GLOBAL DEALER NETWORK>>>

STRONG PRESENCE, UNMATCHED SUPPORT

LiuGong has established a solid infrastructure with over 12,000 employees worldwide, 320 dealers, 7 regional parts depots and 9 strategically placed global offices to support its dealers and serve its customers.

Always a LiuGong dealer near you.

LIUGONG
TOUGH WORLD. TOUGH EQUIPMENT.

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Version 1.1
01/2016 Designed by LiuGong

Engine	Cummins QSM11
Gross Power	298 kW (399.6 hp)
Net Power	280 kW (375.5 hp)
Maximum Digging Depth	6,521 ~ 7,860 mm
Bucket Capacity	2.2 ~ 3.2 m^3
Operating Weight	45,500 ~ 46,500 kg

950E

EXCAVATOR

LiuGong

TOUGH WORLD. TOUGH EQUIPMENT.


950E

BUILT TO OUTLAST

EXCELLENT EFFICIENCY AND FUEL CONSUMPTION

ADVANCED HYDRAULIC SYSTEM

Proven negative flow hydraulics have optimize the main control valve, improved the speed of front end cylinders, while cutting down the hydraulic system's damper loss, leading to much better working efficiency. The pilot valves matching with the main control valve offer precise control.

ENGINE

Equipped with a fuel efficient world- class Cummins QSM11 engine meets stage IIIA/EPA Tier 3 emission standard. The QSM11 series come with a Cummins patented turbocharger, which continuously varies the airflow boost to precisely match engine and load demand for optimal performance.

6 WORKING MODES

Power, Economy, Fine, Lifting, Breaker, Attachment.
The LiuGong E series excavator features 6 selectable working modes that optimize performance and fuel consumption to your specific conditions.

INTELLIGENT POWER CONTROL

The advanced IPC (Intelligent Power Control) system makes full use of engine oil consumption characteristics, matching the engine-hydraulic pump to achieve high efficiency, low and economical fuel consumption.

AUTO-IDLE SPEED FUNCTION

Automatic speed reduction in neutral can reduce fuel consumption and noise. Automatic velocity control is divided into two levels: if in 1second, no hydraulic request signal is detected, the engine speed will automatically reduce by 100 RPM; If after 3 seconds no hydraulic signal is detected, the engine speed will drop to idle speed. When the system detects the hydraulic signal, the engine will immediately return to the current throttle setting speed.

HYDRAULICALLY-DRIVEN COOLING FAN

The speed of hydraulically-driven cooling fan regulates the temperature of the hyfraulic oil or coolant in the radiator to reduc fuel consumption and noise. You can clean the radiators by reversing direction of rotation.

RELIABLE AND SUSTAINABLE STRUCTURES

BOOM AND ARM

They are built with internal baffle plates and stress-relieved for added durability, constructed with thick plates of high tensile strength steel, these structures are designed with large cross sectional areas and large one piece steel castings in the boom and arm supports which exhibits long term durability and high resistance to bending and torsional stress. In addition they are inspected with ultrasound to reduce the defects and ensure the quality and reliability.

PLATFORM

High cross section of h beam structure is used in the main platform, high strength, good rigidity, high reliability.

With a height of 228 mm, the high beam design platform is 11.4% higher than similar models leading to greater strength in the structure.

The welding platform with its collision protection structure improves the service life of the platform.

UNDERCARRIAGE

The undercarriage of machines are built with the mature technology of X type high strength box type walking frames. Long track beam, crawler system are more stable and reliable. All of these contribute significantly to its outstanding stability and durability.

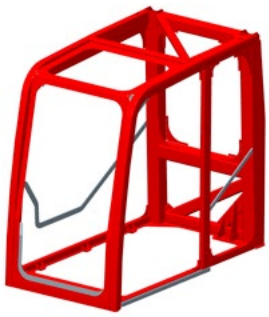
USER-FRIENDLY WORKING ENVIRONMENT

LARGE CAB
With a height increase 20 mm, length increase 20 mm, room for feet increase 29 mm, the space of cab has increased 8.5% over previous models and leads to more operator comfort and controllability .

BIG TOP SKYLIGHT
The skylight area of E series has increased 28.5%.

ROPS CAB
The ROPS cab meets ISO 12117-2 safety standards for increased peace of mind in the unlikely event of machine roll over.

