



<b>Engine</b>	Perkins 2806J
<b>Net Power</b>	433 kW (581 hp / 589 ps) @ 2,000 rpm
<b>Operating Weight</b>	94,800 kg
<b>Bucket Capacity</b>	5.6 m <sup>3</sup>

# 995F EXCAVATOR

# OUR NEW F-SERIES. THE BEST GETS EVEN BETTER

We've taken the very best insight from our E-Series machines, combined that with extensive R&D and customer intelligence to deliver the **F-Series**, a new range of state-of-the-art excavators from 1.5 tonnes to 95 tonnes, designed around the operator. So when the work gets tough, the 995F gets tougher.

## THE NEW 995F THE BEST PLACE TO WORK A 12-HOUR SHIFT

You know all about working hard in the toughest places - so do we. With over 100,000+ LiuGong excavators currently in the field, clocking up over 1 billion+ productive hours we have real insight into what professional operators really want from their machines.

In tough, dusty applications like mining, where rock breaking and heavy loading are the day-to-day work, machines have got to be durable, reliable but above all, they've got to be highly productive.

## INSPIRED BY YOU

The New 995F delivers all this and more. We've listened to you and used this valuable insight to design a machine that professional operators are going to want to get in and stay in.

No matter how tough or difficult the conditions, you are going to feel right at home in the New 995F. It's more than a machine; it's a teammate you can rely on.



## TOUGH FACTS

### OUR NEW 995F DELIVERS ON 3 ESSENTIALS:

1



HIGH PRODUCTIVITY  
& EFFICIENCY

2



MAXIMIZED  
UPTIME

3



UNMATCHED OPERATOR  
COMFORT & SAFETY

## AWARD WINNING DESIGN

Our UK-based design team has invested thousands of man hours to really understand how our machines are used every day. This insight shapes our innovative approach to product design. Our design team recently won a prestigious Red Dot Award for our D-Series Grader and our New F-Series shares this award-winning design DNA.

## TOUGH RESEARCH AND TESTING

Finding tougher, smarter, safer and more cost-effective ways of working matters to you. It matters to us too. Our new Global Research & Development Centre is a great example of this customer focused approach. We've established an international team of industry experts, backed up with the latest world-class technology, all focused on delivering greater value to you.

## TOUGH QUALITY STANDARDS

When it comes to quality, we let our actions speak for themselves.

We follow a rigorous Six Sigma methodology and consistently achieve ISO 9001 standards.

# DESIGNED FOR YOU

Take a walk around the New 995F and you will see the difference. It's a big, tough machine that's high on productivity, reliability and operator safety and comfort.



## Highest Productivity & Efficiency

### XTRA PRODUCTIVITY

- ▲ Powerful stage V Perkins 2806J engine
- ▲ 496 kN digging force
- ▲ Fully electro-hydraulic system
- ▲ Economy (E) mode, Standard (S) mode and Power (P) mode

## Easy Access Maintenance

### XTRA EASY

- ▲ Wide opening engine covers
- ▲ Surrounding catwalk
- ▲ Large steps with handrails and anti-skid surface
- ▲ Centralized lubrication points

## Cool, Clean & Comfortable

### XTRA COMFORT

- ▲ Luxury heated air suspension seat
- ▲ Pressurised cabin with 10 surrounding A/C vents
- ▲ Bluetooth media system
- ▲ Cupholder, phone charging and coolbox.

## Reduce Cost & Extend Performance

### XTRA CONTROL

- ▲ Auto idle, auto shutdown & auto boost
- ▲ Boom floating function
- ▲ Perfectly matched mechanical, electrical and hydraulic systems
- ▲ Hydraulic reversible fans

## Robust Structure

### XTRA TOUGH

- ▲ Reinforced boom and arm
- ▲ Tough full length track guide
- ▲ Heavy duty rock bucket, 5.6 m<sup>3</sup>
- ▲ 650 mm HD double grouser tracks

# WORK SMARTER & HARDER FOR LONGER

Whatever the job, our New 995F will work smarter and harder for longer to get that job done. From removing the overburden, to creating access roads. From mining applications, to extracting, breaking and handling materials to reclaiming the site at the end of its life. No matter the job, the 995F delivers shift after shift.

## WORKS HARDER FOR LESS

Tough environments demand the highest productivity and efficiency from machines. With greater digging force, faster cycle times and greater fuel economy the New 995F delivers. With the widest possible range of attachments including hammers, and rock buckets. The New 995F provides multi-functional performance and delivers the maximum return on investment.

## PUTTING YOU FIRST

The New 995F is a highly productive machine, but it's more than that. It's a safe and comfortable place to work, too. Our design team have focussed on creating the very best working environment, so the operator can work harder in comfort, for longer. A Level II FOPS protected pressurised cab, all-round visibility and the highest levels of comfort and instrument ergonomics create a place where you will want to work.



## MAKE EVERY SECOND COUNT

In your tough world time is money and down-time is lost revenue. The New 995F has been designed to make every second count. From productivity benefits like faster cycle times to improving reliability by strengthening key components such as the boom and the arm.

In designing the New 995F, we've shared your desire to get the most productivity out of every day.

✓ GREATER DIGGING FORCE

✓ FASTER CYCLE TIMES

✓ GREATER FUEL ECONOMY





# HIGHEST PRODUCTIVITY & EFFICIENCY

A new, tougher machine that is simple to use and is safe and comfortable for the operator, the New 995F appears to have it all. But ultimately, this tough new machine will be judged on its working and earning potential and its overall life cost. In both these vital areas of productivity and efficiency, the New 995F excels.

## CLASS LEADING DIGGING FORCE

To achieve fast cycle times and lowest cost per tonne when moving materials, you've got to have digging force that is up to the job.



