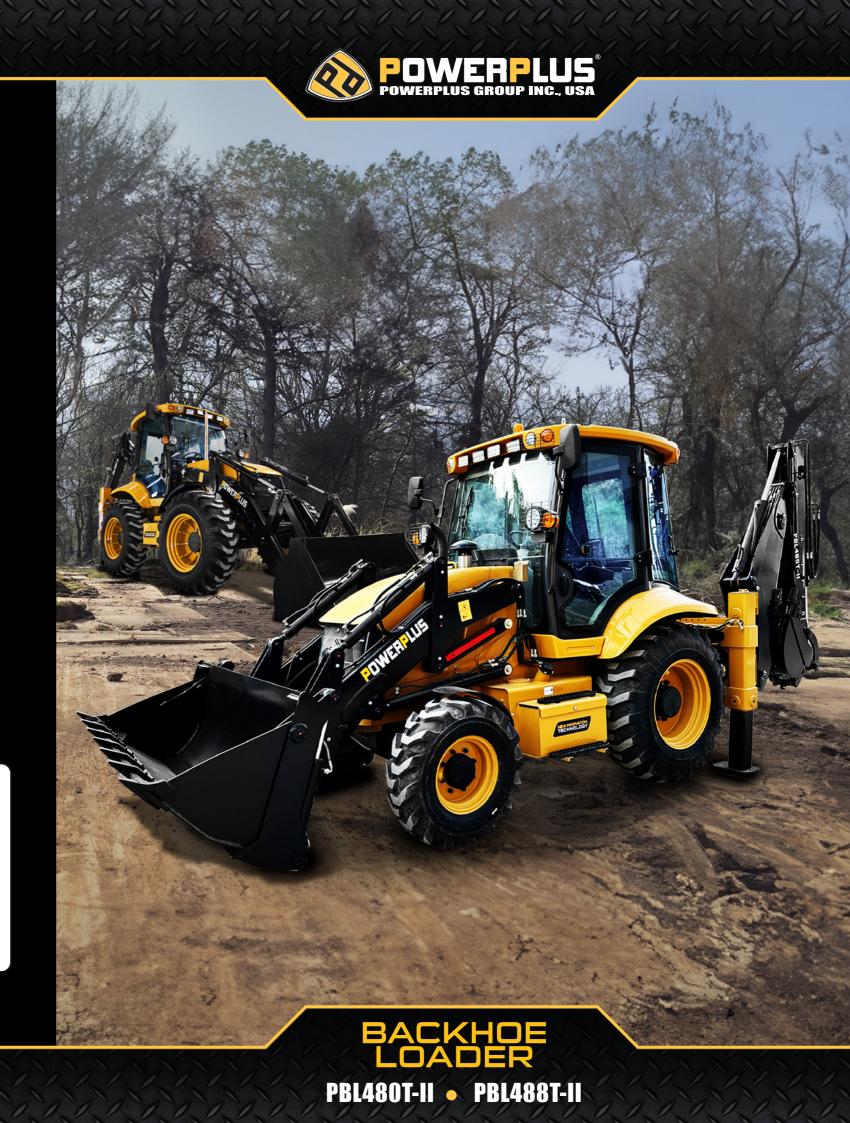


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**Research & Development Facility** 

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Distributed By:



HIGHLIGHTS



#### **PERKS FOR END-USERS**

CARRARO\* transmission and axles with excellent performance and reliability.

Advanced manufacturing process and thorough quality control before any machine leaves factory premises ensuring longer backhoe loader's life expectancy.

Wide range of additional attachments and customized approaches make POWERPLUS Backhoe Loaders suitable for any operational needs.

Routine check-up, daily preparation for operations and even scheduled maintenance service become an easy task with increased access to the backhoe loader parts and components.

Increased maneuverability for the hassle-free drive around the site.

### MINIMIZED ENVIRONMENTAL IMPACT

Backhoe loaders are manufactured according to international safety and environmental standards.

Fuel efficiency and good control systems for low emission levels.

Up to 90% of recyclable parts and quality parts for a longer lifespan.





#### **OPERATOR'S COMFORT AND INCREASED PRODUCTIVITY**

Noise and shock reduction cabin for better comfort and reduced operator's fatigue.

Wide operational view with improved visibility to perform even high detailed operations.

ROPS/FOPS cabin with personalized amenities including POWERPLUS adjustable suspension seat, MP3 player, and air-conditioning.

