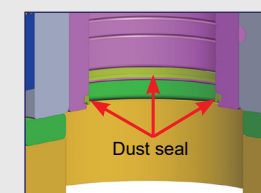
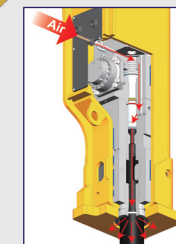
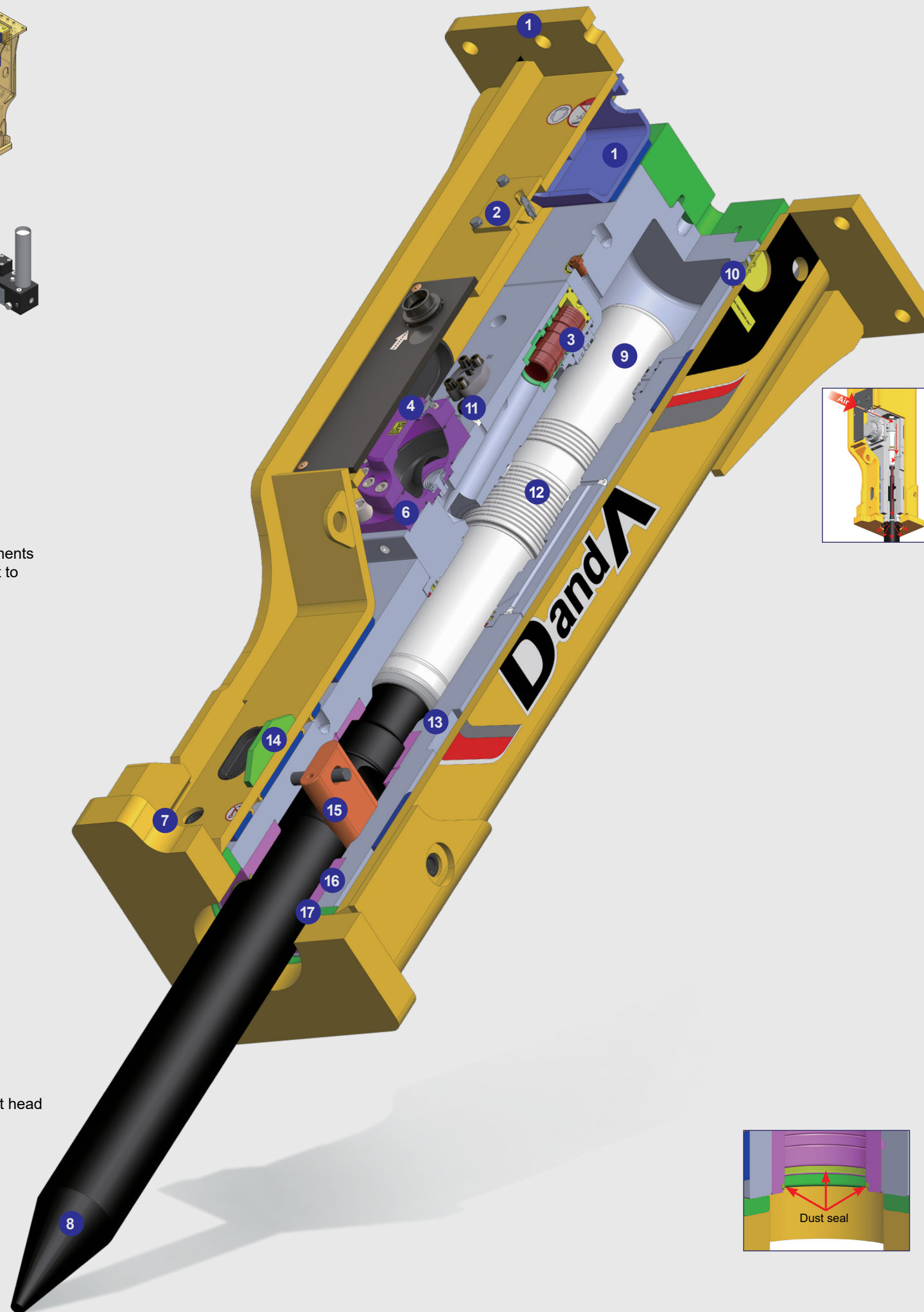
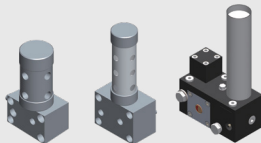
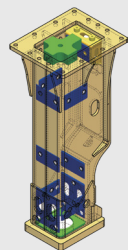