Punching a massive **496 kN** of digging force, the New 995F easily out-performs any competitive machine in its class.

The source of this awesome power comes from a combination of a powerful engine, superior hydraulic system and lightweight working tools.

## DO MORE IN LESS TIME

Delivering lowest cost per tonne is about doing more work in less time for less cost. With class-leading digging force, the 995F has a clear advantage. This advantage is capitalised on with the new fully electro-hydraulic system in conjunction with the 995F's high power, high torque, EU Stage V emission certified Perkins 280J engine. This combination of force, hydraulics and power simply allows you to do more for less.

## NEW REVERSAL FAN

Keeping the machine free from dust and contamination is a tough job, but the New 995F makes this a little easier. The machine comes with a new, side-by-side cooling system with easy-to-clean cores, and a smart variable-speed fan that can reverse to efficiently blow out any unwanted debris.

## HIGHLY EFFICIENT HYDRAULICS

Our hydraulics system has been optimized for operational performance. The large displacement hydraulic pump reduces fuel consumption whilst ensuring working efficiency at a low engine speed. The electronically controlled hydraulic pumps and valves provide hydraulic oil as it is needed, reducing heat loss and further reducing fuel consumption.



## RIGHT POWER FOR THE JOB

To make work easy, the 995F's Integrated Work Mode allows you to select the best work mode for the job in hand. With a choice of three modes, each designed to match engine speed, pump flow, and system pressure to the chosen application, you can be sure that you are always working in the most cost effective way:



**Economy (E) mode** – for light work



**Standard (S) mode** – for standard operation



**Power (P) mode** – for heavy duty



## MAXIMISING PRODUCTIVITY THROUGH EFFICIENCY.

With the new 995F, you'll save time and money without compromising on power and efficiency.



# REDUCE COST & EXTEND PERFORMANCE

The 995F works hard to deliver the best return for your investment by reducing overheads on fuel through smart engine technology to ensure maximum efficiency, to state-of-the-art engine oil and hydraulic fluid filters increasing performance by thousands of hours.



Using our **LONG-SERVICE-LIFE HYDRAULIC OIL** can save money and increase performance – this state-of-the-art lubricant extends the oil replacement cycle to **5,000 HOURS**.



Our new super-fine hydraulic fluid filter separates out even the smallest particles extending its replacement cycle to **1,000 HOURS**.



## AUTO IDLE, AUTO SHUTDOWN AND POWER BOOST

For the most efficient operation, you need to save as much fuel, as often as possible without compromising performance. The Auto shutdown function follows an adjustable timer which monitors when the isolation lever is down and the machine is not in use to shut off the engine and save fuel + reduces machine idle hours. The Hydraulic Boost function can be operated manually by the operator via the joystick or automatically through the hydraulic sensing to raise hydraulic power by 9% when needed to break through tough ground.



## KEEPING YOUR FUEL COSTS LOW

Fuel is one of the biggest overheads, so every saving makes a difference. The New 995F is powered by a smart Perkins 2806J Stage V emission certified engine. This Inline 6-cylinder, direct injection turbo-charged engine actively looks for ways to save fuel. During the work cycle, it automatically regenerates itself ensuring you have the power you need whilst saving fuel. The engine is perfectly matched to mechanical, electrical and hydraulic systems to get the most out of every drop of fuel.



## LONGER SERVICE LIFE. LOWER FUEL CONSUMPTION.

The 995F delivers on site as well as it does on the balance sheet.



# MAXIMIZED UPTIME

The New 995F is designed to deliver maximum uptime, shift after shift. With toughness and durability built into the heart of machine, the 995F works harder for longer in the toughest of jobsites.

## EXTREME TESTING

Toughness and durability are key to maximizing uptime. We don't just talk about toughness – we prove it with thousands of hours' worth of reliability testing. All the key components on the New 995F have been tested to the extreme in our state-of-the-art testing facility.



**Our boom arm for example, undergoes a gruelling Swing Test to prove its durability in the toughest applications.**

## HEAVY-DUTY ROCK BUCKET



Our new heavy-duty rock bucket is built with super-strong, wear resistant steel plates. Perfectly matched for rigorous quarrying and mining applications it has long-life built-in.

You have a choice of high strength, wear resistant parts such as teeth, adapters, segments, side cutters and shrouds to suit your application.

## REINFORCED BOOM AND ARM



Breaking and lifting for 12 hours a day is an extreme workout for the boom, arm and hydraulics. So we've built-in extra strength and protection to keep these important components in peak condition. The super-strong boom design benefits from integrally forged front and rear supports.

This one-piece design increases strength and reduces welding and the potential for deformation. In addition, the front and rear plates have also been reinforced. To support the boom, the arm has been strengthened with reinforced plates and ribs.

## ADVANCED HYDRAULICS



The 995F's advanced variable hydraulic control system allows the machine to changed the pressure and distribution of flow according to the application and conditions helping to improve efficiency, productivity, and durability.

The Auxiliary Pipeline Flow function on the LCD screen also allows you to set a specific flow during breaking to achieve greater efficiency. Externally strengthened hydraulic hoses easily handle high operating temperatures. The pipes' layout has been redesigned and rubber gaskets added to prevent damage, reduce friction, and increase the service life of the hoses.

## BOOM FLOATING FUNCTION

Boom float helps the operator to reduce stresses induced by activities such as breaking rock or grading a hard surface. By using the boom's weight to cut off the oil intake, the energy output is reduced helping to save fuel and support long term durability.



## REINFORCED UNDERCARRIAGE STRUCTURE

The undercarriage is strengthened to provide excellent reliability and durability when working on rocky ground or blasted rock. An improved greased track link between pins and bushing reduces stress, reduces noise and reduces wear. We've also added a Full-covered Track Guard to maintain track alignment and improve the machine's overall performance.

