

HYDRAULIC BREAKERS & PARTS



JINAN CHANGHAO MACHINERY EQUIPMENT CO., LTD.



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Jinan Changhao Machinery Equipment Co., Ltd.

ABOUT US

Jinan Changhao Machinery Equipment Co., Ltd.



Jinan Changhao Machinery Equipment Co., Ltd. has been established over 20 years located in Jinan China with about 10,000 square meters production plant. We are member of SGS group. We adhere to the management principles of "quality first, customer first and credit-based" since the establishment of the company.

We are professional and experienced manufacturer of hydraulic breaker, hydraulic breaker spare parts, hydraulic breaker piping kits and other excavator attachments. Our breaker hammer spare parts can be used as replacement parts for hydraulic breaker of SOOSAN, Furukawa, NPK, Atlas Copco, Rammer, Montabert, Toko, Toyo, Teledyne, MSB, Krupp, Indeco etc.

Rich Variety of Products

The hydraulic breaker spare parts we can supply are hydraulic breaker seal kits, rubber diaphragm, reversing sleeve control valve, chisel tool, flat pin, rod pin, piston, thrush bush, ring bush, front cover, foot pedal valve, through bolt, side bolt, charging valve, front head, back head, accumulator, nitrogen charging device, bracket, outer-shell, main body assemble ect. The other excavator attachments we supply are hydraulic quick hitch, manual quick hitch, hydraulic plate compactor, ripper, rake, hydraulic thumb, log grapple, hydraulic shear, pulverizer crusher etc.

Perfect Service

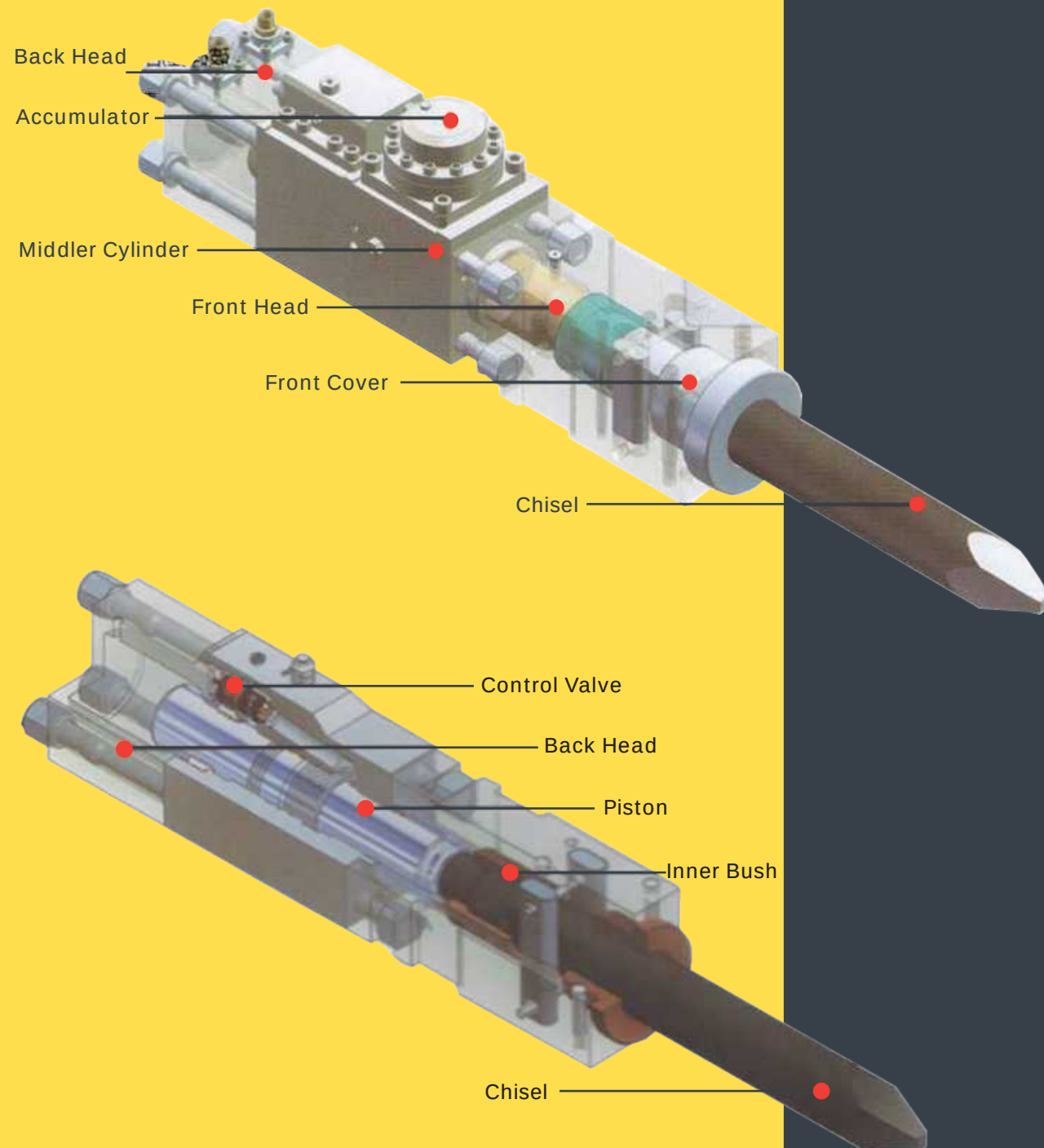
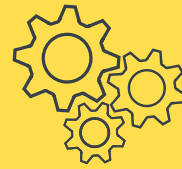
We export our goods to worldwide. Our main markets are South America, North America, South Africa, Middle East, Europe and other Asian countries. We concern much on our quality and get trust from our customers. Our competitive prices and high quality products are very welcome by our customers.



