



Registered
ISO 9001:2000 / ISO 14001:2004

HYDRAULIC BREAKERS

DX SERIES



Floating power cell & bolt free enclosed housing

- Prevent carrier boom & arm fatigue failure
- No metal to metal contact
- Floating and fully enclosed power cell
- Extend breaker & carrier service life
- Low noise
- Suitable for all applications, particularly including trenching, quarry & mining



Advanced internal valve system

- Built in cylinder
- Energy efficiency
- Oil leakage free
- Thicker flesh cylinder block
- Least maintenance & repair requirement

Work mode selector

- Optimize power and speed upon application requirements
- Enable maximum productivity in all applications from light to severe duty material breaking
- Available for D&A 70DX & above

Anti-blank firing system (auto stop)

- Auto cut off hydraulic power when the material is fully broken
- Ensure service life of tool pin, working tool, front head, piston, through bolt and diaphragm even at the frequent dry firing applications such as rental, secondary rock breaking & scaling
- Available for D&A 80DX & above, on demand for D&A 60V & 70DX

Easy start

- Fast response time to breaker activation signal
- Significantly increase productivity at light or interior demolition applications
- Suitable for skid steer loader breaker applications
- Available for D&A 17V, 40V & 60V

Large capacity accumulator & diaphragm

- Proactively prevent carrier hydraulic part fatigue failure
- Accelerate striking performance
- Prevent cavitation
- Increase seal & diaphragm service life
- Available for D&A 40V & above (excluding skid steer loader breaker)

Bottom plate

- Anti-abrasive high tensile raw material
- Fully enclosed lower bush & front head block
- Minimize debris & dust entering percussion chamber
- Increase service life of housing, tool, lower bush & front head

Working tool

- Heat treatment of core as well as surface
- Optimum balance for longer wear life and crack prevention
- Variety of conventional and special tool types

Air supply

- Built in air
- Prepared & severe duty

Heavy duty front head

- Significantly enhanced
- Extend front head
- Available for D&A 100DX & above

Tool pin hole protection

- Minimize direct contact between tool pin and material to break
- Protect tool pin hole damage
- Prevent hole cover missing
- Extend tool pin and working tool life

Large size tool pin

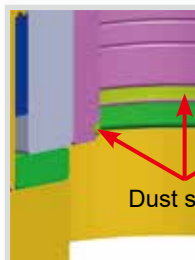
- Heavy duty oval shape dual pins
- Heat-treated, enlarged size
- Longer wear life
- Maintenance friendly design - bolt free, easy to change
- Available for D&A 70DX & above

Bushes

- Differentiated anti-wear raw material
- Higher core hardness
- Much longer wear life

Dust protector

- Prevent dust entering percussion chamber
- Prolong lubricant's stay between bushes & working tool
- Prevent contamination
- Secure service life of seal, bush, working tool, piston & cylinder in severe dusty applications
- Available for D&A 100DX & above



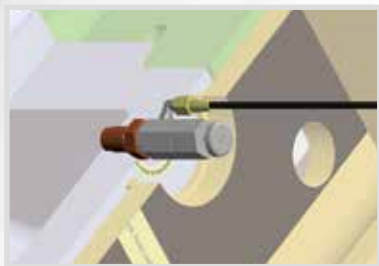
Large capacity gas chamber & optimum piston size

- Hybrid energy efficiency design
- Higher impact power delivery
- Least oil flow consumption
- Durable piston design - larger surface contacting working tool
- Dampening repercussion vibration force
- Preventing carrier structure fatigue failure



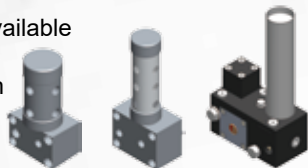
External gas charging

- Gas charging from external housing
- No need of housing or lubrication device disassembly
- Least maintenance time
- Designed for maintenance at the job site



Lubrication

- Various lubrication systems available
 - Hydraulic auto lube system
 - Mechanical auto lube system
 - Manual lube system