## KEEPING YOU ON TRACK

Double grouser shoes with higher, tougher and thicker ribs provide better longevity, stability and grip.

# AT YOUR SERVICE

Maximizing uptime is about toughness and durability, but it's about maintenance too. The faster and easier a machine is to maintain, the more productive it is. For speed and simplicity, the engine covers, fuelling and maintenance access points have been designed to make daily checks and maintenance pain free so you can get back to work faster.



## CENTRALIZED LUBRICATION POINTS

To save valuable time, we have centralized the lubrication points on both the arm and boom to make them quicker and easier to maintain.

## SAFER ACCESSIBILITY

Access to the cab is safer than ever with the wider catwalk, larger steps with handrails and anti-skid surface. With these updated features, maintenance and servicing can be more efficient than ever.



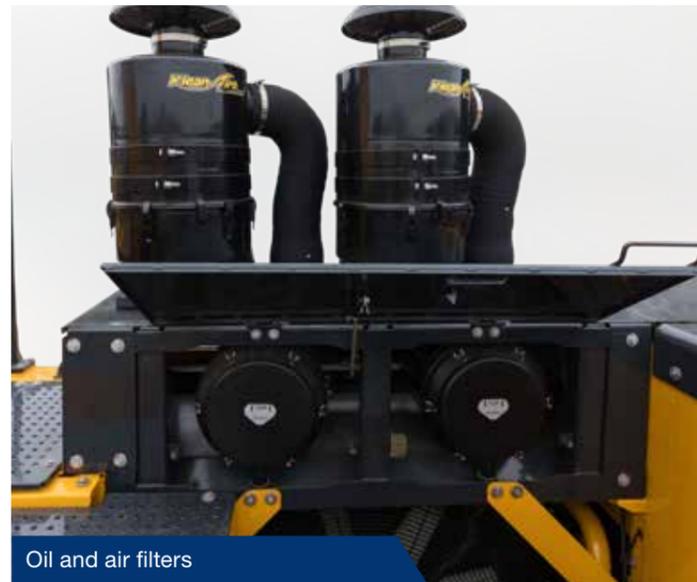
### EXTENDED AIR FILTER LIFE

Tough, dusty conditions give air filters a real workout. The oil bath air pre-filter on the New 995F protects, cleans and extends the filter life to **1,000 HOURS**.

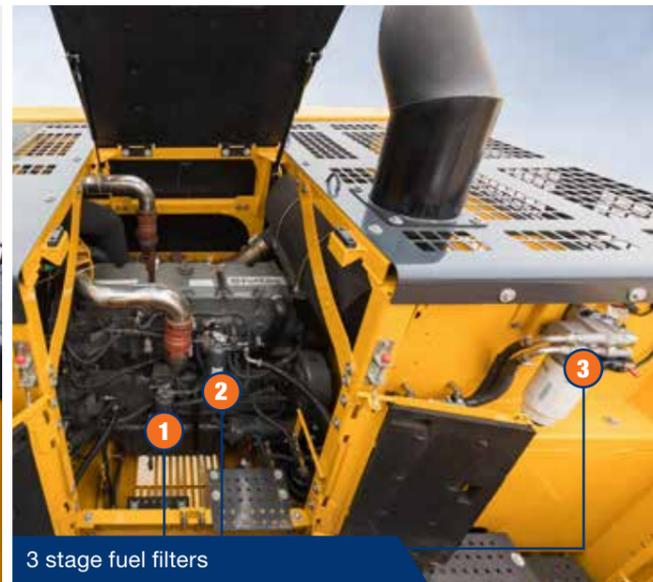
### EASY DOES IT

Large, fully opening side covers give easy access to air filters, oil filters, fuel prefilter, dipstick, hydraulic tank and oil fill cap, not to mention the engine, main pump and radiator.

To make routine checks and maintenance even faster and safer, oil filters and fuel filters are all at ground level.



Oil and air filters



3 stage fuel filters

## PROACTIVE DAMAGE PREVENTION

The new Hydraulic Fluid Filter Restriction Indicator will help prevent contamination becoming a big problem. When the air filter becomes blocked with unwanted particles, the air filter pressure switch sends a signal to the LCD monitor. A warning light appears on the cabs LCD screen, letting the operator know maintenance is needed. It's a smart active technology designed to prevent unwanted downtime and cost.

## AUTOMATIC FUEL AND LUBRICANT SYSTEMS

On-site refuelling without a fuel truck or regular fuel pump is simple and instantaneous with our electric refuelling pump attachment. The pump detects when refuelling is required and simply takes fuel from a barrel or fuel storage reservoir, automatically shutting off when the fuel tank is full. We also offer an Auto Lube System as an option, helping you reach all the greasing points quickly and easily.



## iLINK LIUGONG'S TELEMATICS SYSTEM



iLink gives you the total picture of your machines' activities. You can see each machine's precise working location, the exact working and engine hours, oil pressure and total fuel consumption, all in easy to read status reports. This information is vital in helping you improve performance and productivity.

- ### iLINK PROTECTS

You can use iLink to set both Geo and Time fencing allowing machines to operate safely in a clearly defined area for a pre-determined period of time. You can also immobilize and remobilize your machines remotely.
- ### iLINK IS PROACTIVE

iLink constantly monitors key components and provides warnings and alerts should faults occur. Remote diagnostics allow the technician to understand the problem quickly and save time by fixing it remotely or by reducing call-out time on site.
- ### PLUG AND PLAY SIMPLICITY.

iLink is available for all Liugong excavators and wheel loaders. Our single SIM solution provides worldwide data transmission at a fixed, affordable price.



# SUPERIOR OPERATOR COMFORT & SAFETY

For 12 hours a day, the cab is your home and your workplace so we've made sure that it's a quiet, comfortable, and highly productive space where you will enjoy spending time. After all, your job is tough enough – you deserve a machine that puts you first.