Cabin designed with wide leg-room space and in-cab storage – in order to increase operator's comfort. Consequently, higher operator's comfort results in better productivity and efficiency of work in general.



1

**ARM** 

**QUICK HITCH** 

**AUGER** 

## **BOOM TYPE**



Different Backhoe Boom options are available.

## **OUTRIGGER TYPE**



Stabilizer Arms are available in different types to suit different needs.

# FRONT BACK DOZER BLADE PALLET FORK BACK GRAPPLE HYDRAULIC BREAKER

\*Availability of equipment may varies across different regions. Kindly consult your POWERPLUS territory sales personnel for details.

**GRAPPLER** 

**BUCKET** 

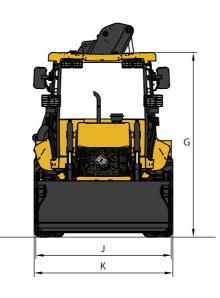
**BUCKET** 

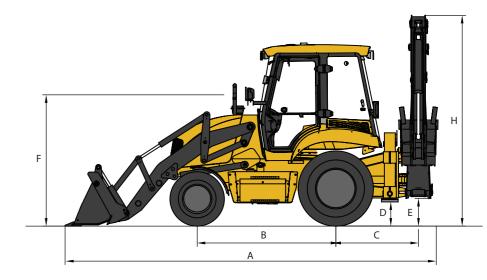


3

MAIN SPECIFICATIONS		PBL480T-II						
Operating Weight	kg	8200						
Wheelbase	mm	2280						
Minimum Ground Clearance	mm	400						
ROPS Cabin	1	•						
PERFORMANCE								
LOADER								
Bucket Capacity	m <sup>3</sup>	1.0						
Breakout Force	kN	38						
Loading Capacity	kg		2500					
Bucket Dumping Height	mm		2807					
Bucket Dumping Distance	mm		801					
BACKHOE	,							
Bucket Capacity	m <sup>3</sup>		0.3					
Maximum Digging Depth	mm		3967 / 3424					
Maximum Drawing Force	kN		45					
TRAVEL								
No. of Gears			4 Forward & 4 Reverse	)				
Maximum Traveling Speed	km/h	38						
ENGINE								
Model		WEICHAI WP4G95E221	CUMMINS 4BTA3.9-C100	CUMMINS 4BTA3.9-C110				
Rated Power	hp	95	100	110				
Rated Speed	rpm	2200	2200	2200				
Emission		EURO II	EURO II	EURO II				
TRANSMISSION SYSTEM								
Model		CARRARO TLB1-4WD / TCB80SPS4WD						
Transmission Type		Mecha	nical / Electronic Trans	smission				
STEERING								
System Type		Front wheel steering						
System Pressure	Мра		14					
Steering Angle	° +/-		36					
AXLE								
Model		CARRARO						
Front Axle Load	Т	22.5						
Rear Axle Load	Т	18.75						
Axle Drive		4X4						
TIRE								
Front			14-17.5NHS-16 PR					
Rear			19.5L-24-14PR					
BRAKE SYSTEM		·						
Service Brake		Wet Type Brake						
Parking Brake			Manual					

# **DIMENSIONS**



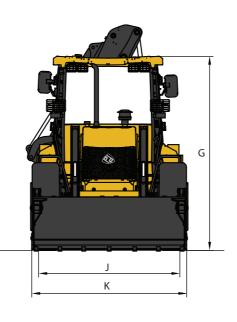


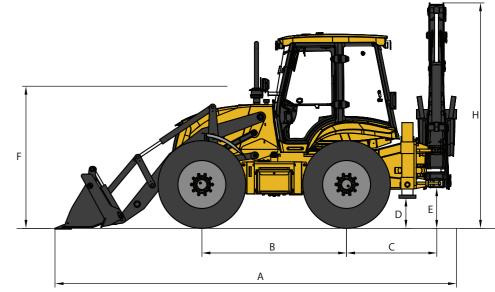
DIMENSION			PBL480T-II				
	Standa	rd Arm	Telesco	Telescopic Arm			
	Type 1	Type 2	Type 1	Type 2			
Overall Length	А	mm	6100	6130	6100	6130	
Wheelbase	В	mm	2280	2280	2280	2280	
Distance from Arm Pivot to Rear Axle	С	mm	1327	1357	1327	1357	
Ground Clearance on Bracket	D	mm	400	400	400	400	
Ground Clearance on Arm Carrier	Е	mm	486	456	486	456	
Steering Wheel Center Height	F	mm	2066	2066	2066	2066	
Cab Top Height	G	mm	3000	3000	3000	3000	
Overall Height	Н	mm	3813	3465	3813	3465	
Frame Width	J	mm	2280	2280	2280	2280	
Bucket Width	K	mm	2268	2268	2268	2268	