Supply channel

supply channel for underwater, tunneling dusty applications



Front head block

Increased front head duty level service life 800DX & above

Factor

between holes

Protection from debris and debris/dust entering tool wear life

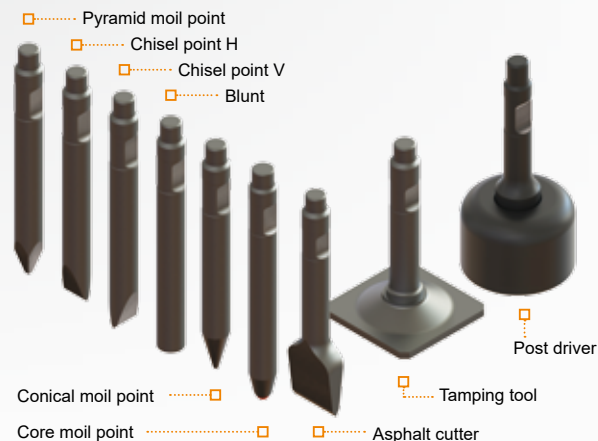
rubber plugged holes



Benefits

- Higher impact power
- Higher productivity
- Market proven quality, durability & life time
- Easy maintenance & repair
- Low fatigue stress on carrier machines
- Reasonable owning cost
- Low operating cost
- Higher return on investment

Working tool



Special working tool	Applicable type				Remark
	Asphalt removal	Compacting	Post driving	Severe duty rock removal	
Asphalt cutter	●				D&A 6V ~ 80DX
Tamping tool		●			D&A 6V ~ 80DX
Post driver			●		D&A 6V ~ 80DX
Core moil point				●	D&A 8V & above

Conventional working tool	Applicable type					Remark
	Primary breaking	Secondary breaking	Hard rock removal	Soft material & rock material	Demolition	
Chisel point V	○		○	●	●	All models
Chisel point H	○		○	●	●	All models
Pyramid moil point	●		○	●	●	All models
Conical moil point	●		○	●	●	All models
Blunt		●	●		○	All models

● Highly recommended ○ Selectively applicable

Comprehensive product line up

- 22 breaker models that cover the entire CE industry carrier range from 0.5 to 140 ton
- 1 model variant exclusively designed for dedicated light material breaking champion with 18 to 22 ton carrier
- 4 model variants exclusively designed for skid steer loader
- On-demand housing variants for optimum traveling position with backhoe loader
- Suitable from light and medium to hard & severe duty rock breaking applications

Compact breaker

		D&A 6V	D&A 7V	D&A 8V	D&A 17V	D&A 40V	D&A 60V	D&A 70DX	D&A 80DX
Operating weight	kg	80	105	141	184	325	412	518	600
	lb	176	232	311	406	717	908	1,143	1,323
Required oil flow	ℓ/min	18~25	15~30	15~35	23~70	35~70	40~110	45~100	50~100
	g/min	4.76~6.60	3.96~7.93	3.96~9.25	6.08~18.49	9.25~18.49	10.57~29.06	11.89~26.42	13.21~26.42
Operating pressure	kg/cm ²	60~130	90~120	90~120	90~120	110~165	120~165	140~170	140~170
	psi	853~1,849	1,280~1,707	1,280~1,707	1,280~1,707	1,565~2,347	1,707~2,347	1,991~2,418	1,991~2,418
Number of blow	Power mode	bpm						400~800	350~700
	Speed mode	bpm	800~1,200	800~1,400	550~1,000	600~1,500	380~1,000	380~900	600~1,100
Relief valve setting pressure	kg/cm ²	175	175	175	175	175	175	175	175
	psi	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489
Tool diameter	mm	40	40	45	57	70	75	80	90
	inch	1.57	1.57	1.77	2.24	2.76	2.95	3.15	3.54
Suitable carrier	ton	0.5~2.0	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
	lbs	1,102~4,409	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

* Above numbers are subject to change without prior notice, only provided for references in combination with carrier hydraulic performance.

* Above operating weight includes 1 working tool, 2 hoses and 1 mounting bracket with 2 pins that are supplied by the manufacturer only.

