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Fax: (011) 41419595/41419600

10, Club House Road Anna Road, Post Bag 5247 Chennai 600 002

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Tel: (079) 66304017/18, 2658 2536 Fax: (079) 2658 0491

38, Cubbon Road Bangalore 560 001

Tel: (080) 25020131/25020140 Fax: (080) 25585214/25596397

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Fax: (0265) 2336 184 131/1 Zone II

Maharana Pratap Nagar Bhopal 462 011 Tel: (0755) 4233913 / 914 Fax: (0755) 2769264

Annapoorna Complex Plot No. 559, Lewis Road Bhubaneshwar 751 014, Orissa Tel: (0674) 2537 301, 2537 305/06 Fax: (0674) 2537 309

32, Sector 26-D Madhya Marg, P.O. Box 14 Chandigarh 160 019

Tel: (0172) 2790 151, 2790 750

Fax: (0172) 2792 764

Post Bag 7156 67, Appuswamy Road Coimbatore 641 045 Tel: (0422) 2588135/2588105

Fax: (0422) 2588148 P.O. Dhansar Dhanbad 826 001

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Durgapur 713 212

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Tel: (0343) 253 5852/253 5880, 253 7843

Fax: (0343) 2536 493

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Tel: (0832) 2414055, 2416 524

Fax: (0832) 2416 523 Milanpur Road, Bamuni Maidan

Guwahati 781 021 Tel: (0361) 2651 329, 2651 299

Fax: (0361) 2551 308

2nd & 3rd Floor, Summit Complex 5-10-188/2 Hill Fort Road

Hyderabad 500 004 Tel: (040) 5572 0000, 2323 0206

Fax: (040) 2323 0686

D-24, Prithvi Raj Road, C-Scheme, P.O. Box 110, Jaipur 302 001 Tel: (0141) 2361 064, 2365 174 Fax: (0141) 2373 280

Akashdeep Plaza, 2nd Floor, P.O. Golmuri, Jamshedpur 831 003 Tel: (0657) 2340 829, 2487 112

Fax: (0657) 234 1250

Skybright Building, M.G. Road, Ravipuram Junction, P.O.Box 1723. Ernakulam, Kochi 682 016

Tel: (0484) 2358686 Fax: (0484) 2358982

1-B-15, S.F.S

Opp. Sheela Chowdhary Nursing Home

Talwandi, Kota 324 005 Tel: (0744) 2429 617 / 2436 135

Fax: (0744) 428 301 / 426 296

A-28 Indiranagar Faizabad Road, First Floor Lucknow 226 016

Tel: 0522- 2506472 Plot No. 518, 4th Main Road

K.K.Nagar Madurai 625 020 Tel: (0452) 2537 305 Fax: (0452) 2537 552

Saki Vihar Road Gate No. 5, Powai (E) Mumbai 400 072

Tel: (022) 67053285/67052470

Fax: (022) 67051510 8-B Farm Land

Ramdaspeth Nagpur 440 010

Tel: (0712) 2420644 / 628 Fax: (0712) 2420618

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328, Star Plaza, Poochhah Chowk, Rajkot 360001 Tel.: (0281) 2453 532 Fax: (0281) 2453 532

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Tel: (0294) 2451 337, 2451 305 Fax: (0294) 2450 188

48-8-16, Dwarakanagar Visakhapatnam 530 016 Tel: (0891) 2754687, 2755493, 2501468

Fax: (0891) 2746 075 40-5-6-1 First Floor, Tickle Road

Near Sweet (Magic) Brindavan Colony Vijayawada 520 010

Tel: (0866) 2470856, 5527056, 5567056, 2482436

6307

Fax: (0866) 2485274

Product improvement is a continuous process. Specifications given in this publication are therefore subject to change without notice. Photograph depicted may be of optional equipment.