Operating Weight         kg         10500           Wheelbase         mm         2293           Minimum Ground Clearance         mm         475           ROPS Cabin         ●         ●           PERFORMANCE         U         ●           LoADER         Bucket Capacity         MS           Breakout Force         kN         38           Loading Capacity         kg         2500           Bucket Dumping Height         mm         3153           Bucket Dumping Jistance         mm         989           Bucket Dumping Jistance         mm         989           Bucket Dumping Jistance         mm         989           Bucket Dayacity         m³         0.3           Maximum Digging Depth         mm         3766 / 3233           Maximum Digging Depth         mm         3766 / 3233           Maximum Drawing Force         kN         45           TRAVEL         No. of Gears         4 Forward & 4 Reverse           Maximum Traveling Speed         km/h         38           ENDINE         WP4G985221         4BTA3.9-C100         4BTA3.9-C110           Rated Power         hp         95         100         110	MAIN SPECIFICATIONS		PBL488T-II						
Wheelbase         mm         2293           Minimum Ground Clearance         mm         475           OPS Cabin         ●           PERFORMANCE           LOADER         Bucket Capacity         m³         1.2           Breakout Force         kN         38         Besalout Force           Bucket Dumping Height         mm         3153         Bucket Dumping Distance         Bucket Dumping Distance         mm         989         BACKHOE           Bucket Capacity         m³         0.3         Maximum Distance         Maximum Distance	Operating Weight	kg	10500						
PERFORMANCE	Wheelbase	1	2293						
Performance   Loader   Loader   Bucket Capacity   m³   1.2	Minimum Ground Clearance	mm							
Display		1							
Bucket Capacity	PERFORMANCE								
Breakout Force	LOADER								
Breakout Force	Bucket Capacity	m <sup>3</sup>		1	.2				
Bucket Dumping Height		kN	38						
Bucket Dumping Height         mm         3153           Bucket Dumping Distance         mm         989           BACKHOE           Bucket Capacity         m³         0.3           Maximum Digging Depth         mm         3766 / 3233           Maximum Drawing Force         kN         45           TRAVEL           No. of Gears         4 Forward & 4 Reverse           Maximum Traveling Speed         km/h         38           EMAINING           Model         WEICHAI WP4G95E221         CUMMINS CUMMINS ABTA3.9-C1100         4BTA3.9-C1100         4BTA3.9-C1100         4BTA3.9-C1100         4BTA3.9-C110         4BTA3.9-C110         4BTA3.9-C110         Eact of Line III         Eact of III         Euro II         Euro III         Euro II	Loading Capacity	kg		25	00				
BackHOE	Bucket Dumping Height	mm		31	53				
Bucket Capacity	Bucket Dumping Distance	mm		98	39				
Maximum Digging Depth         mm         3766 / 3233           Maximum Drawing Force         kN         45           TRAVEL           No. of Gears         4 Forward & 4 Reverse           Maximum Traveling Speed         km/h         38           ENGINE         WEICHAI         CUMMINS         CUMMINS           Model         WEICHAI         CUMMINS         CUMMINS           4BTA3.9-C100         4BTA3.9-C110         4BTA3.9-C110         4BTA3.9-C110           Rated Power         hp         95         100         110           Rated Speed         rpm         2200         2200         2200           Emission         Euro II         Euro II         Euro II           TRANSMISSION SYSTEM         FUJI         CARRARO           Model         FUJI         CARRARO           Transmission Type         Electronic Transmission           STEERING           System Type         4 Wheel Steering and Crab Steer           System Pressure         Mpa         14           Steering Angle         ° +/-         35           AXLE         Model         CARRARO           Front Axle Load         T         18.75           Axl	BACKHOE								
Maximum Drawing Force         kN         45           TRAVEL           No. of Gears         4 Forward & 4 Reverse           Maximum Traveling Speed         km/h         38           ENGINE         WEICHAI WP4G95E221 ABTA3.9-C100 ABTA3.9-C110           Rated Power         hp         95         100         110           Rated Speed         rpm         2200         2200         2200           Emission         Euro II         Euro II         Euro II           TRANSMISSION SYSTEM         Model         FUJI CARRARO TCB80SPS 4WD 4WS           Transmission Type         Electronic Transmission           STEERING           System Type         4 Wheel Steering and Crab Steer           System Pressure         Mpa         14           Steering Angle         ° +/-         35           AXLE         Model         CARRARO           Front Axle Load         T         25           Rear Axle Load         T         18.75           Axle Drive         4X4         TIRE           Front         16.9-28           BRAKE SYSTEM         Wet Type Brake	Bucket Capacity	m <sup>3</sup>		0	.3				
No. of Gears		mm		3766	/ 3233				
No. of Gears	Maximum Drawing Force	kN		4	5				
Maximum Traveling Speed   km/h   38	TRAVEL								
WEICHAI   CUMMINS   CUMMINS   ABTA3.9-C110	No. of Gears			4 Forward 8	& 4 Reverse	)			
Model         WEICHAI WP4G95E221         CUMMINS 4BTA3.9-C110         CUMMINS 4BTA3.9-C110           Rated Power         hp         95         100         110           Rated Speed         rpm         2200         2200         2200           Emission         Euro II         Euro II         Euro II           TRANSMISSION SYSTEM           Model         FUJI FZL30W         CARRARO TCB80SPS 4WD 4WS           Transmission Type           STEERING           System Type         4 Wheel Steering and Crab Steer           System Pressure         Mpa         14           Steering Angle         ° +/-         35           AXLE         Model         CARRARO           Front Axle Load         T         25           Rear Axle Load         T         18.75           Axle Drive         4X4           TIRE           Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM           Service Brake         Wet Type Brake	Maximum Traveling Speed	km/h		3	8				
WP4G95E221	ENGINE								