SIDE HANDRAILS AND ANTI-SLIP TAPE
Handrails provide safe and easy access to the upper structure.



ROPS Cab

BROAD FIELD OF VISION

With a 15% increase in the height of vision and a 10% increases in the area of right side glass, the E series cab gives a field of vision that lets you see more and do more.

POSITIVE PRESSURE CAB

In order to prevent dust in the cab, we use high sealing pressure cabin. When using the air conditioning the the internal pressure is increased to prevent dirt from entering the cab.

LARGE LCD MONITOR

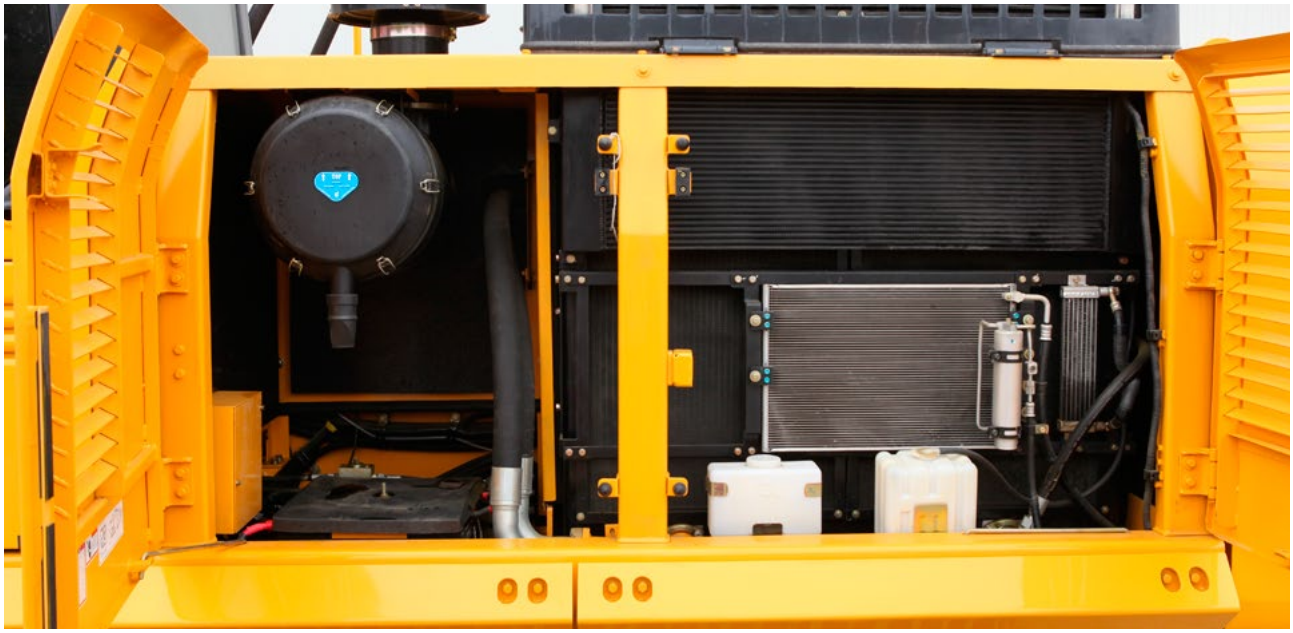
The color LCD monitor displays machine information including working gear, hydraulic oil temperature, hydraulic pressure, service interval alerts, and fault alarm.

OTHER EQUIPMENTS IN THE CAB





OPTIMAL MAINTENANCE FEATURES



ENGINE FILTER
The engine oil filter and the fuel filters are integrated into the right side of the machine for easy access, easy maintenance and service.

PILOT HYDRAULIC FILTER
The pilot hydraulic filter is located at the side of hydraulic tank for easy access, easy maintenance and service.

PRESSURE SWITCHES AND SENSORS
Pressure switches and sensors concentrated in a block.

A/C FILTER AND FUSE BOX
Located in the left side of cab, you can change or clean after you open the service access.

AIR FILTER
Inside and outside air filters can be removed from ground level for simple and convenient cleaning.

WHERE YOU NEED IT. WHEN YOU NEED IT

PROFESSIONAL ADVICE
According to your job requirements, we can give you expert advice to help you make the right machine choices.

PARTS SUPPORT
Using genuine LiuGong parts is key to keeping your costs low and your machine in top working order. We have a worldwide parts network that can supply you with parts when you need them to maximize your machines uptime and to help you save money.