Marketed & Serviced by:

### **Construction Equipment Business**

## LARSEN & TOUBRO LIMITED

Lakshminarayan Complex (1st Floor), 10/1 Palace Road, Bangalore 560 052 Tel: (080) 22256982 / 83 / 84 Fax: (080) 22250309

E-mail: ceb@pro.ltindia.com

LTKPC130-7

# L&T-KOMATSU PC130-7





Larsen & Toubro Limited, India's leading multi-dimensional industrial organisation, has an unmatched track record in the Earthmoving & Construction Equipment industry.

L&T offers a wide range of machines which incorporate contemporary technology as well as advanced features based on feedback received from users of our equipment. Every machine is engineered to deliver a high level of performance.

Manufactured in India by: L&T-Komatsu Limited

Under licence from Komatsu Ltd., Japan.

**89 HP**/66 kW @ 2200 RPM L&T-Komatsu PC130-7 hydraulic excavators are manufactured by L&T-Komatsu Limited at Bangalore Works with ISO 9001 accreditation for design, manufacture and

service, and ISO 14001 certification for Environment Management System and OHSAS 18001 certification for

Occupational Health and Safety Management Systems.

Sturdy, rugged and reliable

**BUCKET CAPACITY** 0.64 M<sup>3</sup> (SAE)

OPERATING WEIGHT

**12,600 kg** (27,778 lb)

FLYWHEEL HORSEPOWER

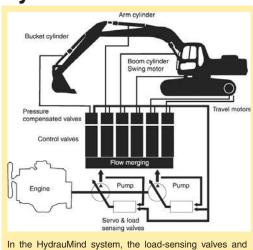
Courtesy of Machine. Market



Building on the technology and expertise that Komatsu has accumulated since its establishment in 1921, GALEO presents customers worldwide with a strong, distinctive image of technological innovation and exceptional value. The GALEO brand is now employed for Komatsu's full lineup of advanced construction and mining equipment. Designed with high productivity, safety and environmental considerations in mind, the machines in this line reflect Komatsu's commitment to contributing to the creation of a better world.

**G**enuine **A**nswers for **L**and and **E**nvironmenta**! O**ptimisation.

# **Exclusive HydrauMind System**



pressure-compensated valves automatically handle all adjustments for individual jobs based on the pressure and the lever stroke detected.

#### What is HydrauMind?

It's a technologically complex yet mechanically simple system which supervises the work operations of the excavator.

HydrauMind is not computer-dependent as it is essentially hydraulic not electronic. Its strength lies in its simplicity.

The system incorporates many major, breakthroughs and has earned Komatsu almost 200 patents.

# What are the benefits of the HydrauMind?

Power, versatility, manoeuvrability, controllability – you name it. Never has an excavator been so easy to operate, so natural, so intuitive. In a sense, you don't really operate it at all, you wear it. For example, when the ground condition changes in digging...

You don't have to think about changing your lever strokes because the HydrauMind instantly, silently, automatically sends just the right amount of oil to the actuators at just the right pressure to accommodate the change.

When you move the boom, arm and bucket at the same time...

All the equipment works organically with the optimum combination of speed and power as if it were a human hand.

The HydrauMind also makes it easy to change or add valves and work equipment. Moreover, because the system is hydraulic and not electronic, it ensures the best service availability in the industry.

## Hydraulic System equipment with engine speed sensor

The pump is controlled by the engine speed sensor, so maximum horsepower is used at all times. This contributes to higher production and shorter cycle times.

#### Other Advantages:

- Easy serviceability
- Engine conforms to emission control standards
- · Sleek and impressive design
- Safety features
- · Operator comfort



#### **Product Support**

#### SERVICE

After-sales product support is provided for the full range of construction and hydraulic equipment supplied by L&T. Service Stations equipped to overhaul and rebuild customers' machines have been established at Nagpur, Pune, Delhi, Chennai and Durgapur. Service engineers based near high machine population sites extend prompt and efficient after-sales service.

L&T's Training Centre at Bangalore imparts training to customers and dealers on maintenance & operation of machines and spare parts management.