EXPO IN THE EXHIBITION



STRUCTURE



FEATURES



CYLINDER
Material 20CrMo.

Optimized cylinder groove design and unique balance and ratio improve anti-heating of oil temperature, make stable operation possible, and reduce the damage like scratches.



BACK HEAD
Material 40crmo

20CrMo forged,Larger gas chamber design brings the high impact power.



PISTON
Material GCr15.

Excellent durability and long life span by using high quality material and special heat-treatment technology. Higher impact power with extended piston stroke.



Control Valve
Material 20CrMo.

Low resistance reduces hydraulic fluid temperatures which increases efficiency.



Through Bolt
Material 40CrMo.

Each through bolt is heat-treated to prevent each bolt from being elongated and deformed. Improve durability and help better supporting whole hammer body structure in stable.



Accumulator
High quality steel

We use the special forging of products from high quality steel to ensure the service life of the product. CNC Machining ensures precise tolerances. The bottom assembly process and drilling process ensure that the accumulator will not break during the operation, which will affect the impact of the hydraulic breaker.



Housing
Material high manganese steel alloy steel

In terms of material selection, the housing of our hydraulic breaker tends to use high-strength and high-wear-resistant materials: high manganese steel and alloy steel, which can effectively resist material impact and wear and significantly improve the durability of our hydraulic breaker.

Types and Advantages of Hydraulic Breaker

SIDE TYPE Hydraulic Breaker



	Breakers' overall length reduced.
	More convenient for chisel to move backwards
	Easy maintenance.

TOP TYPE Hydraulic Breaker



	Breakers' length longer and weight heavier.
	Easy control and position, more convenient to do breaking jobs
	Vertical open-bracket design reduces the malfunction rate of chisel.

SILENCED TYPE Hydraulic Breaker



	Breakers' length longer and weight heavier.
	Easy control and position, more convenient to do breaking jobs
	Vertical open-bracket design reduces the malfunction rate of chisel.

Side Type Hydraulic Breaker



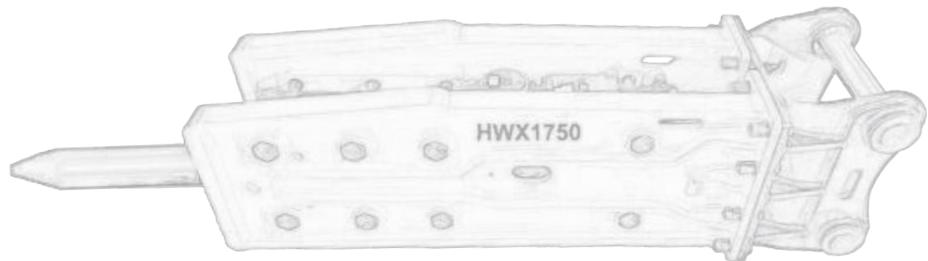
No.	Model	UNIT	HWX350	HWX400	HWX450	HWX530	HWX680	HWX750	HWX850
1	Weight	Kg	70	70	130	170	300	400	500
2	Length	mm	1000	1000	900	1000	1100	1300	1450
3	Working Pressure	kg/cm²	90-120	90-120	110-140	110-140	110-160	110-160	120-170
4	Oil Flow	L/min	15-25	15-25	25-40	25-45	30-45	35-65	45-85
5	Impact Rate	bpm	700-1200	700-1200	550-1000	500-900	500-800	500-700	400-700
6	Oil hose dia.	inch	3/8	3/8	1/2	1/2	1/2	1/2	3/4
7	Chisel Dia.	mm	35	40	45	53	68	75	85
8	Chisel Weight	kg	4	4	5	8	17	21	32
9	Bucket Capacity	m³	0.1	0.1	0.1	0.1	0.15-0.25	0.25-0.35	0.25-0.5
10	Excavator	ton	0.8~1.2	1.0~2.0	2.5~4.5	3.0~5.5	4.0-7.0	6.0-8.0	7.0-14

No.	Model	UNIT	HWX1000	HWX1350	HWX1400	HWX1500	HWX1550	HWX1650	HWX1750
1	Weight	Kg	800	1700	1800	2400	2600	3100	4100
2	Length	mm	1500	1600	1700	2800	3300	3500	3800
3	Working Pressure	kg/cm²	150-170	180-200	180-200	180-200	180-200	200-250	220-280
4	Oil Flow	L/min	80-120	120-160	130-170	150-190	170-220	120-160	120-160
5	Impact Rate	bpm	400-700	400-700	400-600	350-500	250-400	400-700	400-700
6	Oil hose dia.	inch	3/4	1	1	1	1 1/4	1 1/4	1 1/4
7	Chisel Dia.	mm	100	135	140	150	155	165	175
8	Chisel Weight	kg	50	120	135	150	190	225	250
9	Bucket Capacity	m³	0.45-0.6	0.6-0.8	0.7-0.9	1.1-1.4	1.1-1.7	1.2-1.7	1.3-1.8
10	Excavator	ton	11-16	19-26	19-26	27-38	28-40	30-45	30-45