AFTER SALES SERVICE
With over 12,000 outlets, as a customer of LiuGong, you can feel confident that our dealers and regional offices will be there to support you with training, service and maintenance needs throughout the life of your machine.

VERSATILE ATTACHMENTS

BUCKET

QUICK COUPLER

SHEAR

BREAKER

STANDARD EQUIPMENT

ENGINE SYSTEM
- Cummins engine, turbocharged, 6 Cylinder 4 stroke water cooled, Diesel Engine
- Auto-idle speed control
- Air filter with pre-cleaner
- Engine oil filter
- Pre-filter with water separator
- Radiator, oil cooler and intercooler
- Engine overheat prevention system

HYDRAULIC SYSTEM
- Power boost
- Boom and arm regeneration circuits
- Pilot oil filter
- Auto travel speed change
- Load holding valve
- Pilot control shut-off lever
- Swing with anti-reverse function

OPERATOR STATION
- IPC (Intelligent Power Control) System
- 6-working mode selection system:Power Mode , Economy Mode, Fine Mode, Lifting Mode, Breaker Mode, Attachment Mode
- Highly pressurized and tightly sealed cab with all-around visibility, large roof window with slide sun shade, front window wiper, removable lower window
- Air conditioner, heater, defroster
- AM/FM Radio with MP3 audio jack
- Color LCD monitor with alarms, filter/fluid change, fuel rate, water temperature, work mode, fault code, working hour, etc
- Glass-breaking hammer
- Ashtray, cigarette lighter
- Cup holder
- Floor mat
- Storage box
- Front glass lower guard

UPPERSTRUCTURE
- Rear view mirror (right & left side)
- 2 batteries
- One key for door locks, cap locks
- Fuel gauge
- Hydraulic oil level gauge
- Storage box
- Swing parking brake
- Boom lights
- Exterior lights integrated into storage box

UNDERCARRIAGE
- 600 mm triple grouser track-shoes
- 2 track frame under-guards (each-side)
- Towing eye on base frame

FRONT ATTACHMENTS
- 6,500 mm boom and 2,550 mm arm
- 3.2 m^3 (SAE, heaped) bucket

OPTIONAL EQUIPMENT

ENGINE SYSTEM
- Electrical fuel refilling pump
- Automatic engine warm-up system

HYDRAULIC SYSTEM
- Security valves (2 on boom and 1 on arm)
- Control pattern change valve
- Hammer line
- Hydraulic quick coupler line 2 way aux. line
- Attachment rotating line
- PTO pump

OPERATOR STATION
- Power outlet 24 V to 12 V converter
- 4 outside LED cab top lights
- Rotating beacon
- Rear view camera
- Suspension seat with height adjustable arm rests and retractable seat belt
- Travel alarm
- Chair heating
- Seat belt alarm

UPPERSTRUCTURE
- Crash-proof beam
- Roll-Over Protective Structures (ROPS)
- Falling-Object Protective Structures (FOPS)
- Operator Protective Guards (OPG)

UNDERCARRIAGE
- 700, 800, 900 mm track-shoes

FRONT ATTACHMENTS
- Hydraulic breaker
- Hydraulic quick coupler
- Ripper shank
- Grapple
- 2.6 m^3 bucket with 2900mm arm 3.6 m^3 bucket

SPECIFICATIONS

ENGINE	
Emission Regulation	Tier 3 / Stage IIIA
Model	Cummins QSM11
Type	6-cylinder, 4-stroke, in line, water-cooled, turbocharged, diesel engine.
Gross Power	298 kW (399.6 hp) @ 1,800 rpm
Net Power	280 kW (375.5 hp) @ 1,800 rpm
Maximum Torque	1,898 N • m @ 1,400 rpm
Bore x Stroke	114 x 135 mm
Displacement	10.8 L

DRIVE AND BRAKES	
Driven by a one-piece two-gear piston hydraulic motor and reducer with small volume and strong traction, the motor and hydraulic pipelines are hidden in the track mechanism to prevent damage from rugged road surfaces, parking brake and shock-absorbing valve are installed inside the motor, ensuring stable travelling and parking as well as reliable braking.	
Max. Travel Speed	High: 5.5 km/h Low: 3.3 km/h
Gradeability	70 %
Drawbar Pull	386 kN