Rated Speed         rpm         2200         2200         2200           Emission         Euro II         Euro II         Euro II           TRANSMISSION SYSTEM           Model         FUJI FZL30W         CARRARO TCB80SPS 4WD 4WS           Transmission Type         Electronic Transmission           STEERING           System Type         4 Wheel Steering and Crab Steer           System Pressure         Mpa         14           Steering Angle         ° +/-         35           AXLE           Model         CARRARO           Front Axle Load         T         25           Rear Axle Load         T         18.75           Axle Drive         4X4           TIRE           Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM           Service Brake         Wet Type Brake	Model		l l						
Rated Speed         rpm         2200         2200         2200           Emission         Euro II         Euro II         Euro II           TRANSMISSION SYSTEM           Model         FUJI FZL30W         CARRARO TCB80SPS 4WD 4WS           Transmission Type         Electronic Transmission           STEERING           System Type         4 Wheel Steering and Crab Steer           System Pressure         Mpa         14           Steering Angle         ° +/-         35           AXLE           Model         CARRARO           Front Axle Load         T         25           Rear Axle Load         T         18.75           Axle Drive         4X4           TIRE         Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM         Service Brake         Wet Type Brake	Rated Power	hp	95	1(	00	110			
Emission         Euro II         Euro II         Euro II           TRANSMISSION SYSTEM           Model         FUII FZL30W         CARRARO TCB80SPS 4WD 4WS           Transmission Type         Electronic Transmission           STEERING           System Type         4 Wheel Steering and Crab Steer           System Pressure         Mpa         14           Steering Angle         ° +/-         35           AXLE           Model         CARRARO           Front Axle Load         T         25           Rear Axle Load         T         18.75           Axle Drive         4X4         TIRE           Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM         Wet Type Brake	Rated Speed	<del>†                                      </del>	2200	22	100	2200			
Model         FUJI FZL30W         CARRARO TCB80SPS 4WD 4WS           Transmission Type         Electronic Transmission           STEERING           System Type         4 Wheel Steering and Crab Steer           System Pressure         Mpa           Steering Angle         ° +/-           AXLE           Model         CARRARO           Front Axle Load         T           Rear Axle Load         T           Axle Drive         4X4           TIRE           Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM           Service Brake         Wet Type Brake	Emission		Euro II	Eu	ro II	Euro II			
Model         FZL30W         TCB80SPS 4WD 4WS           Transmission Type         Electronic Transmission           STEERING           System Type         4 Wheel Steering and Crab Steer           System Pressure         Mpa           Steering Angle         ° +/-           AXLE         Steering Angle           Model         CARRARO           Front Axle Load         T         25           Rear Axle Load         T         18.75           Axle Drive         4X4           TIRE           Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM           Service Brake         Wet Type Brake	TRANSMISSION SYSTEM								
STEERING           System Type         4 Wheel Steering and Crab Steer           System Pressure         Mpa         14           Steering Angle         ° +/-         35           AXLE         Model         CARRARO           Front Axle Load         T         25           Rear Axle Load         T         18.75           Axle Drive         4X4           TIRE         Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM         Service Brake         Wet Type Brake	Model								
System Type         4 Wheel Steering and Crab Steer           System Pressure         Mpa         14           Steering Angle         ° +/-         35           AXLE         Model         CARRARO           Front Axle Load         T         25           Rear Axle Load         T         18.75           Axle Drive         4X4           TIRE         Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM         Service Brake         Wet Type Brake	Transmission Type			Electronic 7	ransmissio	n			
System Pressure         Mpa         14           Steering Angle         ° +/-         35           AXLE         Model         CARRARO           Front Axle Load         T         25           Rear Axle Load         T         18.75           Axle Drive         4X4           TIRE         Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM         Wet Type Brake	STEERING								
Steering Angle         ° +/-         35           AXLE           Model         CARRARO           Front Axle Load         T         25           Rear Axle Load         T         18.75           Axle Drive         4X4           TIRE         Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM         Wet Type Brake	System Type		4 Wheel Steering and Crab Steer						
AXLE           Model         CARRARO           Front Axle Load         T         25           Rear Axle Load         T         18.75           Axle Drive         4X4           TIRE         Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM         Wet Type Brake	System Pressure	Мра		1	4				
Model         CARRARO           Front Axle Load         T         25           Rear Axle Load         T         18.75           Axle Drive         4X4           TIRE           Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM           Service Brake         Wet Type Brake	Steering Angle	° +/-		3	5				
Front Axle Load         T         25           Rear Axle Load         T         18.75           Axle Drive         4X4           TIRE           Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM           Service Brake         Wet Type Brake	AXLE								
Rear Axle Load         T         18.75           Axle Drive         4X4           TIRE           Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM         Wet Type Brake	Model		CARRARO						
Axle Drive         4X4           TIRE         16.9-28           Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM         Wet Type Brake	Front Axle Load	Т		2	5				
TIRE           Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM           Service Brake         Wet Type Brake	Rear Axle Load	T	18.75						
Front         16.9-28           Rear         16.9-28           BRAKE SYSTEM         Wet Type Brake	Axle Drive		4X4						
Rear 16.9-28  BRAKE SYSTEM  Service Brake Wet Type Brake	TIRE								
BRAKE SYSTEM Service Brake Wet Type Brake	Front		16.9-28						
Service Brake Wet Type Brake	Rear		16.9-28						
	BRAKE SYSTEM								
	Service Brake			Wet Typ	e Brake				
	Parking Brake								

