## WHEELED EXCAVATORS WX188 | WX218





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SINCE 1842

# WHEELED EXCAVATORS



## THE "8 SERIES"

#### **POWER AND CONTROL**

The WX wheeled excavators are designed to deliver a maximum of productivity and precision.

The extra powerful hydraulics are managed by the Case Intelligent Hydraulic System (CIHS) control, which offers a single CPU for improved controllability and simplified diagnostics. The Case wheeled excavators use a 3-pump hydraulic system, with one pump dedicated to the slew function. This provides continuous movement and allows the operator to multi-function the controls for smooth, productive digging performance.

Case wheel excavators are equipped with Case Intelligent Swing system (CIS) allowing the operator to adjust the upperstructure slew speed to suit to all working site conditions.

Two new working modes, easily switchable on the joystick, have been implemented to better adapt the machine behaviour to specific tasks: STANDARD MODE suited for general applications and precision grading with maximum fuel savings; POWER MODE for a maximised production and faster cycles.

The Automatic Powerboost function delivers maximum performance for heavy breakout and lifting operations. The Power Limit Control feature monitors the engine and hydraulic pumps to optimise power output.

#### SUPERIOR VERSATILITY



# WHEELED EXCAVATORS



#### **POWERTRAIN**

Our WX excavators drive through a fully automatic hydrostatic powershift transmission and heavy duty ZF axles, providing fast travel speed between working sites and excellent traction. An improved orbitrol steering system delivers effortless and precise control. A larger steering angle makes it even easier to move in confined areas. With a creep speed function and high ground clearance, the machines are also capable of tackling the toughest of site conditions.

Excellent drawbar pull is a feature of all three machines and the axles have an auto-locking feature for maximum stability when working without stabilisers. Multi-disc wet brakes and axle oil change intervals of 2,000 hours will reduce your customers' ownership and operating costs.

#### **TOTAL STABILITY**

The new WX design leads to an outstanding stability even on tires only.

Our wheeled excavators have always boasted a robust design and sturdy build quality. These new WX models are no exception, with a strong chassis providing the option of a dozer blade, the dozer blade and stabilisers, or stabilisers front and rear for total balance and a stable working platform. The dozer blade with parallel kinematics is made extra-robust in curved design for best material retention.



#### **EASY MAINTENANCE**

Big and wide-opening hoods provide easy access to all service points. Maintenance operations are quick and easy with the grouped, easily accessible greasing points, and easy to reach filters at the rear of the machine. The extended greasing intervals for the attachment (up to 500 hours) maximise uptime and lower operating costs.



#### **RADIATOR LAYOUT**

The side-by-side radiator layout results in an extremely reliable cooling performance and makes it easier to clean them. A front net keeps dust away from the radiators, lengthening the interval between cleanings.

### **SAFETY**

## **SAFE ATTACHMENT OPERATION**

Boom cylinders feature safety valves as standard. For added safety, a complete object handling kit (safety valves on dipper, loading hook, overload warning) and a heavy-duty holder for grabs are available as options.

## **ROPS/FOPS CAB**

The reinforced structure of the cab is ROPS and FOPS certified.



# WHEELED EXCAVATORS







#### FIRST-CLASS COMFORT

The inclination of the steering column is continuously adjustable to fit the operator's best working position; the controls are individually adjustable to match their preferences; the adjustable air suspended and heated seat combined with the ergonomic design of armrests and foot pedals provide the best possible workstation.

The tinted safety glass, sun blinds and transparent rain protection above the front window provide comfortable working conditions, while the automatic air conditioning maintains a comfortable in-cab climate for more productive work. A hot and cool box, plenty of storage compartments, a radio with USB support, a microphone for handsfree conversation, a front aux, port and a 12V auxiliary socket complete the operator's comfortable workstation.