#### **DEALER NETWORK**

In order to augment product support activities, L&T has appointed dealers nationwide for product support and service activities. Dealers have been provided access to L&T's ERP software through ITS package, for facilitating online placement of their orders, entering service reports and viewing various reports.



Training programme in progress



Checking the valve block at Hydraulic Test Bench











Track chain re-assembling using track press



#### STANDARD EQUIPMENT

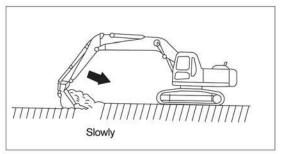
- Komatsu SAA4D95LE-3 66 kW direct injection, after-cooled, turbocharged engine
- Double element air cleaner with dust indicator and automatic dust evacuator.
- Engine stop key
- Alternator 24V/25A
- Battery 2 x 12V/65Ah
- Starter motor 24V/3.0kw
- Electronic closed centre load sensing (E-CLSS) hydraulic system (HydrauMind)
- 4 working mode selection system; active mode, economy mode, breaker mode and lifting mode
- Standard counterweight
- Power Max function
- Auto deceleration function
- Corrosion resistor
- Fan guard structure
- Pre-Fuel Filter
- Water separator
- Working mode selection system

- Engine overheat prevention system
- Fuel control dial
- PPC control levels and pedals for steering and travelling
- 2-speed hydrostatic travel system with planetary gear unit and hydraulic brake disc
- Spare part catalogue and operation/ maintenance manual
- · Lockable fuel tank cap and cover
- Boom safety valves
- Large handrails and rear view mirror
- Toolkit
- Standard signs (labels)
- 500mm triple grouser track
- Adjustable seat
- Electric horn
- Monitor panel 7 segment
- Working lights 2 (Boom & RH)
- One piece boom 4600 mm
- Arm 2100 mm
- Track roller 7 each side



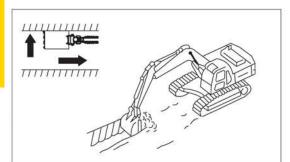
#### The HydrauMind System Makes Everything Easy

#### It is easier to fully load the bucket



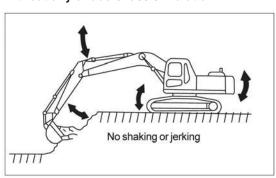
During simultaneous operation, the work equipment moves slowly at maximum power, without being influenced by the other actuators, so it is easy to fully load the bucket.

## It is easy to carry out digging work along the faces of walls



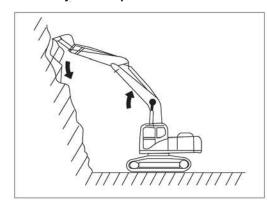
Lateral power pushing is powerful, allowing digging operation to be caried out efficiently.

## The machine can carry out operations easily without any undue chassis vibration



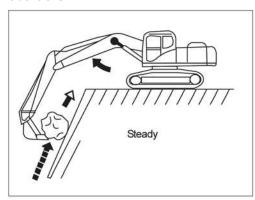
During simultaneous operations, there is no change in the work equipment speed caused by change in load, thus, there is minimal chassis vibration.

#### It is easy to scrape down



Even without operating the lever to the maximum position, maximum digging power can be obtained, making it possible to carry out slow control.

## It is easy to dig soft rock or dig up boulders



It is easy to control the boom RAISE, so the cutting edge does not deviate from the boulders.



# Comfortable operator environment keeps work efficiency high, hour after hour

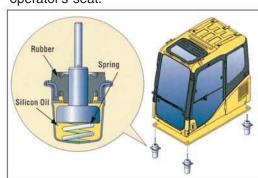


#### **Spacious Cab Interior**

The cab interior is spacious. An ergonomically-designed operator's seat and easy access to all control levers ensure maximum operator comfort and better concentration on the job.

## Low Vibration with Cab Damper Mounting

L&T-Komatsu PC130-7 uses a new, improved cab damper mount system that incorporates longer stroke and the addition of a spring. The new cab damper mounting combined with a strengthened left and right side deck aids vibration reduction at the operator's seat.