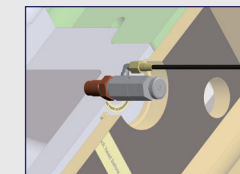
Hydraulic breakers

DX series

- 1 Floating power cell and bolt-free enclosed housing**
 - Prevent carrier boom and arm fatigue failure
 - No metal-to-metal contact
 - Floating and fully enclosed power cell
 - Extend breaker and carrier service life
 - Low noise
 - Suitable for all applications, particularly trenching, quarry and mining
- 2 Lubrication**
 - Various lubrication systems available
 - Hydraulic auto lube system
 - Mechanical auto lube system
 - Manual lube system
- 3 Advanced internal valve system**
 - Built-in cylinder
 - Energy efficient
 - Oil leakage free
 - Thicker flesh cylinder block
 - Less maintenance and repair requirements
- 4 Work mode selector**
 - Optimize power and speed based on application requirements
 - Enable maximum productivity in all applications from light to severe duty material breaking
 - Available for DandA 70DX and above
- 5 Easy start**
 - Fast response time to breaker activation signal
 - Significantly increase productivity in light or interior demolition applications
 - Suitable for skid steer loader breaker applications
 - Available for DandA 17V, 40V and 60V
- 6 Large-capacity accumulator and diaphragm**
 - Proactively prevent carrier hydraulic part fatigue failure
 - Accelerate striking performance
 - Prevent cavitation
 - Increase seal and diaphragm service life
 - Available for DandA 40V and above (excluding skid steer loader breaker)
- 7 Bottom plate**
 - Anti-abrasive high tensile raw material
 - Fully enclosed lower bush and front head block
 - Minimize debris and dust entering percussion chamber
 - Increase service life of housing, tool, lower bush and front head
- 8 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



- 9 Large-capacity gas chamber and optimum piston size**
 - Energy-efficient hybrid design
 - Higher impact power delivery
 - Less oil flow consumption
 - Durable piston design - larger surface contacting working tool
 - Dampen repercussion vibration force
 - Prevent carrier structure fatigue failure
- 10 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
- 11 Air supply channel**
 - Built-in air supply channel
 - Prepared for underwater, tunneling and severe dusty applications
- 12 Anti-blank firing system**
 - 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 and scaling
 - Available for DandA 60DX, 100DX and above
- 13 Heavy duty front head block**
 - Significantly enhanced front head duty level
 - Extend front head service life
 - Available for DandA 130DX and above
- 14 Tool pin hole protector**
 - Minimize direct contact between holes and material to break
 - Protect tool pin hole damage from debris
 - Prevent debris/dust from entering and loss of hole cover
 - Extend tool pin and working tool wear life
- 15 Large size tool pin**
 - Heavy-duty oval-shaped dual pins
 - Heat-treated, enlarged size
 - Longer wear life
 - Maintenance-friendly, bolt-free design with rubber-plugged holes
 - Available for DandA 70DX and above
- 16 Bushes**
 - Differentiated anti-wear raw material
 - Higher core hardness
 - Much longer wear life
- 17 Dust protector**
 - Prevent dust from entering percussion chamber
 - Prolong lubricant's stay between bushes and working tool
 - Prevent contamination
 - Secure service life of seal, bush, working tool, piston and cylinder in severe dusty applications
 - Available for DandA 130DX and above



Benefits



Higher impact power



Higher productivity



Market-proven quality, durability and lifetime



Easy maintenance and repair



Low fatigue stress on carrier machines



Reasonable owning cost



Low operating cost

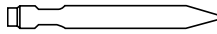
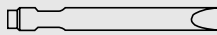
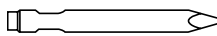
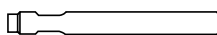


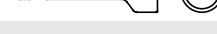
Higher return on investment



Working tool



Conventional working tool		Application type					Remark
		Primary breaking	Secondary breaking	Hard rock removal	Soft material and 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

Special working tool		Application type				Remark
		Asphalt removal	Compacting	Post driving	Severe duty rock removal	
	Asphalt cutter	●				DandA 6V - DandA 80DX
	Tamping tool		●			DandA 6V - DandA 80DX
	Post driver			●		DandA 6V - DandA 80DX
	Core moil point				●	DandA 8V and above

Comprehensive product lineup

- 21 breaker models that cover the entire CE industry carrier range from 0.5 to 100 tons
 - 1 model variant designed exclusively for light material breaking with 18- to 22-ton carriers
 - 4 model variants exclusively designed for skid steer loader
- On-demand housing variants for optimum traveling position with backhoe loader
 - Suitable for light and medium to hard and severe duty rock breaking applications