Top Type Hydraulic Breaker

No.	Model	UNIT	HWX350	HWX400	HWX450	HWX530	HWX680	HWX750	HWX850
1	Weight	Kg	70	70	130	170	300	400	500
2	Length	mm	1000	1000	900	1000	1100	1300	1450
3	Working Pressure	kg/cm²	90-120	90-120	110-140	110-140	110-160	110-160	120-170
4	Oil Flow	L/min	15-25	15-25	25-40	25-45	30-45	35-65	45-85
5	Impact Rate	bpm	700-1200	700-1200	550-1000	500-900	500-800	500-700	400-700
6	Oil hose dia.	inch	3/8	3/8	1/2	1/2	1/2	1/2	3/4
7	Chisel Dia.	mm	35	40	45	53	68	75	85
8	Chisel Weight	kg	4	4	5	8	17	21	32
9	Bucket Capacity	m³	0.1	0.1	0.1	0.1	0.15-0.25	0.25-0.35	0.25-0.5
10	Excavator	ton	0.8~1.2	1.0~2.0	2.5~4.5	3.0~5.5	4.0-7.0	6.0-8.0	7.0-14

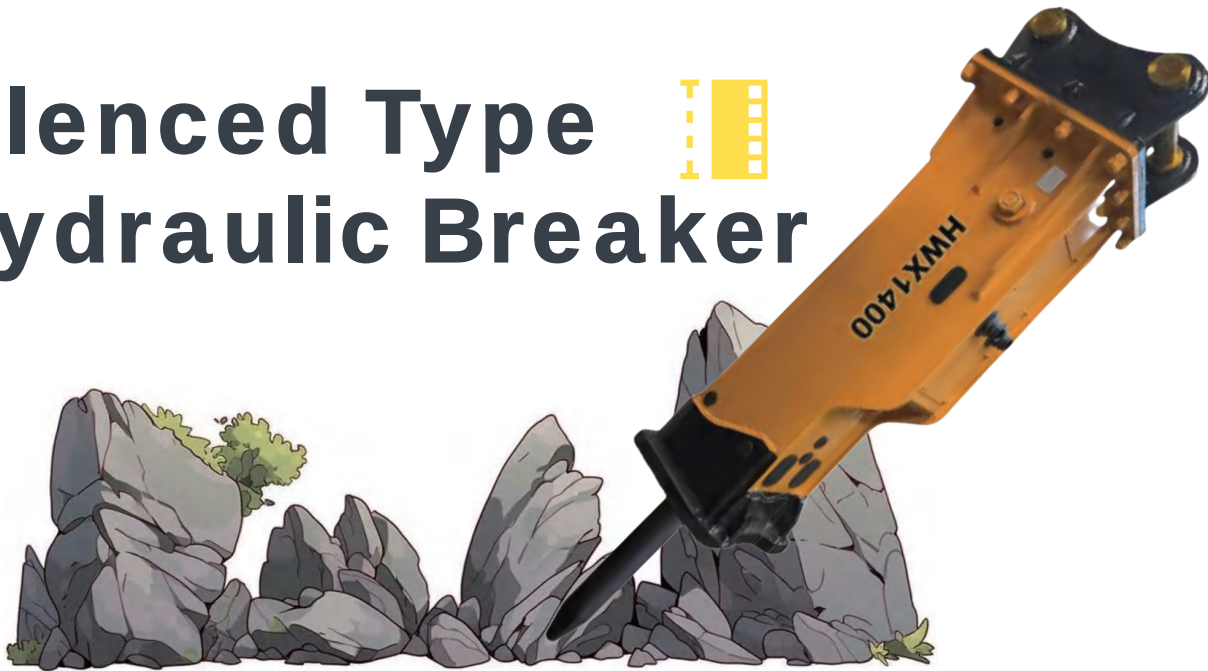
No.	Model	UNIT	HWX1000	HWX1350	HWX1400	HWX1500	HWX1550	HWX1650	HWX1750
1	Weight	Kg	800	1700	1800	2400	2600	3100	4100
2	Length	mm	1500	1600	1700	2800	3300	3500	3800
3	Working Pressure	kg/cm²	150-170	180-200	180-200	180-200	180-200	200-250	220-280
4	Oil Flow	L/min	80-120	120-160	130-170	150-190	170-220	120-160	120-160
5	Impact Rate	bpm	400-700	400-700	400-600	350-500	250-400	400-700	400-700
6	Oil hose dia.	inch	3/4	1	1	1	1 1/4	1 1/4	1 1/4
7	Chisel Dia.	mm	100	135	140	150	155	165	175
8	Chisel Weight	kg	50	120	135	150	190	225	250
9	Bucket Capacity	m³	0.45-0.6	0.6-0.8	0.7-0.9	1.1-1.4	1.1-1.7	1.2-1.7	1.3-1.8
10	Excavator	ton	11-16	19-26	19-26	27-38	28-40	30-45	30-45