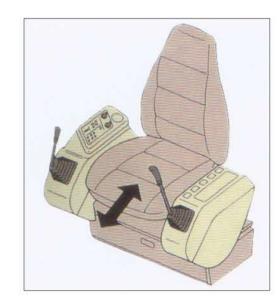


Comparison of F	Riding Comfort	Conditions
Cab Damper Mounting	-Ammonton	Travelling obstacle of side track     Travelling s
Multi-Layer Viscous Mount	- William to be the provide the property of	forward hiç - Floor Vib

Pitch vertical direction on graph shows size of vibration

## Adjustable seat and control levers

The seat slides forward and backward together with the work equipment control levers to ensure the best operating position at all times.

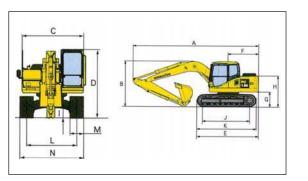






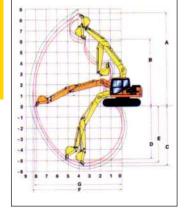


ARM LENGTH	2100 mm	6' 10"	2500 mm	8' 2"
Length on ground (transporting)	7590 mm	24' 10"	7595 mm	24' 11"
Overall height (to top of boom)	2620 mm	8' 7"	2175 mm	7' 2"
Width of upper structure	2490 mm	8' 2"	2490 mm	8' 2"
Total height (to top of cabin)	2810 mm	9' 2"	2810 mm	9' 2"
Overall length of basic machine	3925 mm	12' 10"	3925 mm	12' 10"
Distance from swing center to tail	2110 mm	6' 11"	2110 mm	6' 11"
Clearance under counterweight	855 mm	2' 9"	855 mm	2' 9"
Counterweight height	1885 mm	6' 2"	1885 mm	6' 2"
Minimum ground clearance	400 mm	1' 3"	400 mm	1' 3"
Track length on ground	2880 mm	9' 5"	2880 mm	9' 5"
Track length	3610 mm	11' 10"	3610 mm	11' 10"
Track gauge	1990 mm	6' 6"	1990 mm	6' 6"
Width of track shoe	500 mm	1' 7"	500 mm	1' 7"
Overall track width	2490 mm	8' 2"	2490 mm	8' 2"
	Length on ground (transporting)  Overall height (to top of boom)  Width of upper structure  Total height (to top of cabin)  Overall length of basic machine  Distance from swing center to tail  Clearance under counterweight  Counterweight height  Minimum ground clearance  Track length on ground  Track length  Track gauge  Width of track shoe	Length on ground (transporting)  Overall height (to top of boom)  Width of upper structure  Total height (to top of cabin)  Overall length of basic machine  Distance from swing center to tail  Clearance under counterweight  Counterweight height  Minimum ground clearance  Track length on ground  Track length  Track gauge  Width of track shoe  7590 mm  2810 mm  3925 mm  2110 mm  3550 mm  3610 mm  3610 mm	Length on ground (transporting)         7590 mm         24' 10"           Overall height (to top of boom)         2620 mm         8' 7"           Width of upper structure         2490 mm         8' 2"           Total height (to top of cabin)         2810 mm         9' 2"           Overall length of basic machine         3925 mm         12' 10"           Distance from swing center to tail         2110 mm         6' 11"           Clearance under counterweight         855 mm         2' 9"           Counterweight height         1885 mm         6' 2"           Minimum ground clearance         400 mm         1' 3"           Track length on ground         2880 mm         9' 5"           Track length         3610 mm         11' 10"           Track gauge         1990 mm         6' 6"           Width of track shoe         500 mm         1' 7"	Length on ground (transporting)         7590 mm         24' 10"         7595 mm           Overall height (to top of boom)         2620 mm         8' 7"         2175 mm           Width of upper structure         2490 mm         8' 2"         2490 mm           Total height (to top of cabin)         2810 mm         9' 2"         2810 mm           Overall length of basic machine         3925 mm         12' 10"         3925 mm           Distance from swing center to tail         2110 mm         6' 11"         2110 mm           Clearance under counterweight         855 mm         2' 9"         855 mm           Counterweight height         1885 mm         6' 2"         1885 mm           Minimum ground clearance         400 mm         1' 3"         400 mm           Track length on ground         2880 mm         9' 5"         2880 mm           Track length         3610 mm         11' 10"         3610 mm           Track gauge         1990 mm         6' 6"         1990 mm           Width of track shoe         500 mm         1' 7"         500 mm