Medium breaker

		D&A 100DX	D&A 130DX	D&A 150DX	D&A 180DX	D&A 200DX	D&A 220DX	D&A 250DX	D&A 300DX
Operating weight	kg	875	1,012	1,231	1,448	1,577	1,845	2,021	2,507
	lb	1,929	2,231	2,714	3,192	3,477	4,068	4,456	5,527
Required oil flow	ℓ/min	75~120	80~140	100~150	100~155	120~170	120~190	150~210	180~240
	g/min	19.81~31.70	21.13~36.98	26.42~39.63	26.42~40.95	31.70~44.91	31.70~50.19	39.63~55.48	47.55~63.40
Operating pressure	kg/cm ²	140~180	140~190	140~190	150~190	160~190	160~190	160~190	160~190
	psi	1,991~2,560	1,991~2,702	1,991~2,702	2,134~2,702	2,276~2,702	2,276~2,702	2,276~2,702	2,276~2,702
Number of blow	Power mode	bpm	350~600	350~550	320~550	320~500	320~480	340~450	270~400
	Speed mode	bpm	600~900	600~900	400~700	400~650	400~600	420~550	330~500
Relief valve setting pressure	kg/cm ²	210	210	210	210	210	210	210	210
	psi	2,987	2,987	2,987	2,987	2,987	2,987	2,987	2,987
Tool diameter	mm	95	105	115	125	135	135	145	150
	inch	3.74	4.13	4.53	4.92	5.31	5.31	5.71	5.91
Suitable carrier	ton	8.0~12.5	10~15	12~18	16~22	18~24	20~26	24~30	25~36
	lbs	17,637~27,558	22,046~33,069	26,455~39,683	35,274~48,502	39,683~52,911	44,092~57,320	52,911~66,139	55,116~79,366

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Large breaker

		D&A 360DX	D&A 450DX	D&A 550DX	D&A 650DX	D&A 700DX	D&A 750DX	D&A 1200DX
Operating weight	kg	2,770	3,487	4,099	4,486	5,838	6,710	9,564
	lb	6,107	7,688	9,037	9,890	12,871	14,793	21,085
Required oil flow	ℓ/min	200~260	220~280	240~320	260~360	310~390	350~420	450~530
	g/min	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	150~190	150~190	150~190	170~210	170~210	170~210
	psi	2,276~2,702	2,134~2,702	2,134~2,702	2,134~2,702	2,418~2,987	2,418~2,987	2,418~2,987
Number of blow	Power mode	bpm	230~400	230~345	230~330	270~380	220~300	205~285
	Speed mode	bpm	270~470	270~410	270~500	380~530	290~400	235~420
Relief valve setting pressure	kg/cm ²	230	230	210	210	250	250	250
	psi	3,271	3,271	2,987	2,987	3,556	3,556	3,556
Tool diameter	mm	155	165	175	180	200	205	240
	inch	6.10	6.50	6.89	7.09	7.87	8.07	9.45
Suitable carrier	ton	28~42	34~50	40~60	45~80	58~100	60~100	85~140
	lbs	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

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Light material handling breaker

Designed for breaker operating champion in dedicated light material breaking application.

		D&A 200C	
Operating weight	kg	1,577	
	lb	3,477	
Required oil flow	l/min	100~120	
	g/min	26.42~31.70	
Operating pressure	kg/cm ²	140~180	
	psi	1,991~2,560	
Number of blow	Power mode bpm	300~410	
	Speed mode bpm	360~510	
Relief valve setting pressure	kg/cm ²	210	
	psi	2,987	
Tool diameter	mm	135	
	inch	5.31	
Suitable carrier	ton	18~22	
	lbs	39,683~48,502	

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Backhoe loader breaker



		D&A 40V	D&A 60V	D&A 70V	D&A 80V
Operating weight	kg	325	412	518	600
	lb	717	908	1,143	1,323
Required oil flow	l/min	35~70	40~110	45~100	50~100
	g/min	9.25~18.49	10.57~29.06	11.89~26.42	13.21~26.42
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	Power mode bpm	380~1,000	380~900	400~800	
	Speed mode bpm			600~1,100	
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 carrier	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

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Skid steer loader breaker



		D&A 17S	D&A 40S	D&A 60S	D&A 70S
Operating weight	kg	270	357	430	542
	lb	595	787	948	1,195
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	Power mode bpm	600~1,500	380~1,000	400~800	
	Speed mode bpm			600~1,100	
Relief valve 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 carrier	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.



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