	mm (inch)	2,020 (79.53)	2,280 (89.76)	2,300 (90.55)	2,300 (90.55)	2,400 (94.49)	2,700 (106.30)
Overall Height	mm (inch)	1,240 (48.82)	1,420 (55.91)	1,650 (64.96)	1,144.5 (45.06)	1,200 (47.24)	1,463 (57.60)
Overall Width	mm (inch)	460 (18.11)	490 (19.29)	550 (21.65)	710 (27.95)	710 (27.95)	810 (31.89)
Suitable Excavator	ton	12-20	18-30	26-40	15-24	20-30	26-40
Swing System		—	—	—	Hydraulic	Hydraulic	Hydraulic

* FR(Hydraulic Rotating): Flow (40-60 l/min), Max pressure (140 kg/cm²)
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MULTI FUNCTION CRUSHER

MODEL		DMC 20	DMC 30
Round Bar	mm	Ø35	Ø45
Channel	mm	250 x 90 x 11	425 x 100 x 16
Angle	mm	200 x 200 x 11	300 x 300 x 16
H-Beam	mm	200 x 200 x 10	250 x 250 x 14
Maximum	mm	—	300 x 300 x 12
Suitable Carrier	ton	18-26	27-36
Operating Pressure	kg/cm ²	300	320
Oil Flow	lpm	200-250	250-300
Weight	Crusher Jaw	kg	1,650
	Pulverizer Jaw	kg	1,700
	Shear Jaw	kg	1,700
Overall Height	Crusher Jaw	mm	2,200
	Pulverizer Jaw	mm	2,100
	Shear Jaw	mm	2,100

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MODEL		DMC 20	DMC 30
Jaw Opening	Crusher Jaw	mm	900
	Pulverizer Jaw	mm	870
	Shear Jaw	mm	503
Jaw Depth	Crusher Jaw	mm	760
	Pulverizer Jaw	mm	810
	Shear Jaw	mm	550
Cutting Force	ton	225	335
	Force @ Tip	ton	77
Cutter Length	Crusher Jaw	mm	180
	Pulverizer Jaw	mm	180
	Shear Jaw	mm	353
HYD. Swivel Motor	Max. Set Pressure	kg/cm ²	160
	Required Oil Flow	lpm	15-60
	Speed of Rotation	rpm	10-18

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