### **EASY TO OPERATE**

The controls layout is designed to minimise fatigue, with all travel functions and switches easily accessible and grouped on the steering column. The machine's information is easy to access and understand on the in-cab monitor, so the operator can focus on the job. A new engine speed and working mode selection dial makes it easy for the operator to set the machine up in any working situation. The dial delivers low idle speed, two lifting modes, and three Eco working modes. It also provides access to the Heavy Mode for maximum digging performance. The new levelling mode can be easily activated in Eco or Heavy mode by simply pressing a switch on the right hand joystick. The blade and each of the stabilizers are proportionally operated. Each of the stabilizers can be easily activated by switches.



#### **ALL-ROUND VISIBILITY**

Large glazed surfaces, safety tinted glass, onepiece right-hand side window and large roof window provide superior visibility all around. Standard working lights on the boom and cab front

add to the excellent visibility.

The standard rear view camera further enhances visibility to the rear.

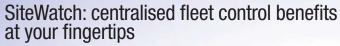
## TELEMATICS





## THE SCIENCE BIT

The CASE SiteWatch telematics system uses a high-tech control unit mounted on each machine to collate information from that machine and from GPS satellites. This data is then sent wirelessly through the mobile communication networks to the CASE Telematics Web Portal.



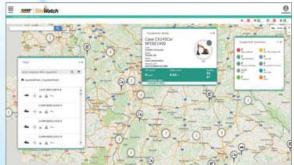
#### Measure your true asset availability and optimise it

- Eliminate the "phantom fleet": SiteWatch allows to identify spare units or under loaded machines on each site.
- Become able to reallocate units where they are more needed.
- Forward Maintenance Planning is easier since the actualised working hours are always available.
- Extend the benefits of SiteWatch to the rest of your fleet: SiteWatch can be installed on the units of other brands as well.

#### Challenge your Total Cost of Ownership!

- Being able to compare the fuel usage of different machine types will allow you choose the right equipment.
- Save on transport costs with planned and grouped maintenance tasks.
- Peace of mind, optimised uptime and lower repair costs: with preventive maintenance you can for example be alerted if the engine needs to be serviced and avoid a disruptive breakdown.
- Be able to compare your asset Return On Investment on different sites.
- Your equipment is used only during working hours. You can set up alerts so that you know if it is in use during the weekend or at night.







### STANDARD EQUIPMENT

Latest generation FPT Stage III / Tier 3 diesel engine Direct injection with turbo charger and charge air cooling Air filter with safety cartridge

Engine filters (oil, fuel and water separator) in remote position

Auto-idling system

Cold starting equipment (-25°C)

Pump management system by power limit control

Electrohydraulic servo control

3-pumps hydraulic system with two service pumps and seperate swing pump

Auto Power Boost system

8 selectable power stages with permanent Power Boost in lift stages

Automatic power increase in road travel mode

Automatic battery main switch (coupled to ignition key)

Electronic immobiliser (PIN code)

12 V electrical auxiliary supply in cab

Swing hydrostatic braking

Automatic / permanent swing brake modes

Swing drive with low-wearing disc brake

CIS (CASE intelligent system) : Adjustable swing acceleration (power) and deceleration (brake)

Cab according ROPS ISO 12117-2: 2008

FOPS Level 2

Noise-insulated and viscous mounted cab

Tinted safety glazing all around, full up and over windscreen

Sun blinds, large roof window, transparent rain protection

Automatic air conditioning

Rear View Camera with dedicated screen

Radio with Bluetooth

Control panel with LCD monitor integrating error diagnosis function and analogical gauges for engine cooling

temperature and fuel level

Ergonomic design of arm rests and foot pedals

Air suspension seat individually adjustable for height and . . ..

incline

Consoles adjustable for height and length

Forward/Reverse shifting on right joystick

Centralised and independent control of blade and stabilizers on right joystick

2 front headlights (cab mounted)

Road travel lights (front and rear)