## **DIMENSIONS**

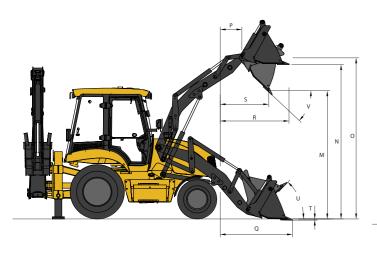


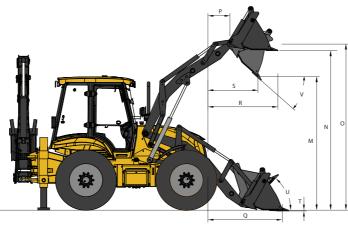


DIMENSION	DIMENSION			PBL488T-II				
			Standard Arm		Telescopic Arm			
			Type 1	Type 2	Type 1	Type 2		
Overall Length	А	mm	6450	6480	6450	6450		
Wheelbase	В	mm	2293	2293	2293	2293		
Distance from Arm Pivot to Rear Axle	С	mm	1381	1411	1381	1411		
Ground Clearance on Bracket	D	mm	475	475	475	475		
Ground Clearance on Arm Carrier	E	mm	648	618	648	618		
Steering Wheel Center Height	F	mm	2258	2258	2258	2258		
Cab Top Height	G	mm	3149	3149	3149	3149		
Overall Height	Н	mm	4010	3627	4010	3627		
Frame Width	J	mm	2280	2280	2280	2280		
Bucket Width	K	mm	2468	2468	2468	2468		



