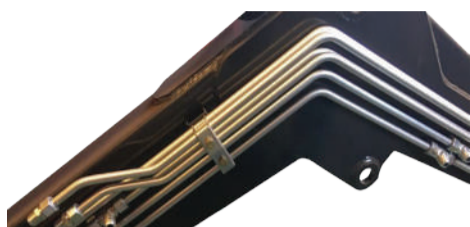


Front Loader

- All tractor which can be mounted on
- An excellent compatibility, powerful durability
- Multipurpose multifunction front end loader



Features



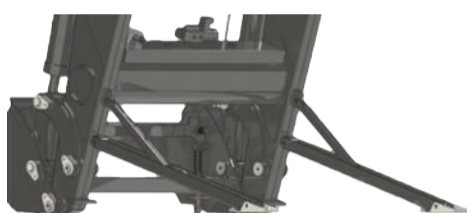
Hydraulic Pipe
Experienced much enhanced durability with the hydraulic pipes manufacture by BENTELER (Made in Germany) and applied to all models



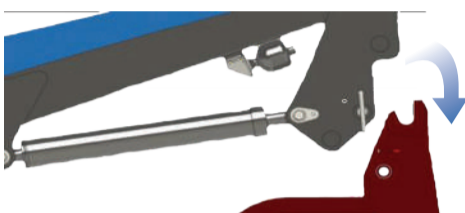
External Hydraulic Coupler
This can be simply connected when using the machinery that requires hydraulic action. The operator can easily mount or dismount the part



Leveler
It maintains a certain angle to prevent the loaded object from scattering while the leveler is mounted to enable stable work



Separation Stand
It enables stable mounting/dismounting of the loader for it can adjust the height depending on the height of the ground



Dual Mounting/Dismounting Device
Anyone can easily mount or dismount the loader with simple one-touch lever



Special Hydraulic Cylinder
Special hydraulic cylinders are inspected one by one and it puts out the best performance even under rough working conditions

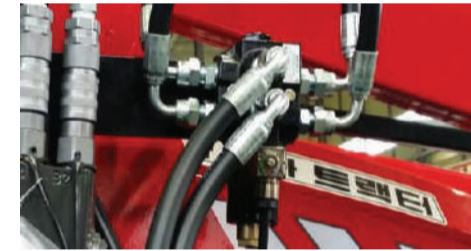
Options



Multi-connections
All plates are designed with non-drip Flat-Face couplings according to ISO 16028. Nipples with integrated pressure eliminators ensure smooth connections even with high residual pressure



Relief Valve
It automatically adjust the hydraulic pressure to prevent overloading that can occur when working with the loader and ensure safe operation



Solenoid Valve
It allows the operator to use a variety of hydraulic machinery by connecting electronic valve and hydraulic couplings



Convenient automatic implement locking
Connect the bucket the loader and then release the lever, it will be tightly locked up for safe work



Accumulator
Hydraulic accumulator absorb the shock during of loader work and protect the tractor



3rd Service function
Fast and efficient 3rd service adds versatility to your loader and tractor when using implements with hydraulic requirements

Specifications

Model	Agricultural Machinery	Front Loader
	Name	HL1900
Bucket dimension	Length (mm)	717
	Height (mm)	496
	Depth (mm)	512
	Width (mm)	1458
	Boom cylinder (mm)	35 x 60 x 725 x 435ST
	Bucket cylinder (mm)	35 x 60 x 729 x 363ST
	Power take-off	Digging depth (mm)
Maximum lift height to pivot pin (mm)		2679
Maximum lift height under lever bucket (mm)		2390
Clearance with bucket dumped (mm)		1933
Reach at maximum lift height (mm)		251
Maximum dump angle (°)		52.7
Reach with bucket on ground (mm)		1799
Lift capacity to maximum height at pivot pin (kg)		1198
Breakout force-at pivot pin (kgf)		2458
Bucket rollback force at ground line (kgf)		1355
	Boom raising time (seconds)	4.0
	Boom lowering time (seconds)	2.6
	Bucket rollback time (seconds)	2.2
	Bucket dumping time (seconds)	3.3
Maximum pressure - governing loader operation (bar)		150
Rated flow (gpm)		9.72

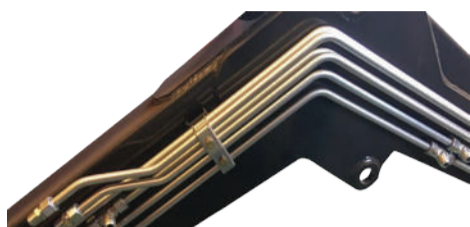
* These specifications above to change for enhancements in quality and performance.

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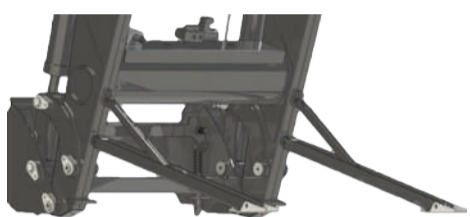
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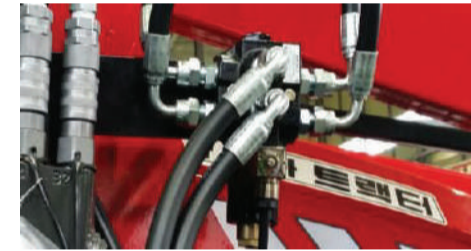
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3rd Service function
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Specifications