Robust, shiled arc-welded, modular chassis in box section design

Power Shift gear box with manual / automatic gear shifting

Heavy duty axles with brakes for play-free work

Hydrostatic travel braking

Creeper speed

Large toolbox under the step (right side)

Encased ball bearing slew ring with long-life lubrication

Manual / automatic axle locking system

Electric diesel filling system

Safety valves on boom cylinders

Cylinders with end-stroke damping system

Long interval greasing bushings (500 hours)

Centralized greasing nipples on uppeframe and boom

2 working lights on boom

### **OPTIONS**

Hydraulic circuit for hammer / shears

Hydraulic circuit for grab rotation 22 I/min -

ON/OFF control

Hydraulic circuit for grab rotation 80 I/min -

PROPORTIONAL Control

Quick coupler provision on upperframe

Biodegradable hydraulic oil (Panolin)

Front Guard Protective system FGPS

20 km/h speed

35 km/h speed

Single or twin tyres

Dozer blade with parallel guidance

Heavy duty stabilizers with cylinder protection guards

Transport holder for clamshell grab

Blade cylinders protection guard

One piece boom, triple articulation (2 piece boom)

Arms: WX188: 2.20 - 2.60 - 3.10 m

WX218: 2.10 - 2.40 - 2.94 m

Object handling kit with safety valve on arm cylinder, overloading warning device and load hook or load eye.

Standard and optional equipment shown can vary by country.

## WHEELED EXCAVATORS

## **WX188**

### **SPECIFICATIONS**

#### **ENGINE**

Net flywheel power (ISO 14396/EC	E R120) 118 kW / 158 hp
Rated	2000 rpm
Make and model	F4GE9684E J607
Type	Water-cooled, direct injection type diesel
engine with intercooler turbo-charg	ger
Displacement	6.7 l
Number of cylinders	6
Bore x stroke	
Maximum torque at 1200 rpm	670 Nm

### **ELECTRICAL SYSTEM**

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### **TRANSMISSION**

	KIII/II	KIII/II	
Max Road travel speed	20	35	
Max Field travel speed	5	8	
Creep speed	2.5	2.5	
Maximum drawbar pull (field)			_115 kN
Decree Oliver on the above the selection of	ata a da ata ad		

Power Shift multi-disc gearbox shiftable under load.

Automatic or manual gear shift control.

Travel mode automatically engaged by pressing accelerator pedal.

## **HYDRAULIC SYSTEM**

2 x Primary pumps Total maximum flow	
Auxiliary low flow, optional (on/off)	22 l/min
Auxiliary medium flow, optional (proport	ional) 80 I/min
Implement/travel pressure	340 / 370 bar
PowerBoost	370 bar
Swing circuit pressure	360 / 390 bar
Pilot pump	45 bar
Boom cylinder mono	115 x 1170 mm
Boom cylinder 2-piece boom	
Arm cylinder	125 x 1290 mm
Bucket cylinder	105 x 1025 mm

Positioning cylinder	155 x 745 mm
Cylinder end stroke damping.	
Electric by the Property of the Land	

Electrohydraulic servo-control.

Three-pump hydraulics with two main pumps and separate swing pump. 8 selectable power stages with permanent Power Boost in lift stages: Low idle, Lift 1, Lift 2, Eco 1, Eco 2, Eco 3, Heavy, Roadtravel Adjustable swing acceleration (power) and deceleration (brake) Automatic power increase in the drive mode.

#### **SWING DRIVE**

Swing speed9 r	pm
Swing torque 53 kl	١m
The swing function is operated bu a hydraulic closed circuit coupled with	a
mechanical reducer integrating an automatic static brake. The hudrostatic	;
swing brake is adjustable in 3 settings.	

#### **BRAKES**

Service brakes: play free, oil bath multi disc type integrated in all four wheel hubs. Work brake: acts on service brakes and locks front axle oscillation. Parking brake: spring type mechanical acting on the transmission. Emergency brake: double braking circuit and automatic parking and brake actuation with the engine shut down.