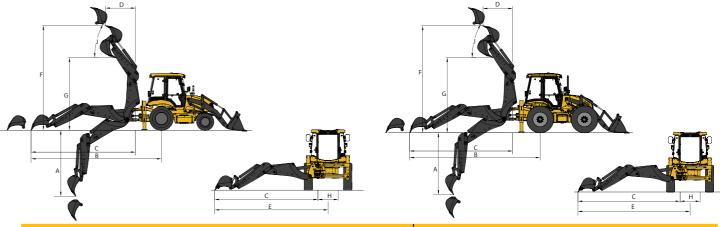
# **DIMENSIONS**





PARAMETERS SPECIFICATION	PBL480T-II			
LOADER			Common Bucket	6-in-1 Bucket
Uploading Height	М	mm	2807	2807
Load Over Height	N	mm	3360	3360
Loading Hinge Pin Height	0	mm	3498	3498
Pin Extends Forward	Р	mm	263	263
Reach To Ground (Main Blade Level)	Q	mm	1473	1473
Max. Reach at Full Height	R	mm	1126	1126
Unloading Distance	S	mm	801	801
Digging Depth	Т	mm	56	56
Take-Up Angle	U	0	46	46
Unloading Angle	V	0	43	43
Jaw Opening Width		mm	-	1000
Rated Capacity		m <sup>3</sup>	1.0	0.85

PARAMETERS SPECIFICATION	PBL488T-II			
LOADER			Common Bucket	6-in-1 Bucket
Uploading Height	М	mm	3153	3153
Load Over Height	N	mm	3732	3732
Loading Hinge Pin Height	0	mm	3868	3868
Pin Extends Forward	Р	mm	418	418
Reach To Ground (Main Blade Level)	Q	mm	1671	1671
Max. Reach at Full Height	R	mm	1327	1327
Unloading Distance	S	mm	989	989
Digging Depth	Т	mm	30	30
Take-Up Angle	U	0	45	45
Unloading Angle	V	0	43	43
Jaw Opening Width	•	mm	-	1000
Rated Capacity		m <sup>3</sup>	1.2	1.0



₹ '				•		'	1	
DIMENSION	PBL480T-II							
BACKHOE					Standard Arm		Telescopic Arm	
BACKHOE				Α	В	Α	В	
Max Diaging Dooth	Extend	А	mm	-	-	5246	4381	
Max. Digging Depth	Withdraw		mm	3967	3424	4303	3431	
Reach Flush With The Ground To	Extend	В	mm	-	-	7854	7663	
The Center Of The Rear Wheel	Withdraw		mm	6630	6784	6981	6791	
Reach Ground To Slewing Center	Extend	С	mm	-	-	6528	6307	
	Withdraw		mm	5304	5428	5655	5435	
Extension At Full Height To Rotary	Extend	D	mm	-	-	2303	2158	
Center Distance	Withdraw	D	mm	1902	1554	1692	1558	
Side Extension To The Centerline	Extend	E	mm	-	-	7055	6834	
Of The Machine	Withdraw		mm	5831	5955	6182	5962	
Marking Height	Extend	F	mm	-	-	6517	6191	
Working Height	Withdraw	「	mm	5346	5449	5790	5454	
May Looding Height	Extend	G	mm	-	-	4720	4525	
Max. Loading Height	Withdraw	aw	mm	3813	3780	4084	3785	
Total Travel Of Main Column	•	Н	mm	1054	1054	1054	1054	
DIMENSION				PBL488T-II				
BACKHOE				Standa	ırd Arm	Telescopic Arm		
BACKIOL				Α	В	А	В	
Max. Digging Depth	Extend	Extend A	mm	-	-	5045	4180	
	Withdraw	_ ^	mm	3766	3223	4102	3230	
Reach Flush With The Ground To	Extend	В	mm	-	-	7931	7707	
The Center Of The Rear Wheel	Withdraw	В	mm	6682	6825	7056	6832	
Reach Ground To Slewing Center	Extend	С	mm	-	-	6509	6295	
neach Ground to Siewing Center	Withdraw		mm	5260	5413	5634	5420	
Extension At Full Height To Rotary	Extend	D	mm	-	-	2303	2158	
Center Distance	Withdraw	D	mm	1902	1554	1692	1558	
Side Extension To The Centerline	Extend	E	mm	-	-	7036	6822	
Of The Machine	Withdraw		mm	5787	5940	6161	5947	
Working Hoight	Extend	F	mm	-	-	6718	6392	
Working Height	Withdraw		mm	5547	5650	5991	5655	
Mary Landing Linicia	Extend		mm	_	-	4923	4726	
May Loading Haight	LXtoria							
Max. Loading Height	Withdraw	G	mm	4014	3981	4285	3986	