Silenced Type Hydraulic Breaker

No.	Model	UNIT	HWX350	HWX400	HWX450	HWX530	HWX680	HWX750	HWX850
1	Weight	Kg	70	70	130	170	300	400	500
2	Length	mm	1000	1000	900	1000	1100	1300	1450
3	Working Pressure	kg/cm²	90-120	90-120	110-140	110-140	110-160	110-160	120-170
4	Oil Flow	L/min	15-25	15-25	25-40	25-45	30-45	35-65	45-85
5	Impact Rate	bpm	700-1200	700-1200	550-1000	500-900	500-800	500-700	400-700
6	Oil hose dia.	inch	3/8	3/8	1/2	1/2	1/2	1/2	3/4
7	Chisel Dia.	mm	35	40	45	53	68	75	85
8	Chisel Weight	kg	4	4	5	8	17	21	32
9	Bucket Capacity	m³	0.1	0.1	0.1	0.1	0.15-0.25	0.25-0.35	0.25-0.5
10	Excavator	ton	0.8~1.2	1.0~2.0	2.5~4.5	3.0~5.5	4.0-7.0	6.0-8.0	7.0-14

No.	Model	UNIT	HWX1000	HWX1350	HWX1400	HWX1500	HWX1550	HWX1650	HWX1750
1	Weight	Kg	800	1700	1800	2400	2600	3100	4100
2	Length	mm	1500	1600	1700	2800	3300	3500	3800
3	Working Pressure	kg/cm²	150-170	180-200	180-200	180-200	180-200	200-250	220-280
4	Oil Flow	L/min	80-120	120-160	130-170	150-190	170-220	120-160	120-160
5	Impact Rate	bpm	400-700	400-700	400-600	350-500	250-400	400-700	400-700
6	Oil hose dia.	inch	3/4	1	1	1	1 1/4	1 1/4	1 1/4
7	Chisel Dia.	mm	100	135	140	150	155	165	175
8	Chisel Weight	kg	50	120	135	150	190	225	250
9	Bucket Capacity	m³	0.45-0.6	0.6-0.8	0.7-0.9	1.1-1.4	1.1-1.7	1.2-1.7	1.3-1.8
10	Excavator	ton	11-16	19-26	19-26	27-38	28-40	30-45	30-45



Hydraulic Breaker For Skid Steer & Backhoe Loader



FRONT HEAD



BACK HEAD



HYDRAULIC BREAKER
MAIN BODY



HYDRAULIC CYLINDER



REVERSING CONTROL VALVE SLEEVE VALVE
PISTON RING SEAL RETAINER



HYDRAULIC BREAKER
MAIN BODY



HYDRAULIC BREAKER MAIN BODY



HYDRAULIC BREAKER CHISEL TOOL

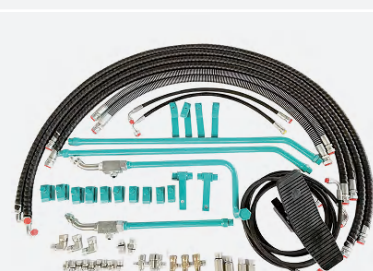
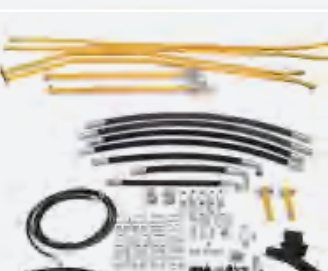
Hydraulic Breaker Parts



 MEMBRANE RUBBER DIAPHRAGM	 HYDRAULIC BREAKER SEAL KITS	 DAMPER SHOCK ABSORBER	
 HYDRAULIC BREAKER PISTON	 THROUGH BOLT SIDE BOLT	 FLAT PIN/ROD PIN	
 HYDRAULIC BREAKER BUSHING	 ACCUMULATOR	 REVERSING SLEEVE VALVE ASSEMBLY	
 NITROGEN VALVE CHARGING VALVE	 VALVE NEEDLE	 FREQUENCY ADJUSTING VALVE	 NITROGEN CHARGING KIT



Hydraulic Breaker PIPING KITS

 CAT320	 CAT416 CAT420 CAT436	 DOOSAN DH215-9
 HITACHI EX200	 HYUNDAI R220	 JCB3CX 3DX 4CX 4DX
 KOBELCO SK200-8	 KOMATSU PC210	 KOMATSU PC300
 KUBOTA RX-406	 SANY SY235c	 VOLVO EC210



SPARE PARTS OF HYDRAULIC BREAKER PIPING KITS

Quick Coupler / Hitch



Piping Clamp



Clamp For Free-welding Pipe



Flange Clamp



Piping Connector



Air Sensor Compressor Transducer



Free-welding Ball Valve



Ball Valve



Flange Type Ball Valve



Check Valve



Accumulator For Breaker Piping



One Way Foot Pedal



Two-way Foot Pedal



Relief Valve



Pc200-8 Standby Valve



Accumulator For Breaker Piping



HYDRAULIC QUICK HITCH



MECHANICAL QUICK HITCH



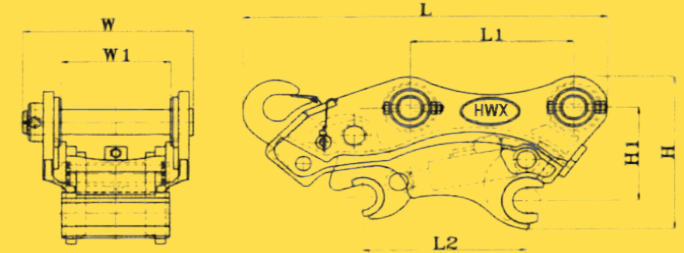
TILTING QUICK HITCH



Q355 MATERIAL
HIGH STRENGTH



EASY INSTALLATION
HIGH EFFICIENCY



It is used for connecting different excavator attachments,such as hydraulic breaker, ripper, hydraulic compactor.