#### **STEERING**

Type	ORBITROL with safety valve
Pump	gear type
Steering cylinder	double effect, integrated in axle

#### **TYRES**

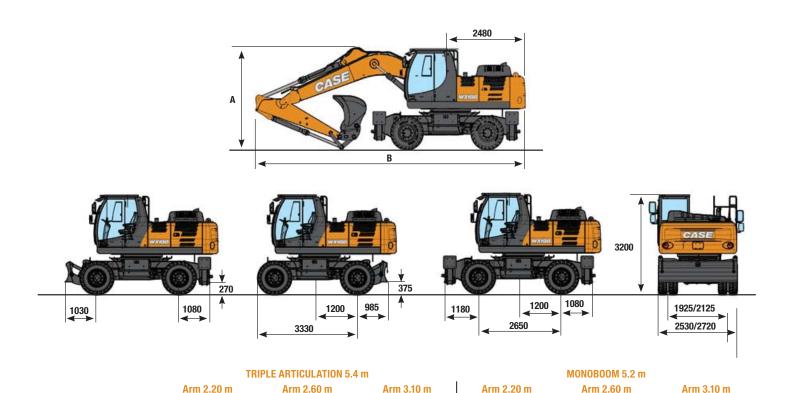
Twin tyres	10.00-20/80-22.5
Single tyres	18R 19.5, 600/40-22.5
Tyre availability can be limited by local homologation	

### **CAPACITIES**

Engine oil	15 I
Cooling system	22 I
Fuel tank	274
Hydraulic system (incl. tank)	235 I for mono
	250 I for triple articulation

## GENERAL DIMENSIONS WY188

#### Equipped with twin tires 10.00 - 20



### **OPERATING WEIGHT WX188**

2880 mm

8920 mm

8920 mm

Α

В

В

with rear blade

with rear stabilizers

#### 2.55 axle width include bucket 610 kg and quick coupler 250 kg (with 10.00-20)

2830 mm

8845 mm

8845 mm

		TRIPLE ARTICULATION			MONOBOOM	
	Arm 2.20 m	Arm 2.60 m	Arm 3.10 m	Arm 2.20 m	Arm 2.60 m	Arm 3.10 m
Rear blade	18550 kg	18600 kg	18700 kg	18150 kg	18200 kg	18300 kg
Stabilizers	18950 kg	19000 kg	19100 kg	18550 kg	18600 kg	18700 kg
Blade and stabilizers	19500 kg	19550 kg	19650 kg	19150 kg	19200 kg	19300 kg
Stabilizers rear and front	20000 kg	20050 kg	20150 kg	19650 kg	19700 kg	19800 kg