## ANOTHER VISIBILITY LEADER



LiuGong is building a reputation for excellent visibility and the 995F is no exception. The high visibility cab gives you panoramic views of the jobsite, aiding performance and safety. The large glass skylight further enhances visibility and serves as an emergency exit.

A rear-view camera comes as standard with a 360-degree, 4-camera set up available.

The spacious, easy entry cab is protected by FOPS with a Falling Object Guard (FOGS) available as an option. The 995F can also be fitted with a full-length track guard for added protection.

## NEXT LEVEL COMFORT SEAT

Long shifts are made easier when you've got a comfortable seat. We've delivered with a fully adjustable and reclinable, air suspension seat that takes comfort to a new level. Our new seat will hold, support, relax and give you the smoothest ride hour after hour.

## QUIETER AND SMOOTHER

The new, reinforced frame with special viscous mounts, a new sound absorbing roof liner and improved cab seals significantly reduce unwanted noise and vibrations creating a more relaxing and productive workspace.

## COMFORT, WHATEVER THE WEATHER

Rain or shine, the 995F works hard to keep the operators comfort at an optimum level. Even tough summer heat is no match for the upgraded cap, with visors that reflect UV rays to maintain a relaxed, comfortable environment.



## MORE SPACE FOR YOU

With storage spaces in the front, side consoles and rear, you can keep your belongings safe and in easy reach.

Whether it's the first coffee of the day or an energy drink to keep you going, we've placed our cupholder right where you need it. As for entertainment, we've added Bluetooth connectivity and included two handy 12-volt power sockets for charging your smart phone or tablet.



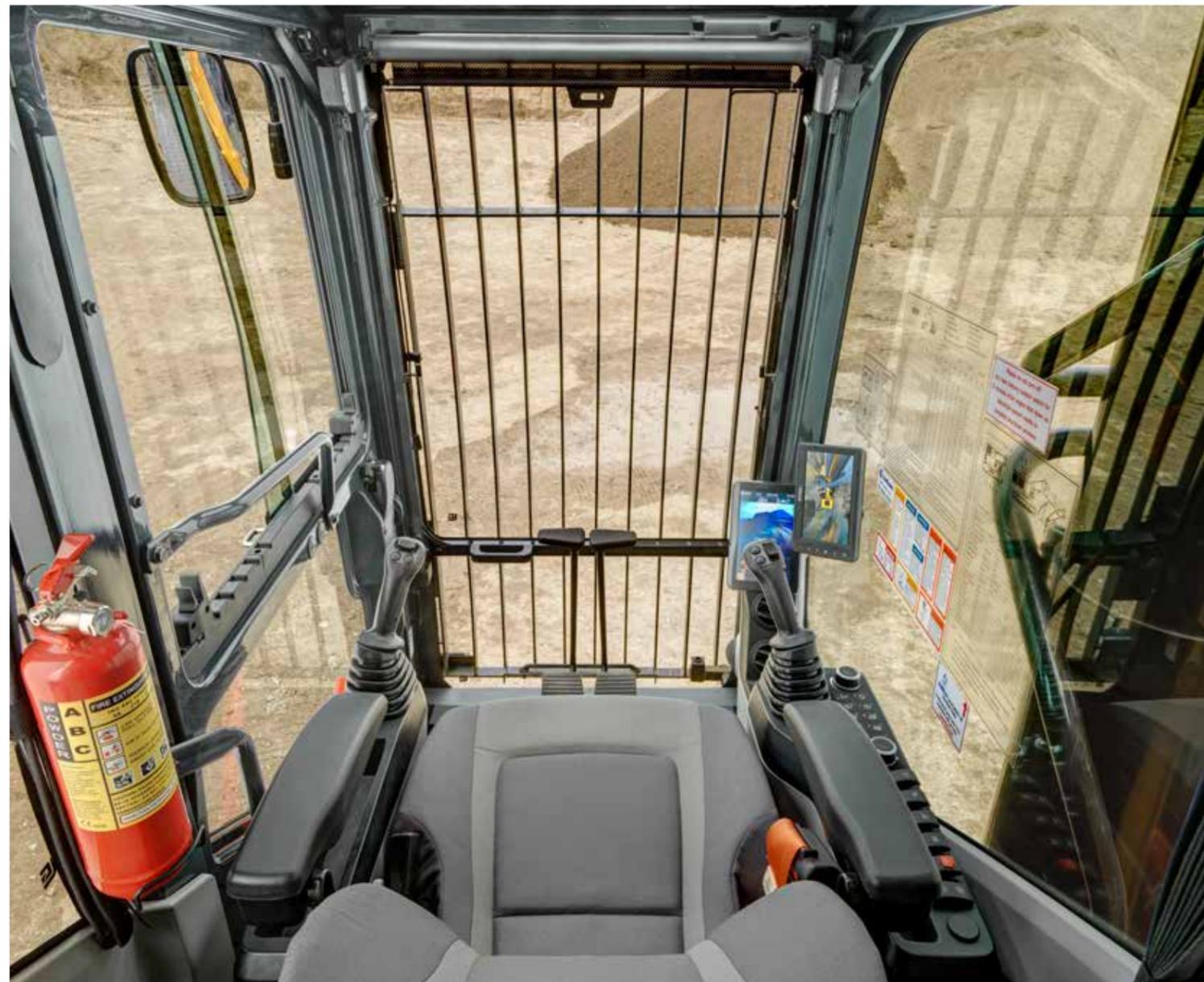
## EVEN EASIER CONTROL

Long days at the jobsite can put a physical strain on the operator, so we've designed our machine to be easier to handle. We've added an electronically controlled right and left joystick console to take the strain out of the job.