ADVANTAGE OF HYDRAULIC BREAKER PIPING KITS



FULL SET OF PIPING KITS

Full set of piping kits for different hydraulic breakers used for different brand of excavators. Our products can be used in excavators such as Komatsu, Caterpillar, Hitachi, Kobelco, Volvo.Sany, Doosan, JCB, CASE, John Deere etc.



HQ HIGH QUALITY

All the hard pipelines are guaranteed for life. High quality can be guaranteed.



INSTRUCTIONS

We provide installation instructions for hydraulic breaker piping kits.



CLEAN AND DUST FREE

All pipelines are acid-washed and phosphated to ensure that the inside of the pipeline is cleanand dust-free, and the hydraulic system of the excavator is clean and pollution-free.



UNIFORM IN COLOR

Outer surface of the pipeline is painted or powder coating with various colors , which are exactlythe same with the color of the excavator body.



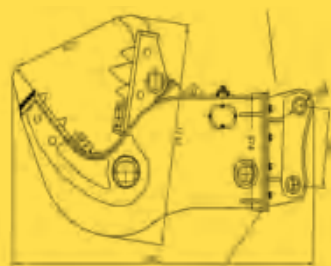
SCIENTIFIC RESEARCH

All the accessories of our pipeline, including hoses, clamps, ball valves, etc, are independentlydeveloped and manufactured by our factory to ensure product quality, safety and reliability.

Model	Suit For Excavator	Total Length	Total Height	Total Width	Pin Distance	Arm Width	Pin Diameter	Weight
Unit	ton	mm	mm	mm	mm	mm	mm	kg
HWX-MINI	1.5-4	360-475	250-300	175-242	85-200	90-150	25-40	45
HWX-02	5-6	534-545	307	258-263	220-270	155-170	45-50	70
HWX-04	7-9	600	320	270-350	290-360	180-230	50-55	100
HWX-06	12-18	820	410	365-436	360-420	220-315	60-70	180
HWX-08	19-24	944-990	520	449-483	430-520	300-350	70-80	350
HWX-10	26-32	1040	600	480-540	450-560	350-410	90	550
HWX-17	33-45	1006-1173	630	550-660	500-660	370-480	100-120	800

Hydraulic Crusher Pulverizer

 **Applications**
Crush concrete building materials.



Model	Suitable Weight	Jaw Opening	Total Length	Total Width	Total Height	Max Crushing Force	MAX Shear Force	Working Pressure	Weight
Unit	ton	mm	mm	mm	mm	ton	ton	kg/cm ²	kg
HWX-02	4-9	450±30	1170	310	740	83	126	230	320
HWX-06	12-18	700±30	1675	590	1100	105	165	280	900
HWX-08	19-24	830±30	2135	660	1310	165	210	300	1600

 Features

- 1 Large bore dual cylinders: Strong power and excellent durability.
- 2 Speed up valve: Fast cycle time.
- 3 Lighter and stronger structure: Material Hardox 400-500;high precision
- 4 360°rotating function option.
- 5 Working efficiency is two or three times of hydraulic breaker.
- 6 Large opening design,working easily and conveniently.
- 7 Equipped with steel bar cutter, high temperature resistance, deformation resistance, fufill crushing and cutting off exposed reinforced steel at same time.
- 8 Low noise, can be used for city and high-tech

 Applications

- 1 The use of rammed slope pavement construction
- 2 Use of rammed foundation buildings
- 3 Use of rammed soil, gravel, etc.
- 4 The use of rammed slope bank
- 5 The use of bottom soil in the construction of rammed pipelines
- 6 The use of rammed drainage pipes and rock bases
- 7 Use of test pile work.

 Features

- 1 **Q355 material.**
Strong tamping ability and high reliability. Optional for excavators or backhoe loaders (both ends are busy) for efficient and economical compaction work.
- 2 **High quality components and advanced design.**
Hydraulic compactors maintain high reliability and low operating costs even in harsh conditions. Reinforced steel construction and strong rubber bumpers allow the machine to exert great tamping power without damaging itself due to recoil.
- 3 **Easy to install and widely used.**
Hydraulic plate compactors are very quick to install, far superior to hand-push plate compactors, and in many situations where hand-push plate compactors cannot work, such as deep trenches or steep slopes, Mingyuan hydraulic compactors can complete the job without fear of danger.

Hydraulic Compactor

SUITABLE 
3.5-32 ton excavator.