3490 mm

8835 mm

8835 mm

3120 mm

8890 mm

8895 mm

3200 mm

8810 mm

8810 mm

3800 mm

8820 mm

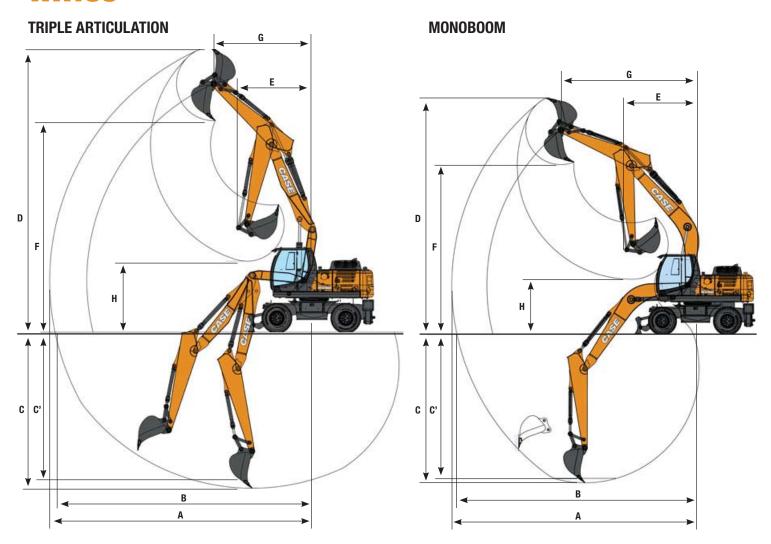
8820 mm

#### 2.75 axle width include bucket 610 kg and quick coupler 250 kg (with 11.00-20)

	TRIPLE ARTICULATION			MONOBOOM			
	Arm 2.20 m	Arm 2.60 m	Arm 3.10 m	Arm 2.20 m	Arm 2.60 m	Arm 3.10 m	
Rear blade	18650 kg	18700 kg	18800 kg	18250 kg	18300 kg	18400 kg	
Stabilizers	19050 kg	19100 kg	19200 kg	18650 kg	18700 kg	18800 kg	
Blade and stabilizers	19650 kg	19700 kg	19800 kg	19250 kg	19300 kg	19400 kg	
Stabilizers rear and front	20100 kg	20150 kg	20250 kg	19750 kg	19800 kg	19900 kg	

## **PERFORMANCE DATA**

## **WX188**



		TRIPLE ARTICULATION			MONOBOOM		
		Arm 2.20 m	Arm 2.60 m	Arm 3.10 m	Arm 2.20 m	Arm 2.60 m	Arm 3.10 m
Α	Max. digging reach	9000 mm	9400 mm	9900 mm	8900 mm	9300 mm	9800 mm
В	Max. digging reach at ground level	8800 mm	9200 mm	9700 mm	8700 mm	9100 mm	9600 mm
С	Max. digging depth	4900 mm	5300 mm	5800 mm	4900 mm	5300 mm	5800 mm
C'	Max. depth of cut for 8' level bottom	4800 mm	5200 mm	5700 mm	4700 mm	5100 mm	5700 mm
D	Max. digging height	10100 mm	10300 mm	10800 mm	9200 mm	9300 mm	9600 mm
Е	Min. front swing radius	3050 mm	2800 mm	2900 mm	3400 mm	3300 mm	3300 mm
F	Max. loading height	7400 mm	7600 mm	8000 mm	6500 mm	6600 mm	7000 mm
G	Front swing radius at max height	2900 mm	3200 mm	3500 mm	4400 mm	4800 mm	5200 mm
Н	Max. loading height (arm retracted)	3700 mm	3100 mm	2600 mm	3100 mm	2700 mm	2200 mm

## **DIGGING FORCE - ISO WX188**

	Arm 2.20 m	Arm 2.60 m	Arm 3.10 m
Arm digging force	98 kN	84 kN	73 kN
- with auto power boost	107 kN	91 kN	79 kN
Bucket digging force	125 kN	125 kN	125 kN
- with auto power boost	136 kN	136 kN	136 kN

#### MONO BOOM - DIPPERSTICK 2.20 m

#### **REAR BLADE UP**

	REACH										
Front	3.0	m	4.5	i m	6.0	) m	7.5	m	At max	reach	
Side	ļΝ	<del>   </del>	ηJ	<del>=</del>	Ψ	<del>   </del>	ΙΉ	<del>=</del> i	ΙΝ	<b>≑i</b> ⊸	m
7.5 m									4.5*	4.3	4.9
6.0 m					5.0	3.1			4.0*	2.8	6.3
4.5 m			7.3*	4.6	4.9	3.0			3.8	2.3	7.1
3.0 m			7.3	4.2	4.7	2.8			3.4	2.0	7.5
1.5 m			6.9	3.8	4.5	2.6	3.3	1.9	3.3	1.9	7.5
0 m			6.7	3.7	4.4	2.5			3.4	2.0	7.3
-1.5 m	11.2*	6.7	6.7	3.7	4.4	2.5			3.8	2.2	6.7
-3.0 m	9.8*	6.9	6.9	3.8					5.0	2.9	5.6