## REAL-TIME INFORMATION

Our LCD monitor is ergonomically positioned to give you all the real-time information you need to effectively and efficiently operate your machine. From travel speed to engine oil pressure alarms, from fuel level indicator to coolant temperature, large, simple to read icons give you all the information – where you need it.



## CLASS-LEADING VENTILATION

Our new pressurized cab keeps dust, noise and contaminants away while the automatic climate control surrounds you with fresh, filtered air for cooling or heating depending on the environment.

# TRUST US TO BACK YOU UP 100%

The New 995F is built for tough, remote locations where the days are long, the work is hard, and the access is difficult. In these applications, having confidence in the machine's back up and support network is a vital part of the purchasing decision. How do we at LiuGong measure up? We are committed to backing you all the way.

## PROFESSIONAL ADVICE

We are dedicated to reducing your total cost of ownership and increasing your profits. LiuGong's experts will provide targeted advice on everything, from choosing the right machine for your needs to maximizing its efficiency on site.

## FAST RESPONDING GLOBAL NETWORK

We have an extensive dealer network of over 2,650 outlets in more than 130 countries. All supported by 10 regional subsidiaries and 9 global parts centres offering expert training, parts and service support.

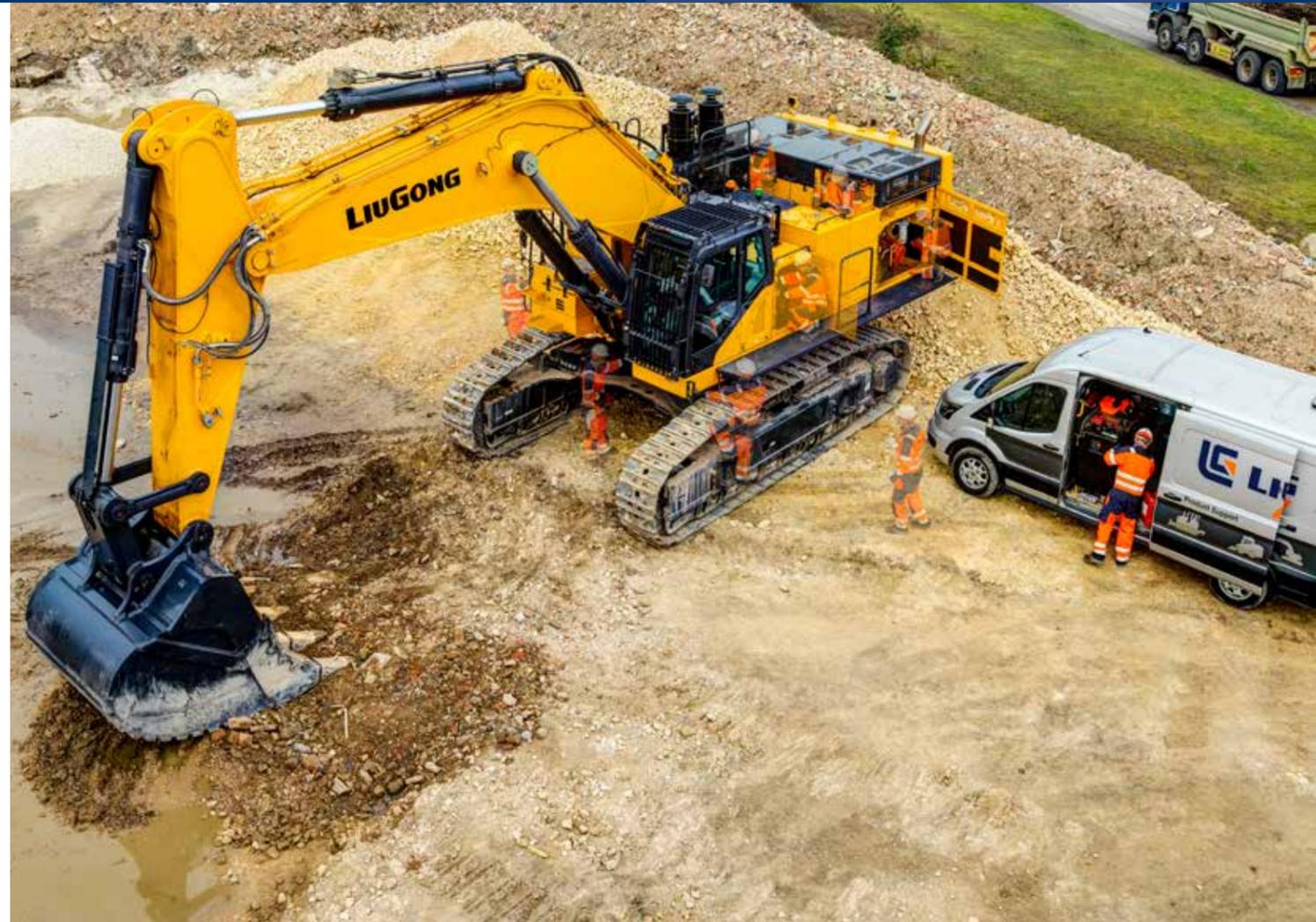


## WHERE YOU NEED US, WHEN YOU NEED US

Reliability is built into our machines, but all machines have some planned downtime. Our aim is to reduce even planned down time to the minimum by getting it right. Technician training and parts availability are high on our agenda, as is keeping you informed on service and maintenance work and providing clear and accurate estimates, invoices and communication. These may be small things, but customer feedback tells us that these basics really matter – so we aim to get them right.

## MAINTENANCE AND SUPPORT PACKAGES

From genuine LiuGong parts, to full repair and maintenance contracts, LiuGong has the flexibility to offer the level of support and response to suit your business and applications. Whatever level of support you choose you can be confident that it is backed up by LiuGong's service promise.