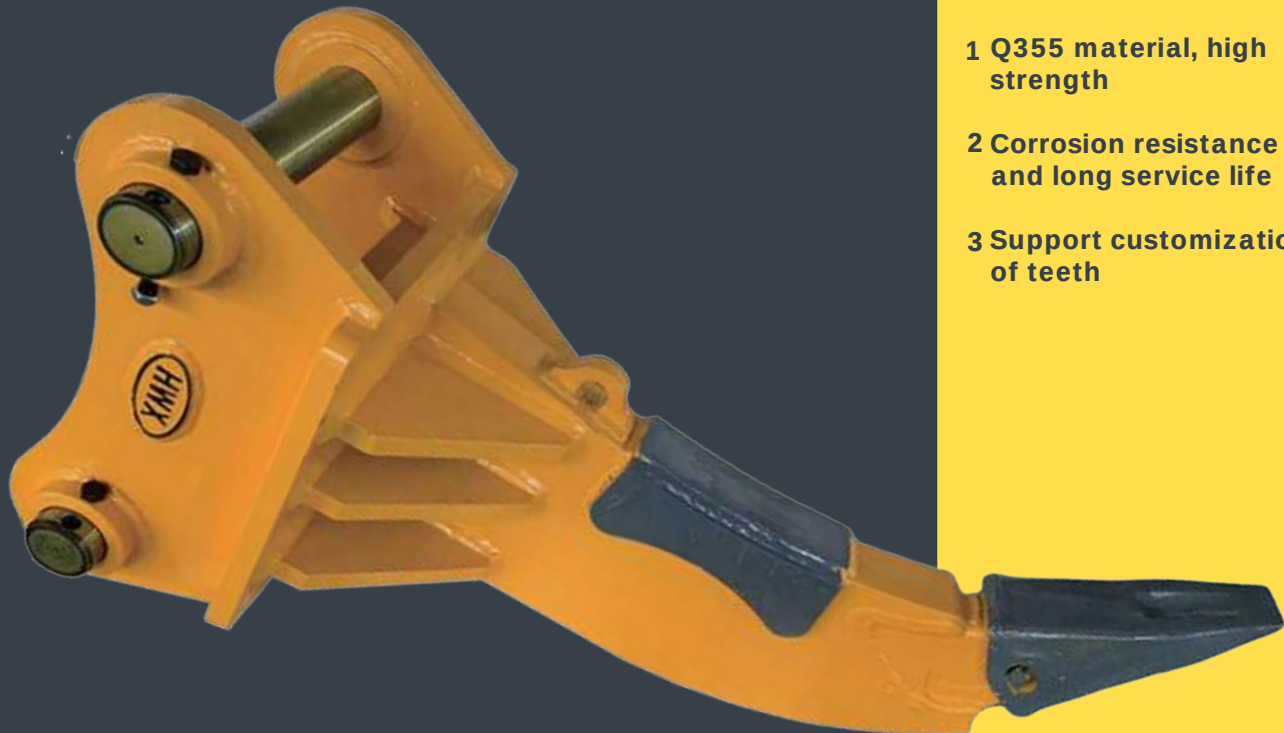


Model	Suitable Weight	Pin Diameter	Impact Force	Impact Rate Max	Working Pressure	Impact Size	Working Flow	Total Height	Total Width	Weight
Unit	ton	mm	ton	rpm	kg/cm ²	mm ²	l/min	mm	mm	kg
HWX-Mini	3.5-4.5	25/40	3	2000	100-130	590*330	30-60	435	442	200
HWX-02/04	5-9	45/55	4	2000	110-140	900*550	45-75	730	550	300
HWX-06	12-18	60/65	6.5	2000	150-170	1160*700	85-105	900	700	600
HWX-08	19-24	70/80	15	2000	160-180	1250*900	120-170	1000	900	850
HWX-10	25-32	90	15	2000	160-180	1250*900	120-170	1050	900	850

Ripper

Applications

Used for hard soil such as weathered soil and rocks, tundra etc.



Features

- 1 Q355 material, high strength
- 2 Corrosion resistance and long service life
- 3 Support customization of teeth

Model	Suitable Weight	Pin Distance	Total Width	Total Height	Total Length	Pin Diameter	Arm Width	Weight
Unit	ton	mm	mm	mm	mm	mm	mm	kg
HWX-Mini	1.5-4	85-200	260	310	700	25-40	90-150	50
HWX-02/04	5-9	220-310	320	420	800	45-55	180-230	80
HWX-06	12-18	390	430	530	1000	60-70	220-315	280
HWX-08	19-24	465	530	670	1400	70-80	300-350	400
HWX-10	25-32	515	610	700	1620	90	350-410	550
HWX-17	36-45	580	680	800	1720	100-120	370-480	900

Hydraulic Grapple

Applications

wood and other large scraps handing, moving, loading and organizing.



Features

- 1 NM400 steel
NM400 steel, light weight and wear-resistant.
- 2 42CrMo alloy steel
The pin is made of 42CrMo alloy steel, with built-in oil passage, high strength and good toughness;
- 3 Swiss electric machine
Rotary motor imported from Switzerland. Use vertical car motor rotation system, 360 ° rotation, with car brake function.
- 4 Long life
The oil cylinder adopts honing tube, imported high quality oil seal, short working cycle and long life.
- 5 Which is durable
The teeth are made of manganese molybdenum alloy material, which is durable.

Model	Suitable Weight	Jaw Opening	Working Pressure	Setting Pressure	Working Flow	Cylinder Volume	Weight
Unit	ton	mm	kg/cm ²	kg/cm ²	l/min	l	kg
HWX-02/04	5-9	1400	110-140	170	30-55	2*4.0	350
HWX-06	12-18	1800	150-170	190	90-110	2*8.0	740
HWX-08	19-24	2300	160-180	200	100-140	2*9.7	1380
HWX-10	25-32	2500	160-180	210	130-170	2*12	1700

Hydraulic Single Cylinder Shear



Applications

the disintegration of vehicles such as motorcycles, vans etc. The compression and volume reduction of scrap steel. the demolition of other buildings, steel shearing and other crushing and cutting operations.