SWING SYSTEM	
The high- torque piston swing motor, with integral spring set, and automatic hydraulic release swing brake, is bolted directly to the swing reduction planetary swing gear box. The swing brake automatically resets for safer operation within five seconds of the swing function lever being brought to neutral. This insures safe travel and parking conditions.	
Swing Speed	8.5 rpm

HYDRAULIC SYSTEM	
Main Pump	Two variable displacement piston pumps
Main Pumps Total Flow	2×380 L/min
Relief Pressure, main	323 bar
Relief Pressure, boost	353 bar
Pilot Pump Flow	28.5 L/min

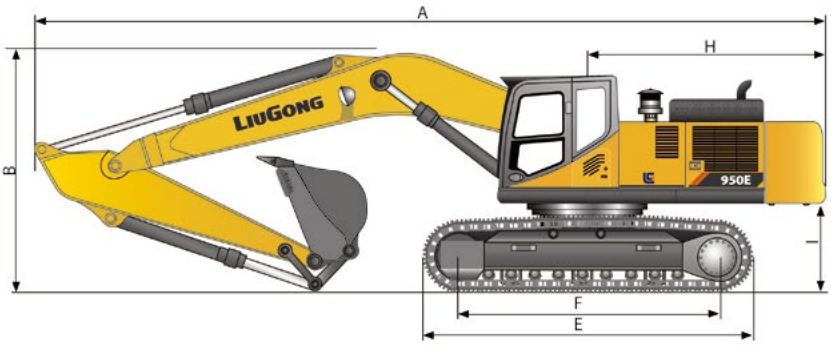
UNDERCARRIAGE	
Center Frame	X-Frame
Track Adjustment	Hydraulic
Number of Carrier Rollers	2 each side
Number of Track Rollers	9 each side
Number of Idler Rollers	1 each side
Number of Shoes	53 each side
Width of Track Shoes	600 mm

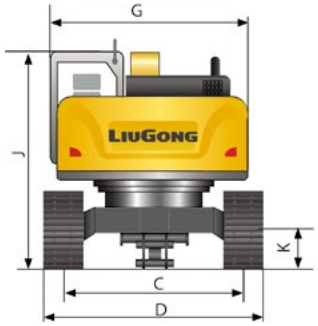
ELECTRIC SYSTEM	
System Voltage	24 V
Batteries	2 x 12 V

SERVICE CAPACITIES	
Fuel Tank	650 L
Engine Oil	38 L
Final Drive (each)	15 L
Swing Drive(each)	5.3 L
Cooling System	50 L
Hydraulic Reservoir	290 L
Hydraulic System Total	540 L

OPERATING WEIGHT (APPROXIMATION)	
The operating weight includes 6,500 mm boom, 2,550 mm arm, SAE heaped 3.2 m^3 bucket, 600 mm shoes, operator, lubricating oil, cooling liquid, full fuel tank, and standard configuration.	
Shoe Ground Pressure	84.1 kPa
Operating Weight	46,500 kg

DIMENSIONS





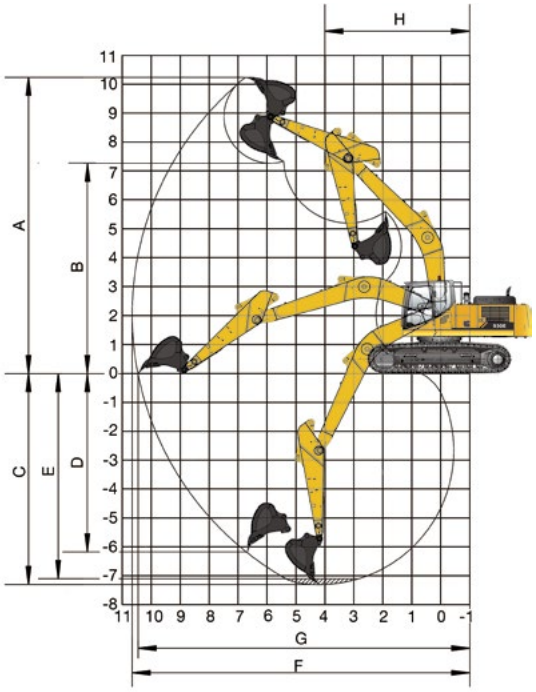
Unit: mm

Boom Length	Boom Length	7,060	7,060	6,500
Arm Length	Arm Length	3,380	2,900	2,550
A	Overall Length	12,062	12,071	11,515
B	Overall Height of Boom	3,660	3,750	
C	Track Gauge	2,740	2,740	
D	Overall Width	3,340	3,340	
E	Length of crawler	5,035	5,256	
F	Track Length on ground	4,036	4,257	