## IT ALL ADDS UP

With the New 995F, we've risen to the challenge and given you everything you need and nothing you don't. It's a big, powerful excavator that can handle the toughest jobs in the toughest locations with speed and efficiency. With the support and backup of LiuGong's service promise the New 995F performs equally well on the job site and on the balance sheet.

Add up the benefits and you'll see that New 995F represents the true formula for success.



**HIGHEST PRODUCTIVITY & EFFICIENCY**

+



**MAXIMIZED UPTIME**

+



**SUPERIOR OPERATOR COMFORT & SAFETY**

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**CUSTOMER SATISFACTION**

# SPECIFICATIONS

## OPERATING WEIGHT 94,800 KG

Operating weight includes coolant, lubricants, full fuel tank, cab, standard shoes, boom, arm, bucket and operator 75 kg.

## BUCKET CAPACITY 5.6 M<sup>3</sup>

## ENGINE

### Description

Perkins EU Stage V, inline 6-cylinder, turbocharger, electronically controlled direct injection engine.  
Air cleaner: Air filter with pre-cleaner.  
Cooling system: Charge-air cooler (CAC)

Emission Rating	EU Stage V
Engine manufacturer	Perkins
Engine model	2806J
Aspiration	Wastegate Turbo (WGT)
Charged air cooling	Aftercooler
Cooling fan drive	Hydraulic & Direct
Displacement	18.1 L
Rated speed	2,000 rpm
Engine output - net (SAE J1349 / ISO 9249)	433 kW (581 hp)
Engine output - gross (SAE J1995 / ISO 14396)	447.5 kW (600 hp)
Maximum torque	2, 811 N-m @ 1,300 rpm
Bore x Stroke	145 x 183 mm

## UNDERCARRIAGE

Track shoe each side	51
Link pitch	260.4 mm
Shoe width, double grouser	650 mm
Bottom rollers each side	9
Top rollers each side	3

## SWING SYSTEM

### Description

Planetary gear reduction driven by high torque axial piston motor, with oil disk brake. Swing parking brake resets within five seconds after swing pilot controls return to neutral.

Swing speed	6.4 rpm
Swing torque	376,000 N-m

## HYDRAULIC SYSTEM

### Main pump

Type	Two variable displacement piston pumps
Maximum flow	2 x 504 L/min

### Pilot pump

Type	Gear pump
Maximum flow	37.1 L/min

### Relief valve setting

Implement	35 / 37.3 MPa
Travel circuit	35 MPa
Slew circuit	31 MPa
Pilot circuit	3.9 MPa

### Hydraulic cylinders

Boom Cylinder – Bore x Stroke	Φ210 x 1,967 mm
Arm Cylinder – Bore x Stroke	Φ220 x 2,253 mm
Bucket Cylinder – Bore x Stroke	Φ220 x 1,586 mm

## ELECTRIC SYSTEM

System voltage	24 V
Batteries	2 - (2 x 12) V
Alternator	24 V - 115 A
Start motor	24 V - 9 kW

## SERVICE CAPACITIES

Fuel tank	1,240 L
Engine oil	64 L
Final drive (each)	25 L
Swing drive	14 L
Cooling system	100 L
Hydraulic reservoir	480 L
Hydraulic system total	960 L
DEF Tank	48 L

## SOUND PERFORMANCE

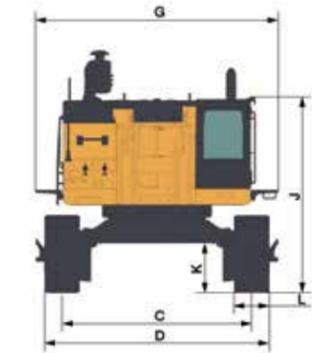
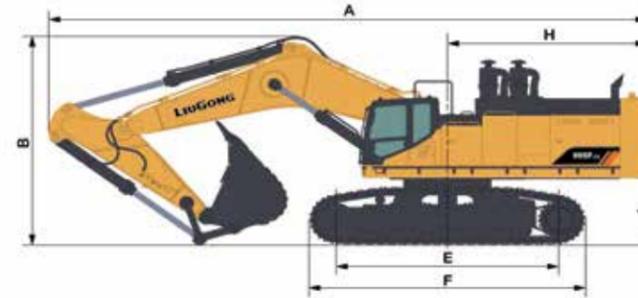
Interior Sound Power Level (ISO 6396)	72 dB(A)
Exterior Sound Power Level (ISO 6395)	107 dB(A)

## DRIVE AND BRAKES

### Description

2-speed axial piston motors with oil disk brakes. Steering controlled by two hand levers with pedals.

Max. travel speed	High: 4.2 km/h Low: 2.6 km/h
Gradeability	35°/70%
Max. drawbar pull	650 kN



## DIMENSIONS

Boom	7,250 mm
Arm Options	2,925 mm
A Shipping Length	13,757 mm
B Shipping Height – Top of Boom	5,228 mm
C Track Gauge	*3,510 mm / 2,750 mm
D Undercarriage Width – 650 mm shoes	4,160 mm / 3,400 mm (excluding steps)
E Length to Center of Rollers	5,120 mm
F Track Length	6,360 mm
G Overall Width of Upper Structure	*4,500 mm
H Tail Swing Radius	4,700 mm
I Counterweight Ground Clearance	1,675 mm
J Overall Height of Cab	3,746 mm
K Min. Ground Clearance	950 mm
L Track Shoe Width	650 mm

\* Adjustable gauge

## BOOM DIMENSIONS

Description	Standard
Boom	7,250 mm
Length	7,600 mm
Height	2,560 mm
Width	1,330 mm
Weight	9,900 kg

Cylinder, piping and pin included. Boom cylinder pin excluded.