Model	Agricultural Machinery	Front Loader
	Name	HL1800
Bucket dimension	Length (mm)	717
	Height (mm)	496
	Depth (mm)	512
	Width (mm)	1458
	Boom cylinder (mm)	35 x 60 x 666.6 x 435ST
	Bucket cylinder (mm)	35 x 60 x 674 x 363ST
Power take-off	Digging depth (mm)	120
	Maximum lift height to pivot pin (mm)	2557
	Maximum lift height under lever bucket (mm)	2269
	Clearance with bucket dumped (mm)	1838
	Reach at maximum lift height (mm)	276
	Maximum dump angle (°)	47.0
	Reach with bucket on ground (mm)	1693
	Lift capacity to maximum height at pivot pin (kg)	959
	Breakout force-at pivot pin (kgf)	2020
	Bucket rollback force at ground line (kgf)	1072
	Boom raising time (seconds)	4.0
	Boom lowering time (seconds)	2.6
	Bucket rollback time (seconds)	2.2
	Bucket dumping time (seconds)	3.3
	Maximum pressure - governing loader operation (bar)	150
	Rated flow (gpm)	9.72

* These specifications above to change for enhancements in quality and performance.

Back Hoe

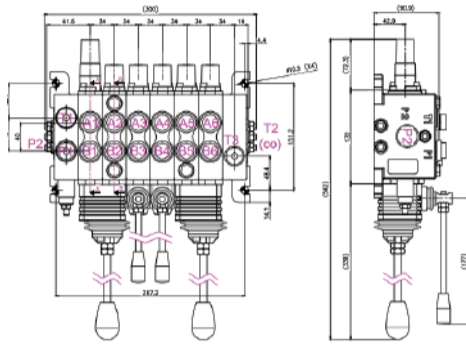
- All tractor which can be mounted on
- An excellent compatibility, powerful durability
- Multipurpose multifunction back hoe



Features

Bucket

Various size options are provided so that the bucket can be exchanged according to the work characteristics, 9", 12", 16", 24" and 36" bucket options are available for each model



45L capacity LCB type high end main control valve for strong work performance is applied



The joystick operation method and convenient operation part are designed. Due to this, operability without fatigue is maintained even when working for a long period of time

Thumb

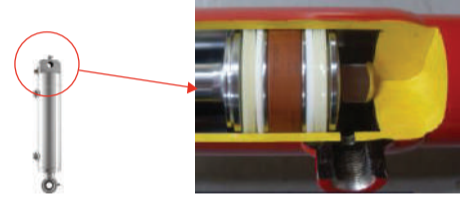
Digging work is possible with the thumb folded, When using a thumb, it can be easily adjusted to work with tongs, Stones and wood types can be moved and crushed with strong force

Street pad

Provides a street pad to prevent damage to the floor during work, Can be used on roads or soft ground



For smooth operation, a nozzle type orifice is applied to realize smooth and powerful performance during work



Durable hydraulic cylinder is applied to show unchanging durability even in long term work



Field Test



Impact Test



Digging force

Specifications

Model	Agricultural Machinery	
	Back hoe	
	Name	BY65P
Bucket	Loading height - Bucket at 60° (mm)	2286
	Bucket cylinder digging force (kgf)	1220
	Bucket standard	16
	Bucket rotation (°)	169
	Stabilizer spread (downward position)	1960
	Stabilizer spread (upward position)	1650
	Undercut	720
	Dipperstick cylinder digging force (kgf)	850
	Shipping weight (kg)	540
	Hydraulic pressure requirements	165
	Digging depth (mm)	2010
	Swing arc (°)	180
	Reach from center line of swing pivot (mm)	2754
	Transportation height - maximum (mm)	2164
	Transportation overhung (mm)	1119
	Recommended tractor power (HP)	35 - 50

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Back Hoe

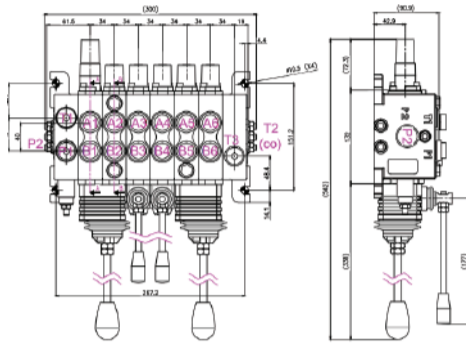
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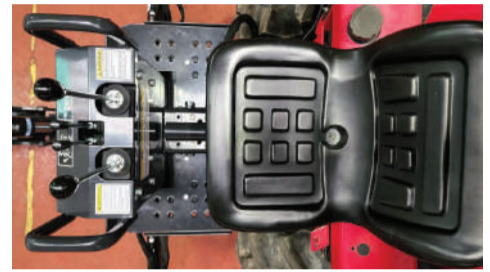
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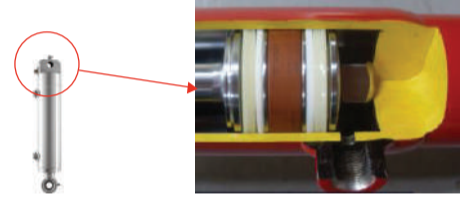
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Field Test



Impact Test



Digging force

Specifications

Model	Agricultural Machinery	
	Name	
	Back hoe	
	BY75P	
Bucket	Loading height - Bucket at 60° (mm)	2406
	Bucket cylinder digging force (kgf)	2066
	Bucket standard	16
	Bucket rotation (°)	175
Stabilizer spread (downward position)		2256
Stabilizer spread (upward position)		1737
Undercut		793
Dipperstick cylinder digging force (kgf)		1148
Shipping weight (kg)		608
Hydraulic pressure requirements		165
Digging depth (mm)		2197
Swing arc (°)		180
Reach from center line of swing pivot (mm)		3140
Transportation height - maximum (mm)		2284
Transportation overhung (mm)		1189
Recommended tractor power (HP)		52 - 60

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