G	Overall Width of Upper structure	3,170	3,170
H	Tail Swing Radius	3,640	3,640
H'	Rear–end Length	3,640	3,640
I	Counterweight Ground clearance	1,324	1,324
J	Overall Height of Cab	3,307	3,307
K	Min. Ground clearance	532	532
L	Track Shoe Width	600	600

Unit: mm

Boom length	Boom length	7,060	7,060	6,500	6,500
Arm length	Arm length	3,380	2,900	2,550	2,550
Bucket capacity	Bucket capacity	2.2 m³	2.6 m³	3.2 m³	3.6 m³
A	Dig height	10,785	10,618	9,977	
B	Dump height	7,520	7,578	7,038	
C	Dig depth	7,860	7,380	6,521	
D	Dig depth of vertical	6,435	6,011	5,024	
E	Depth of 8 bottom	7,715	7,218	6,337	
F	Max reach	12,020	11,585	10,625	
G	Reach at ground level	11,810	11,368	10,388	
H	Min swing radius	5,015	5,052	4,645	
ISO	Bucket Breakout Force	288 kN	288 kN	280 kN	
	Arm Breakout Force	225 kN	260 kN	270 kN	



SPECIFICATIONS >>>

Note:

1. ※Indicates the load is limited by hydraulic capacity rather than tipping capacity.
2. The above rated loads are in compliance with ISO 10567 hydraulic excavator lift capacity rating standard. They do not exceed 87% of hydraulic lifting capacity or 75% tipping load.
3. Ratings at bucket lift hook.

Rating over-side

Rating over-front

Bucket: SAE 2.2 m³, 2250 kg Boom: 7,060 mm Arm: 3,380 mm Shoes: 600 mm, Counterweight: 9,000 kg

Lift Point Height		3 m		4 m		5 m		6 m		7 m		8 m		9 m		10 m	
7 m	kg											12,750	8,450	10,490	6,950		
6 m	kg									※14,090	10,200	12,620	8,330	10,470	6,920		
5 m	kg							※16,630	12,410	※14,950	9,920	12,420	8,160	10,360	6,830		
4 m	kg					※21,650	15,370	※18,150	11,910	14,920	9,600	12,200	7,950	10,230	6,710	8,710	5,710
3 m	kg					※23,940	14,570	18,360	11,420	14,550	9,280	11,960	7,740	10,080	6,570	8,640	5,640
2 m	kg					23,790	13,960	17,880	11,000	14,230	9,000	11,750	7,550	9,940	6,440	8,560	5,570
1 m	kg					23,340	13,600	17,530	10,700	13,980	8,770	11,570	7,380	9,820	6,330	8,490	5,510
0 m	kg			※32,110	18,630	23,130	13,430	17,310	10,520	13,80	8,620	11,440	7,270	9,730	6,260		
-1 m	kg			※30,840	18,710	23,080	13,380	17,210	10,430	13,710	8,540	11,370	7,210	9,700	6,220		
-2 m	kg	※33,660	31,360	※29,130	18,850	23,140	13,430	17,210	10,430	13,690	8,520	11,360	7,200	9,720	6,250		
-3 m	kg	※31,130	※31,130	※26,870	19,060	※22,980	13,560	17,300	10,510	13,760	8,580	11,430	7,260				
-4 m	kg	※27,410	※27,410	※23,880	19,360	※20,660	13,770	17,490	10,670	13,920	8,720	11,620	7,430				
-5 m	kg	※22,340	※22,340	※19,890	19,780	※17,390	14,080	※14,900	10,930	※12,140	8,990						

Bucket: SAE 2.6 m³, 2,212 kg, Boom: 7,060 mm, Arm: 2,900 mm, Shoes: 600 mm, Counterweight: 9,000 kg