Compact breaker

			DandA 6V	DandA 7V	DandA 8V	DandA 17V	DandA 40V	DandA 60V	DandA 70DX	DandA 80DX
Operating weight		kg	80	105	141	184	295	390	470	570
Required oil flow		ℓ/min	15-21	12-25	13-30	20-60	29-65	34-68	38-85	42-85
Operating pressure		bar	60-130	90-120	90-120	90-120	110-165	120-165	140-170	140-170
Number of blow	Power mode	bpm	800-1,200	800-1,400	550-1,000	600-1,500W	380-900	380-900	400-800 600-1,100	350-700 490-1,000
	Speed mode	bpm								
Relief valve setting pressure		kg/cm²	175	175	175	175	175	175	175	175
Tool diameter		mm	40	40	45	57	70	75	80	90
Suitable carrier		ton	0,5-2,0	0,5-2,0	0,8-2,5	1,5-4,0	4,0-7,0	5,0-9,0	6,0-10	7,0-12,0

* Above numbers are subject to change without prior notice, only provided for reference 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

			DandA 100DX	DandA 130DX	DandA 150DX	DandA 180DX	DandA 200DX	DandA 220DX	DandA 250DX	DandA 300DX
Operating weight		kg	875	1,012	1,231	1,448	1,577	1,845	2,021	2,507
Required oil flow		ℓ/min	63-102	68-119	85-127	85-131	102-132	119-161	127-178	153-204
Operating pressure		bar	140-180	140-190	140-190	150-190	160-190	160-190	160-190	160-190
Number of blow	Power mode	bpm	350-600 600-900	350-650 600-900	320-550 400-700	320-500 400-650	320-480 400-600	340-450 420-550	270-400 330-500	250-380 300-450
	Speed mode	bpm								
Relief valve setting pressure		kg/cm²	210	210	210	210	210	210	210	210
Tool diameter		mm	95	105	115	125	135	135	145	150
Suitable carrier		ton	8,0-12,5	10-15	12-18	16-22	18-24	20-26	24-30	25-36

* Above numbers are subject to change without prior notice, only provided for reference 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.

Large breaker

			DandA 360DX	DandA 450DX	DandA 550DX	DandA 650DX	DandA 700DX
Operating weight		kg	2,770	3,487	4,099	4,486	5,838
Required oil flow		ℓ/min	170-221	187-238	204-272	221-306	238-323
Operating pressure		bar	160-190	150-190	150-190	150-190	170-210
Number of blow	Power mode	bpm	230-400 270-470	230-345 270-410	230-330 270-500	270-380 380-530	220-300 290-400
	Speed mode	bpm					
Relief valve setting pressure		kg/cm²	230	230	210	210	250
Tool diameter		mm	155	165	175	180	200
Suitable carrier		ton	28-42	34-50	40-60	45-80	58-100

* Above numbers are subject to change without prior notice, only provided for reference 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.

Light material handling breaker

Designed for superior breaker operation in dedicated light material breaking applications.

			DandA 200C
Operating weight		kg	1,577
Required oil flow		ℓ/min	102-132
Operating pressure		bar	140-180
Number of blow	Power mode	bpm	300-410 360-510
	Speed mode	bpm	
Relief valve setting pressure		kg/cm²	210
Tool diameter		mm	135
Suitable carrier		ton	18-22

* 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.

Backhoe loader breaker

			DandA 40V	DandA 60V	DandA 70DX	DandA 80DX
Operating weight		kg	295	390	470	570
Required oil flow		ℓ/min	29-65	34-68	38-85	42-85
Operating pressure		bar	110-165	120-165	140-170	140-170
Number of blow	Power mode	bpm	380-900	380-900	400-800 600-1,100	350-700 490-1,000
	Speed mode	bpm				
Relief valve setting pressure		kg/cm²	175	175	175	175
Tool diameter		mm	70	75	80	90
Suitable carrier		ton	4,0-7,0	5,0-9,0	6,0-10	7,0-12,0

* Above numbers are subject to change without prior notice, only provided for reference 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.

Skid steer loader breaker

			DandA 17V	DandA 40V	DandA 60V	DandA 70DX
Operating weight		kg	270	295	390	470
Required oil flow		ℓ/min	23-70	29-65	34-68	38-85
Operating pressure		bar	90-120	110-165	120-165	140-170
Number of blow	Power mode	bpm	600-1,500	380-900	380-900	400-800 600-1,100
	Speed mode	bpm				
Relief valve setting pressure**		kg/cm²	230	175	175	175
Tool diameter		mm	57	70	75	80
Suitable carrier		ton	1,5-4,0	4,0-7,0	5,0-9,0	6,0-10

* Above numbers are subject to change without prior notice, only provided for reference in combination with carrier hydraulic performance.
* Above operating weight includes 1 working tool, 2 hoses and 1 skid bracket that are supplied by the manufacturer only.



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