#### FRONT BLADE+REAR STAB. DOWN

						<b>REACH</b>					
<b>№</b> Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	ĮΝ	<del> -</del>	ΙΝ	<del>=</del>	Ψ	<del> - -</del> -	ļΠ	<del>=</del>	ΙΝ	<b>≑</b> i⊸	m
7.5 m									4.5*	4.5*	4.9
6.0 m					5.3*	5.3*			4.0*	4.0*	6.3
4.5 m			7.3*	7.3*	6.1*	5.3			3.9*	3.9*	7.1
3.0 m			8.8*	7.9	6.7*	5.1			4.0*	3.7	7.5
1.5 m			9.9*	7.4	7.2*	4.9	4.7*	3.6	4.3*	3.5	7.5
0 m			10.1*	7.3	7.4*	4.8			4.9*	3.7	7.3
-1.5 m	11.2*	11.2*	9.4*	7.3	6.9*	4.8			5.8*	4.1	6.7
-3.0 m	9.8*	9.8*	7.4*	7.4*					5.5*	5.4	5.6

#### MONO BOOM - DIPPERSTICK 2.60 m

#### **REAR BLADE UP**

	REACH										
<b>№ Front</b>	3.0	m	4.5	5 m	6.0	) m	7.5	m	At max	reach	
Side	ļΝ	<del>     </del>	ΙΝ	<del> </del>	Ψ	<del> </del>	Ψ	<del>   </del>	ŀη	₩-	m
7.5 m									3.0*	3.0*	5.4
6.0 m					4.6*	3.1			2.7*	2.6	6.7
4.5 m			6.7*	4.7	5.0	3.0			2.6*	2.1	7.4
3.0 m			7.4	4.3	4.8	2.8	3.4	2.0	2.7*	1.9	7.8
1.5 m			6.9	3.9	4.6	2.7	3.3	1.9	2.9*	1.8	7.9
0 m	6.0*	6.0*	6.7	3.7	4.4	2.5	3.3	1.9	3.2	1.8	7.7
-1.5 m	10.5*	6.6	6.7	3.7	4.4	2.5			3.5	2.0	7.1
-3.0 m	11.1*	6.8	6.8	3.7	4.5	2.6			4.4	2.6	6.1

#### FRONT BLADE+REAR STAB. DOWN

	REACH										
Front	3.0	) m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	ļΠ	<del> </del>	ΙΝ	₩-	ļΝ	<del> </del>	Ψ	<del> -</del>	Ιμ	<del> </del>	m
7.5 m									3.0*	3.0*	5.4
6.0 m					4.6*	4.6*			2.7*	2.7*	6.7
4.5 m			6.7*	6.7*	5.8*	5.3			2.6*	2.6*	7.4
3.0 m			8.3*	8.0	6.4*	5.1	4.4*	3.6	2.7*	2.7*	7.8
1.5 m			9.7*	7.5	7.0*	4.9	5.4*	3.6	2.9*	2.9*	7.9
0 m	6.0*	6.0*	10.1*	7.3	7.3*	4.8	4.6*	3.5	3.3*	3.3*	7.7
-1.5 m	10.5*	10.5*	9.6*	7.2	7.0*	4.7			4.1*	3.8	7.1
-3.0 m	11.1*	11.1*	8.1*	7.3	5.6*	4.8			5.5*	4.8	6.1