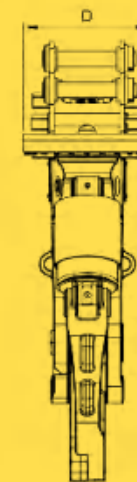
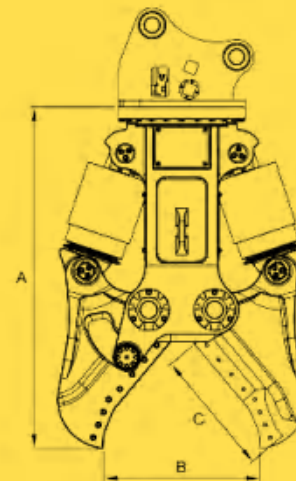


Features

- 1 using Hardox steel, light weight and wear-resistant;
- 2 The pin shaft is made of 42CrMo alloy steel with built-in oil passage, which has high strength and good toughness;
- 3 The rotating motor adopts imported motor, which rotates in full angle;
- 4 The knife block is made of wear-resistant alloy steel, which is resistant to high temperature and deformation.



Model	Suitable for Excavator	Weight	Opening	Blade Length	Driving Pressure	Driving Flow	Cutting Force
Unit	ton	kg	mm	mm	bar	mm	ton
HWX-S3-5	3-5	200	250	4*120	200	40-60	30
HWX-S6-10	6-10	365	376	6*110	250	80-150	80
HWX-S12-18	12-18	1000	480	6*140	300	150-200	150
HWX-S22-27	22-27	2000	600	2*210	340	200-250	240
HWX-S28-36	28-36	3020	650	2*210	340	250-300	300



Features

- 1 using Hardox steel, light weight and wear-resistant;
- 2 The pin shaft is made of 42CrMo alloy steel with built-in oil passage, which has high strength and good toughness;
- 3 The rotating motor adopts imported motor, which rotates in full angle;
- 4 The knife block is made of wear-resistant alloy steel, which is resistant to high temperature and deformation.

Doule Cylinder Hydraulic Scrap Shear



Application

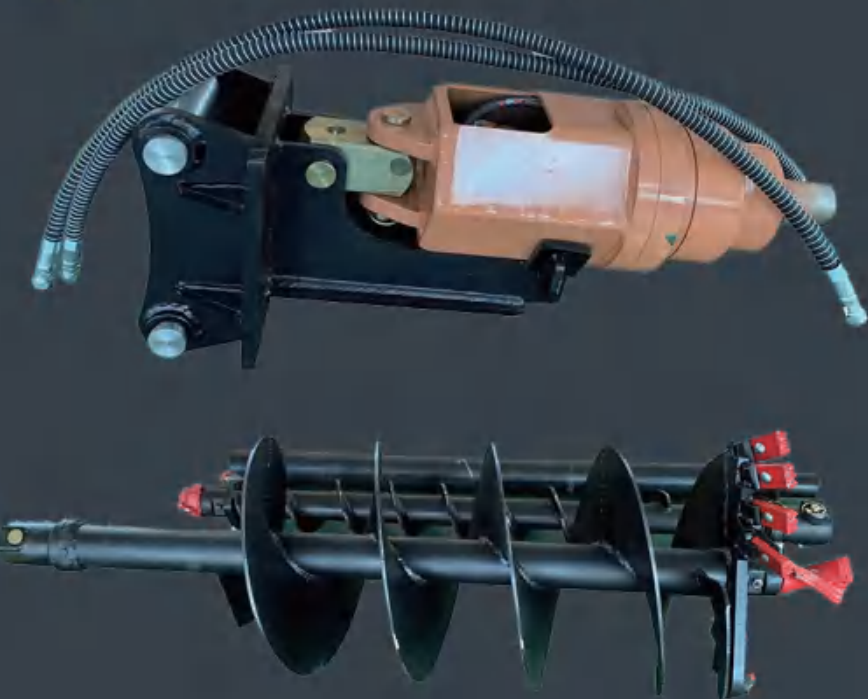
Widely used in steel scrap vehicle factory