Lift Point Height		3 m		4 m		5 m		6 m		7 m		8 m		9 m	
7 m	kg									※12,120	10,600	※11,570	8,610		
6 m	kg									※12,600	10,390	※11,770	8,510	※11,270	7,070
5 m	kg					※17,390	16,310	※14,880	12,580	※13,260	10,110	※12,140	8,350	11,290	7,010
4 m	kg					※19,360	15,430	※16,060	12,070	※14,000	9,790	※12,60	8,150	11,170	6,900
3 m	kg							※17,140	11,590	※14,710	9,480	※13,050	7,950	11,030	6,780
2 m	kg							※17,950	11,210	※15,280	9,220	12,880	7,770	10,910	6,660
1 m	kg					※22,230	13,890	※18,360	10,960	15,370	9,020	12,720	7,630	10,810	6,570
0 m	kg					※21,860	13,800	※18,360	10,820	15,230	8,900	12,610	7,530	10,750	6,520
-1 m	kg			※24,260	19,420	※21,080	13,830	※17,950	10,780	15,170	8,850	12,570	7,500	10,750	6,520
-2 m	kg	※24,140	※24,140	※22,790	19,580	※19,900	13,930	※17,140	10,830	※14,790	8,870	12,610	7,530		
-3 m	kg	※22,600	※22,600	※20,750	19,820	※18,250	14,100	※15,840	10,950	※13,650	8,970	※11,50	7,650		
-4 m	kg	※19,500	※19,500	※17,980	17,980	※15,970	14,360	※13,890	11,160	※11,720	9,180				
-5 m	kg			※14,180	14,180	※12,700	12,700	※10,760	10,760						

Bucket: SAE 3.2 m³, 2,575 kg, Boom: 6,500 mm, Arm: 2,550 mm, Shoes: 600 mm, Counterweight: 9,000 kg													
Lift Point Height													
		3 m		4 m		5 m		6 m		7 m		8 m	
7 m	kg									※15,750	10,530		
6m	kg							※17,320	13,110	※16,030	10,410	13,630	8,460
5m	kg					※21,220	16,540	※18,440	12,720	※16,630	10,190	13,550	8,390
4 m	kg					※23,430	15,740	※19,720	12,260	16,390	9,930	13,380	8,240
3 m	kg					※25,370	15,010	20,330	11,830	16,070	9,650	13,200	8,080
2 m	kg					※26,550	14,500	19,900	11,470	15,800	9,420	13,030	7,930
1 m	kg					26,320	14,220	19,610	11,220	15,590	9,240	12,910	7,820
0 m	kg					26,200	14,130	19,460	11,100	15,480	9,140	12,840	7,760
-1 m	kg			※29,190	19,760	※25,140	14,150	19,430	11,070	15,450	9,120	12,850	7,770
-2 m	kg	※28,930	※28,930	※26,830	19,960	※23,340	14,280	19,520	11,150	15,530	9,180		
-3 m	kg	※25,650	※25,650	※23,600	20,280	※20,720	14,500	※17,770	11,330	※14,630	9,380		
-4 m	kg			※19,100	※19,100	※16,840	14,860	※13,930	11,670				

Bucket: SAE 3.6 m³, 2,783 kg, Boom: 6,500 mm, Arm: 2,550 mm, Shoes: 600 mm, Counterweight: 9,000 kg													
Lift Point Height													
		3 m		4 m		5 m		6 m		7 m		8 m	
7 m	kg									※15,550	10,330		
6 m	kg							※17,120	12,910	※15,830	10,210	13,430	8,260
5 m	kg					※21,020	16,340	※18,240	12,520	※16,430	9,990	13,350	8,190
4 m	kg					※23,230	15,540	※19,520	12,060	16,190	9,730	13,180	8,040
3 m	kg					※25,170	14,810	20,130	11,630	15,870	9,450	13,000	7,880
2 m	kg					※26,350	14,300	19,700	11,270	15,600	9,220	12,830	7,730
1 m	kg					26,120	14,020	19,410	11,020	15,390	9,040	12,710	7,620
0 m	kg					26,000	13,930	19,260	10,900	15,280	8,940	12,640	7,560
-1 m	kg			※28,990	19,560	※24,940	13,950	19,230	10,870	15,250	8,920	12,650	7,570
-2 m	kg	※28,730	※28,730	※26,630	19,760	※23,140	14,080	19,320	10,950	15,330	8,980		
-3 m	kg	※25,450	※25,450	※23,400	20,080	※20,520	14,300	※17,570	11,130	※14,430	9,180		
-4 m	kg			※18,900	※18,900	※16,640	14,660	※13,730	11,470				