## ARM DIMENSIONS

Description	Standard
Arm	2,925 mm
Length	4,420 mm
Height	1,710 mm
Width	910 mm with hinge pin
Weight	5,200 kg

Cylinder, linkage and pin included.

## BUCKET SELECTION GUIDE

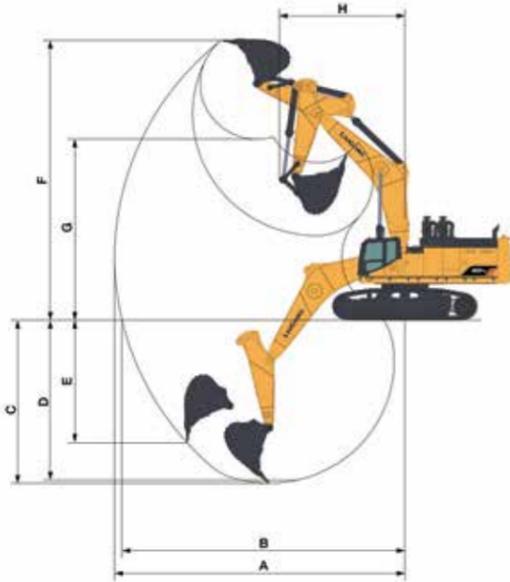
Bucket type	Capacity	Cutting width	Weight	Teeth pcs	7,250 mm HD Boom 2,925 mm Arm
Heavy duty	5.6 m <sup>3</sup>	2,350 mm	6,500 kg	4	D
	6.2 m <sup>3</sup>	2,720 mm	7,200 kg	5	C

The recommendations are given as a guide only, based on typical operation conditions. Bucket capacity based on ISO 7451, heaped material with a 1: 1 angle of repose.

Maximum material density:  
A. 1,200-1,300 kg/m<sup>3</sup>: Coal, Caliche, Shale  
B. 1,400-1,600 kg/m<sup>3</sup>: Wet earth and clay, limestone, sandstone  
C. 1,700-1,800 kg/m<sup>3</sup>: Granite, wet sand, well blasted rock  
D. 1,900 kg/m<sup>3</sup>: Wet mud, Iron ore  
NA. Not applicable

## MACHINE WEIGHTS AND GROUND PRESSURE

Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	7,250 mm boom, 2,925 mm arm, 5.6 m <sup>3</sup> bucket, 14,300 kg counterweight			7,250 mm boom, 2,925 mm arm, 6.2 m <sup>3</sup> bucket, 14,300 kg counterweight		
650 mm	94,800 kg	120 kPa	4,500 mm	95,500 kg	130 kPa	4,500 mm
700 mm	95,200 kg	120 kPa	4,500 mm	95,900 kg	121 kPa	4,500 mm



Lifting capacity at the arm end without bucket. For lifting capacity including bucket, weight of the bucket or the bucket with quick coupler must be deducted from the lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface.



- Do not attempt to lift or hold any load that is greater than these rated values at their specified load radius and height. Weight of all accessories must be deducted from the above lifting capacities.
- The 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.
- Ratings at bucket lift hook.
- Lifting capacities are based on machine standing on level, firm and uniform ground.
- \*Indicates the load is limited by hydraulic capacity rather than tipping capacity.
- Operator should be fully acquainted with the Operator's and Maintenance Instructions before operating this machine and rules for the safe operation of equipment should be adhered to at all times.

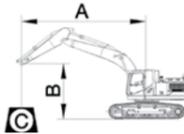
WORKING RANGE		
Boom Length		7,250 mm
Arm Length		2,925 mm
A. Max. Digging Reach		12,488 mm
B. Max. Digging Reach on Ground		12,172 mm
C. Max. Digging Depth		7,185 mm
D. Max. Digging Depth, 2.44 m (8') level		7,044 mm
E. Max. Vertical Wall Digging Depth		5,395 mm
F. Max. Cutting Height		12,342 mm
G. Max. Dumping Height		7,979 mm
H. Min. Front Swing Radius		5,415 mm
Bucket Digging Force (ISO)	Normal	471 kN
	Power Boost	496 kN
Arm Digging Force (ISO)	Normal	391 kN
	Power Boost	413 kN
Bucket Capacity		5.6 m <sup>3</sup>
Bucket Tip Radius		2,445 mm

LIFTING CAPACITY (METRIC)

650 mm Shoes, 7,250 mm Boom, 2,925 mm Arm

A: Reach from swing center  
B: Bucket hook height  
C: Lifting capacity  
Cf: Rating over front  
Cs: Rating over side

Conditions:  
Boom length: 7,250 mm one-piece boom  
Arm length: 2,925 mm  
Shoes: 650 mm triple grouser  
Unit: kg



B (m)	A (Unit: m)															
	3		4		5		6		7		8		9		10	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9									*23,546	*23,546						
8									*23,742	*23,742	*23,368	*23,368				
7							*27,021	*27,021	*24,462	*24,462	*22,631	*22,631				
6			*42,155	*42,155	*33,761	*33,761	*28,807	*28,807	*25,525	*25,525	*23,209	*23,209	*21,532	20,837		
5					*37,251	*37,251	*30,828	*30,828	*26,757	*26,757	*23,938	*23,938	*21,879	20,539		
4							*32,724	*32,724	*27,953	*27,953	*24,672	23,850	*22,263	20,192		
3							*34,099	*34,099	*28,900	28,000	*25,268	23,329	*22,564	19,847	*17,130	14,730
2							*34,692	33,793	*29,420	27,380	*25,595	22,883	*22,666	19,541	*16,830	14,560
1					*27,918	*27,918	*34,454	33,276	*29,402	26,934	*25,540	22,543	*22,455	19,305		
0					*35,912	*35,912	*33,452	33,012	*28,782	26,665	*25,000	22,323	*21,788	19,161		
-1			*27,692	*27,692	*36,356	36,356	*31,722	*31,722	*27,498	26,559	*23,848	22,238	*20,425	19,139		
-2	*29,063	*29,063	*36,157	*36,157	*33,114	*33,114	*29,206	*29,206	*25,427	*25,427	*21,856	*21,856				
-3			*31,274	*31,274	*28,906	*28,906	*25,703	*25,703	*22,283	*22,283	*18,421	*18,421				
-4			*24,766	*24,766	*23,326	*23,326	*20,749	*20,749	*17,279	*17,279						

22 LiuGong standard and optional equipment may vary from region to region. Please consult your LiuGong dealer for information specific to your area.