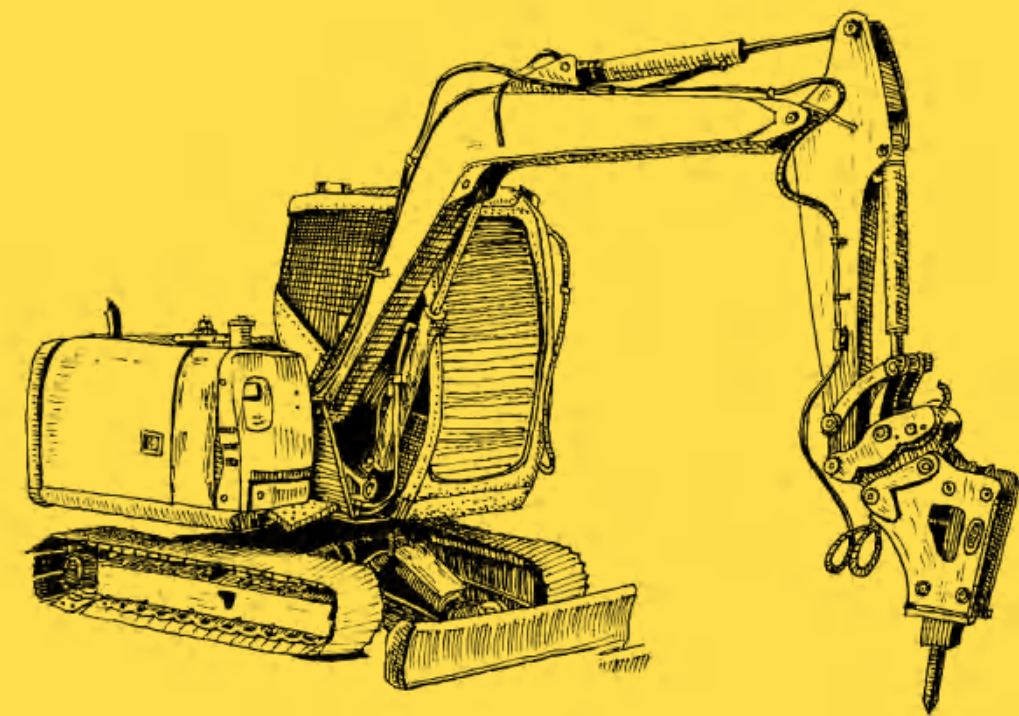
Model	Suitable Weight	Jaw Opening	Working Pressure	Setting Pressure	Working Flow	Cylinder Volume	Weight
Unit	ton	mm	kg/cm ²	kg/cm ²	l/min	l	kg
HWX-02/04	5-9	1400	110-140	170	30-55	2*4.0	350
HWX-06	12-18	1800	150-170	190	90-110	2*8.0	740
HWX-08	19-24	2300	160-180	200	100-140	2*9.7	1380
HWX-10	25-32	2500	160-180	210	130-170	2*12	1700

Excavator Earth Auger Drill

Applications
Used for tree planting, pole hole, drilling.



Model	Suitable for Excavator	Working Flow	Max Torque	Working Pressure	Rotary Speed	Oil Pipe Diameter	Drill Diameter
Unit	ton	l/min	n*m	kg/cm ²	rpm	in	mm
HWX-3500	2.5-4.5	30-68	3614	240	32-72	1/2	100-750
HWX-4500	3-5	38-76	4218	240	32-64	1/2	100-900
HWX-5000	4.5-7	38-76	5056	240	29-58	1/2	150-600
HWX-5500	5-7	45-83	5910	240	28-50	1/2	150-750
HWX-6000	6-8	45-106	6150	240	34-80	3/4	150-900
HWX-7000	7-10	61-121	6931	240	37-72	3/4	150-900
HWX-8000	8-12	61-136	8048	240	29-64	3/4	150-900
HWX-10000	10-13	70-136	10778	240	26-45	1	150-900
HWX-12000	13-17	80-140	11976	240	22-43	1	150-900
HWX-15000	13-17	80-151	15046	240	20-39	1	150-1200
HWX-20000	13-20	80-170	19039	240	17-34	1	150-1200
HWX-25000	15-23	90-180	24949	240	16-30	1	150-1200
HWX-50000	21-50	100-280	50195	280	11-30	1	300-2400



Features

- 1 Q355 material, high strength
- 2 Corrosion resistance and long service life
- 3 Support customization of teeth

Features

- 1 Use high level wear-resisting plate steel, durable in use;
- 2 High level machning precision and high breaking capacity;
- 3 Customization of 360° rotating function.

Hydraulic Concrete Crusher

Application
Used to demolish building and constructions



Item/Model	Unit	HWX-40	HWX-80	HWX-180	HWX-280	HWX-380
Suitabel for Excavator	ton	4-9	6-10	12-18	20-30	26-35
Weight	kg	400	360	1280	1600	2000
Opening	mm	440	390	650	730	810
Blade Length	mm	120	100	150	180	180
Height	mm	1330	1280	1890	2010	2120
Width	mm	770	850	1285	1350	1500
Crushing Force	ton	50	20	80	100	120
Cutting Force	ton	55	50	165	210	260
Driving Pressure	bar	260	250	300	300	300
Driving Flow	lpm		180	230	240	240

Excavator Bucket



Applications

1. Standard bucket is mainly used for excavation, sand gravel, soil and other light load operating environment;
2. Rock Bucekt is mainly used for mining hard gravel mixed protector with hard soil, hard stone or flint, used for loading in highly abrasive application such as severe rock.



Material	G.E.T	Application
Q355+NM400	Adapter, Teeth, Side Cutter	Main used for excavation, sand gravel, soil and other light load operating conditions.
Q355+NM400	Adapter, Teeth, Side Cutter	Main used for digging hard soil, mined with a relative soft stone and clay softer stones, and other light load operating conditions.
Q355+NM400	Adapter, Teeth, Side Cutter	Mainly used for mining hard gravel mixed with hard soil, hard stone or flint. Used for loading in highly abrasive applications such as serve rock.

Hydraulic Thumb



Applications

The hydraulic thumb can be used with the bucket to complete the grabbing and clamping actions without affecting the bucket function and use. It can be used for different tasks with different excavator operations. Whether it is carrying wood, stones or other heavy materials, it can easily handle it. It is easy to install and easy to operate.



Model	HWX02	HWX04	HWX06	HWX08	HWX10
Weight(kg)	100	150	200	350	500
Oil pressure(kg/cm2)	110~140	120~160	150~170	160~180	160~180
Set up pressure(kg/cm2)	170	180	190	200	210
Operating flux(L/min)	30~55	50~100	90~110	100~140	130~170
Excavator(Ton)	4-6	7-11	46007	17-22	23-30