#### WORKING RANGE



	Arm types	2.1m	arm	2.5m	arm
Α	Maximum digging height	8345 mm	27' 4"	8610 mm	28' 3"
В	Maximum dumping height )	5905 mm	19' 4"	6170 mm	20' 3"
С	Maximum digging depth	5115 mm	16' 9"	5520 mm	18' 1"
D	Maximum vertical wall digging depth	4520 mm	14' 9"	4940 mm	16' 2"
E	Maximum digging depth of cut for 8' level	4875 mm	15' 11"	5315 mm	17' 5"
F	Maximum digging reach	7925 mm	26'	8290 mm	27' 2"
G	Maximum digging reach at ground level	7795 mm	25' 6"	8170 mm	26' 9"
	Bucket digging force (ISO)	86.29 kN	8800 kgf	86.29 kN	8800 kgf
	Bucket maximum digging force (ISO) (kgf)	93.16 kN	9500 kgf	93.16 kN	9500 kgf
	Arm crowd force (ISO) (kgf)	70.60 kN	7200 kgf	61.78 kN	6300 kgf
	Arm maximum crowd force (ISO) (kgf)	77.47 kN	7900 kgf	67.66 kN	6900 kgf

#### BACKHOE BUCKET, ARM AND BOOM COMBINATION

Bucket Capacity (heaped)	Wi	dth	Weight	Number of Teeth	Arm I	ength
SAE, PCSA	Without Side Cutters	With Side Cutters	With Side Cutters		2.5 m	2.1 m
					8'2"	6 <b>'</b> 10"
0.53 m <sup>3</sup>	859 mm	984 mm	433 kg	4	0	0
0.69 yd <sup>3</sup>	33.8"	38.74"	954 lb			
0.64 m³	1000 mm	1125 mm	485 kg	5		0
0.83 yd <sup>3</sup>	39.36"	44.29"	1069 lb			

These figures are based on operating conditions with maximum bucket load, maximum reach and ensured lateral stability.

- ○: Material weight not over 1.8t/m³, 1.52 U.S. ton / yd³
- ☐: Material weight not over 1.5t/m³, 1.27 U.S. ton / yd³

#### **Specifications**



#### **ENGINE**

Model	Komatsu SAA4D95LE-3
Туре	Water-cooled, direct injection
Aspiration	Turbocharged, after-cooled
Number of cylinders	4
Bore	<b>95</b> mm 3.74"
Stroke	<b>115</b> mm 4.53"
Piston displacement	3.26 ltr 199 cu.in
Flywheel horsepower:	
SAE J1349	
DIN6270	90 PS 66 kW @ 2200 rpm
Governor	All-speed control, mechanical
Meets 2001 EPA, EU, and Ja	pan Tier II emission regulations.



Type HydrauMind (Hydraulic Mechanical Intelligence New Design) system, closed-center system with load sensing valves and pressure compensated valves
Number of selectable working modes4
Main Pump:
Type Variable displacement piston type
Pumps for Boom, arm, bucket, swing, and travel circuits
Maximum flow 226 ltr/min 59.7 US gal/min
Supply for control circuit Self-reducing valve
Hydraulic motors:
Travel2 x axial piston motor with parking brake
Swing 1 x axial piston motor with swing holding brake
Relief valve setting:
Implement circuits 31.87 MPa <b>325 kgf/cm<sup>2</sup></b> 4,622 psi
Travel circuit
Swing circuit
Pilot circuit 2.94 MPa <b>30 kgf/cm²</b> 426 psi