# STANDARD EQUIPMENT

## ENGINE SYSTEM

- Perkins engine, 447.5 kW, EU Stage V, turbocharged, 6 cylinder, 4 stroke, water cooled.
- Engine overheat protection
- Engine oil low pressure protection
- Coolant level warning
- DEF level alarm
- Electric fuel lifting pump
- Three stage fuel filtration system
- Oil bath air pre-filter air filter
- Water separator with water level indicator sensor
- Warning for air filter block
- Remote installation of engine oil filter
- Fuel shut-off valve
- Variable fan with reversing function
- Cold start (-20°C)

## HYDRAULIC SYSTEM

- Full electric control hydraulic system
- 3-power modes (Power, Standard, Economy)
- Automatic swing parking brake
- Boom and arm holding valve
- Boom lowering device for back-up
- Automatic travel parking brake
- Pilot control shut-off lever
- Pilot accumulator
- Floating boom function
- Swing with anti-reverse function
- Automatic two-speed travel
- Pressure checking port for main pump
- Hydraulic oil level gauge
- Power boost function

## OPERATOR STATION

- Pressurized and sealed cab with all-around visibility
- Cab emergency exit
- Safety hammer for cab evacuation
- Pilot cutting lever
- Fire extinguisher
- Washable floor mat
- Storage box
- Cup holder
- Coat hook
- Document holding space
- Cab rear storage compartment
- Travel control pedals with removable hand levers
- Clock

- Sliding window positioning
- Sliding upper door window (left-hand cab door)
- Cab interior lighting
- Advanced viscous damper cabin mounts
- High back seat with air suspension, seat heater and head rest, retractable (3 in) width, red color seat belt.
- 8 inches high resolution LCD touch screen + jog dial
- Green safety glass
- Skylight sunscreen
- Automatic air conditioner, heater, defroster
- Operation protection guard (FOPS Level II: ISO 10262) with swing open front.
- Sunscreen
- 2 alarm mounted bracket on cab roof

## ELECTRICAL SYSTEM

- Monitor: working mode, working hour, water temperature, oil temperature, fuel level, DEF level, fuel consumption, rear vision, fault code, work condition etc.
- Auto power boost
- 4 free-maintenance batteries
- Front window wiper with intermittent feature
- Bluetooth/AM/FM radio with auxiliary input
- Work lights time delay function after shutdown
- 2 stereo speakers
- 2 signaling/warning horn
- Battery disconnect switch
- Emergency stop on ground
- Right platform working light
- Telematics
- Overload warning device
- Travel alarm
- Rotating beacon
- Starting code
- 4 boom working lights
- 360° view camera
- Machine rear lighting
- Work lights: separately installed LED in front and rear cab (4 front and 2 rear)
- Capability to electrically connect beacon
- Password setting for auxiliary hydraulic-flow adjustments

## UNDERCARRIAGE

- 650 mm track-shoes with triple grousers
- Rollers, bottom - 9 each side
- Rollers, top - 2 each side
- Towing eye on base frame
- Centralized lubrication for swing bearing
- Full length track guiding guard
- Guard package: HD bottom guard
- Guard package: Heavy-duty travel motor guard
- Expandable undercarriage

## UPPER STRUCTURE

- Frame handrail
- Punched metal anti-slip plates
- Lockable tool box
- Grease point in front of platform
- One key for all locks
- Side door brace automatically lock
- Engine chamber and main pump chamber separated by fire board
- Foot pedal in engine room
- Frame reinforced undercover
- Rearview mirror mounted in the RH machine
- Rearview mirror mounted in the LH cab
- Upper structure guard-pipe
- 14,300 kg counterweight

## DIGGING EQUIPMENT

- 7,250 mm boom
- 2,920 mm arm with HD wear strips
- Manual centralized lubrication
- 5.6 cu.m. HD bucket

## SERVICE & MAINTENANCE

- Maintenance tool kit
- Maintenance parts package
- Telematics system
- Remote program update
- Data diagnostic port
- Self-diagnostic system

# OPTIONAL EQUIPMENT

## ENGINE SYSTEM

- Electric refueling pump with auto shutoff
- Cold starting kit for -32° C

## HYDRAULIC SYSTEM

- Attachment rotation lines-rotation flow adjustment
- High pressure quick-coupler pipes
- Straight travel with one pedal
- Bucket cylinder rod protect
- Dual way auxiliary lines with proportional joystick control

- Monitor-controlled auxiliary circuit (one or two way)
- Separate filter for hammer piping

## ELECTRICAL

- Quicker-coupler opening warning
- Work lights: long strip LED light in front and rear cab
- 12 V power supply

## UNDERCARRIAGE

- 700 mm steel track

## DIGGING EQUIPMENT

- Auto centralized lubrication system
- 6.2 cu.m. HD loading bucket



**Guangxi LiuGong Machinery Co., Ltd.**

No. 1 Liutai Road, Liuzhou, Guangxi 545007, PR China  
T: +86 772 388 6124 E: overseas@liugong.com  
www.liugong.com

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