#### Hydraulic cylinders:

(Number of cylinders – bore x stroke x rod diameter) Boom .... 2 - 105 mm x 990 mm x 70 mm 4.1" x 39.0" x 2.8" Arm ..... 1 – 115 mm x 1175 mm x 75 mm 4.5" x 46.3" x 3.0" Bucket .... 1 - 95 mm x 885 mm x 65 mm 3.7" x 34.8" x 2.6"



## DRIVES & BRAKES

Steering control	Two levers with pedals
Drive method	Hydrostatic
Maximum drawbar pull.	100 kN <b>10200 kgf</b> 22,486 lb
Gradeability	70%, 35°
Maximum travel speed:	High 5.5 km/h 3.4 mph
	(Auto-Shift) Low 2.7 km/h 1.67 mph
Service brake	Hydraulic lock



#### SWING SYSTEM

Drive method	Hydrostatic
Swing circle lubrication	Grease-bathed
Service brake	Hydraulic lock
Holding brake/Swing lock	Mechanical disc brake
Swing speed	0~11 rpm
Swing reduction	Planetary Gear



#### UNDERCARRIAGE

Center frame	X-frame
Track frame	Box-section
Seal of track	Sealed track
Track adjuster	Hydraulic
Number of shoes (each side)	43
Number of carrier rollers	1 each side
Number of track rollers (each side)	7



#### COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank	247 ltr 65.25 U.S. gal
Radiator	13.4 ltr 3.53 U.S. gal
Engine	11 ltr 2.9 U.S. gal
Final drive, each side	2.5 ltr 0.66 U.S. gal
Swing drive	2.5 ltr 0.66 U.S. gal
Hydraulic tank	90 ltr 23.77 U.S. gal



#### OPERATING WEIGHT (APPROXIMATE)

Operating weight including 4.6 m 15'1" one-piece boom, 2.1 m 6'10" arm, SAE heaped 0.64 m3 0.83 yd3 bucket. capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

L&T-Komatsu PC130-7			
Shoes	Operating Weight	Ground Pressure	
<b>500 mm</b> 19.68"	<b>12,600 kg</b> 27,778 lb	38.24 kPa <b>0.39 kgf/cm</b> <sup>2</sup> 5.54 psi	



#### Harmony with **Environment**

#### **Low Emission Engine**

Komatsu SAA4D95LE-3 has cleared EPA, EU and Japan Tier II emissions regulations and reduced NOx emission.

#### **Environment Oriented Mode** (Economy Mode)

Economy mode meets the needs of the 21st Century. Economy mode offers the user fuel savings, quiet operation and less CO<sub>2</sub> emission.

Fuel consumption is reduced (compared with Active mode)

#### **Easy Maintenance**

Service parts of the excavator are easily accessible. As a result, routine maintenance and servicing are made easier and less likely to be missed, thereby reducing potential machine downtime. Some of the service features found on the excavator are:

#### Thermal and Fan Guards

Are placed around high temperature parts of the engine and fan drive.





#### **Oil-Water Separator**

The standard equipped oilwater separator removes water that has been mixed with fuel, thus preventing damage to the fuel system.



The Orderly **Arranged** Cooling System Since the radiator, after cooler and the oil cooler are arranged in parallel manner, it is easy to clean, remove and install.



Easy-to-Change **Engine Oil Filter** The engine oil filter is remotely fitted for easy accessibility.



#### **Skid-Proof Surface**

The steps with its skid-proof surface help to ensure safer maintenance and servicing.

### **Productivity Features**



#### **High Production and Low Fuel Consumption**

The increased output and fuel savings of the Komatsu SAA4D95LE-3 engine result in increased production and improved production per unit of fuel.

#### **Engine**

The L&T-Komatsu PC130-7 gets its exceptional power and work capacity from a Komatsu SAA4D95LE-3 engine. Output is 89 HP/66 kW, providing increased hydraulic power and improved fuel efficiency.

#### **Hydraulics**

Unique two-pump system ensures smooth compound movement of the work equipment. HydrauMind controls both pumps for efficient engine power use. This system also reduces hydraulic loss during operation.

#### **Four Working Modes**

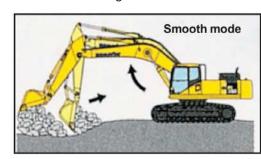
#### **Working Mode Selection**

The L&T-Komatsu PC130-7 excavator is equipped with four working modes (A, E, B and L mode). Each mode is designed to match engine speed, pump speed and system pressure with the current application. This provides the flexibility to match equipment performance to the job at hand.

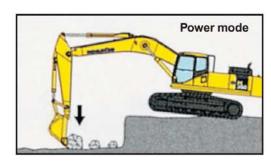
Working Mode	Application	Advantage
A	Active Mode	Maximum production/power     Fast cycle times
E	Economy Mode	Excellent fuel economy
В	Breaker operation	Optimum engine rpm, hydraulic flow
L	Lifting Mode	Hydraulic pressure has been increased by 7%

#### **Two Boom Settings**

Smooth mode provides easy operation for gathering blasted rock or scraping down operation. When maximum digging force is needed, switch to power mode for more effective excavating.



Boom floats upward, reduced lifting of machine front. This facilitates gathering blasted rock and scraping down operations.



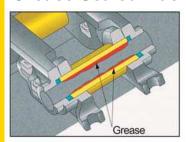
Boom pushing force is increased, ditch digging and box digging operation on hard ground are improved.

### **Excellent Reliability** and Durability

#### **Sturdy Frame Structure**

The revolving frame center frame and undercarriage are designed by using the most advanced threedimensional CAD and FEM analysis technology.

#### **Grease Sealed Track**



L&T-Komatsu PC130-7 uses grease sealed tracks for extended undercarriage life.

#### **Track Link with Strut**



L&T-Komatsu PC130-7 uses track links with strut providing superb durability.

#### **Reliable Components**

All of the major machine components, such as engine, hydraulic pumps, hydraulic motors and control valves are exclusively designed and manufactured by Komatsu.

#### **Highly Reliable Electronic** Devices

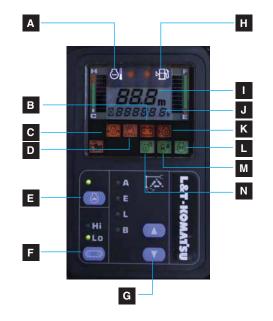
Exclusively designed electronic devices have passed severe testing.

- Controller
- Sensors
- Connectors
   Heat resistant wiring

Metal Guard Rings protect all the hydraulic cylinders and improve reliability.

#### **Self-Diagnostic Monitor**

L&T-Komatsu PC130-7 features the most advanced diagnostics system. The Komatsu exclusive system identifies maintenance items, reduces diagnostic times, indicates oil and filter replacement hours and displays error codes.



- A Engine Water Temperature
- B Battery Charge
- C Engine Oil Pressure
- D Air Cleaner Clogging Monitor
- E Auto-Decel Switch
- F Travel Speed Select Switch G Working Mode Select Switch
- H Fuel Lever Monitor
- User or Trouble Code Display
- J Service Meter Display
- K Engine Oil Level
- L Engine Preheat
- M Swing Lock Display N Oil Maintenance

#### **Continuous Machine Monitoring System**

When turning start switch ON, check before starting for any caution display on the liquid crystal panel. If abnormalities are found, a warning lamp blinks and a warning buzzer sounds. The continuous machine condition checks help prevent the development of serious problems and allows the operator to concentrate on the controls.

#### Abnormalities on Electronic **System Display with Code**

When an error occurs during operation, a user code is displayed. When an important user code is displayed, a caution lamp blinks and a warning buzzer sounds to prevent the development of serious problems.

#### Oil Maintenance Function

When machine exceeds oil or filter replacement time, oil maintenance monitor lights to inform operator.