## MONO BOOM - DIPPERSTICK 3.10 m REAR BLADE UP

		REACH										
Front	3.0	m	4.5	i m	6.0	) m	7.5	m	At max	reach		
Side	ļΝ	<del>   </del>	η	<del>=</del> -	Ψ	<del>-</del>	ΙΉ	<del>-</del>	ŀη	<del>=</del> -	m	
7.5 m					2.5*	2.5*			2.2*	2.2*	6.1	
6.0 m					4.1*	3.2			1.9*	1.9*	7.3	
4.5 m					4.9*	3.0	3.3*	2.1	1.9*	1.9	8.0	
3.0 m	12.0*	7.7	7.5	4.3	4.8	2.8	3.4	2.0	1.9*	1.7	8.3	
1.5 m			7.0	3.9	4.5	2.6	3.3	1.9	2.0*	1.6	8.4	
0 m	6.3*	6.3*	6.7	3.6	4.4	2.5	3.2	1.8	2.3*	1.6	8.2	
-1.5 m	9.4*	6.4	6.6	3.6	4.3	2.4	3.2	1.8	2.8*	1.8	7.6	
-3.0 m	12.4*	6.6	6.6	3.6	4.3	2.4			3.7*	2.1	6.7	

#### FRONT BLADE+REAR STAB. DOWN

		REACH										
Front	3.0	) m	4.5	i m	6.0	m	7.5	m	At max	reach		
Side	ļΨ	<del> -</del>	l l	<del>=</del>	Ψ	<del> - -</del> -	Ψ	<del> </del>	ΙĮ	<del>=</del>	m	
7.5 m					2.5*	2.5*			2.2*	2.2*	6.1	
6.0 m					4.1*	4.1*			1.9*	1.9*	7.3	
4.5 m					4.9*	4.9*	3.3*	3.3*	1.9*	1.9*	8.0	
3.0 m	12.0*	12.0*	7.6*	7.6*	6.0*	5.1	4.5*	3.6	1.9*	1.9*	8.3	
1.5 m			9.2*	7.5	6.7*	4.9	5.5*	3.5	2.0*	2.0*	8.4	
0 m	6.3*	6.3*	10.0*	7.2	7.2*	4.7	5.6*	3.4	2.3*	2.3*	8.2	
-1.5 m	9.4*	9.4*	9.8*	7.1	7.1*	4.6	3.8*	3.4	2.8*	2.8*	7.6	
-3.0 m	12.4*	12.4*	8.6*	7.2	6.2*	4.7			3.7*	3.7*	6.7	

#### **REAR BLADE DOWN**

	REACH										
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	J.	<b>≑</b> i	Ιμ	<b>≑i</b> ⊸	Åη	<del>=</del> i	l <sub>l</sub> J	<b>≑i</b> ⊸	ļή	<del>†i</del> ⊸	m
7.5 m									4.5*	4.5*	4.9
6.0 m					5.3*	3.6			4.0*	3.3	6.3
4.5 m			7.3*	5.4	6.1*	3.5			3.9*	2.7	7.1
3.0 m			8.8*	4.9	6.7*	3.3			4.0*	2.4	7.5
1.5 m			9.9*	4.6	7.2	3.1	4.7*	2.3	4.3*	2.3	7.5
0 m			10.1*	4.4	7.1	3.0			4.9*	2.4	7.3
-1.5 m	11.2*	8.3	9.4*	4.4	6.9*	3.0			5.8*	2.7	6.7
-3.0 m	9.8*	8.5	7.4*	4.6					5.5*	3.4	5.6

#### FRONT+REAR STAB. DOWN

						<b>REACH</b>					
Front	3.0	m	4.5	m	6.0	) m	7.5	m	At max	reach	
Side	ŀΙ	<del>=</del>	Ιμ	<del>=</del>	Ψ	<del>=</del>	ΙΝ	<del>=</del>	Ψ	<del> - -</del> -	m
7.5 m									4.5*	4.5*	4.9
6.0 m					5.3*	5.3*			4.0*	4.0*	6.3
4.5 m			7.3*	7.3*	6.1*	6.1*			3.9*	3.9*	7.1
3.0 m			8.8*	8.8*	6.7*	6.2			4.0*	4.0*	7.5
1.5 m			9.9*	9.3	7.2*	6.0	4.7*	4.3	4.3*	4.3	7.5
0 m			10.1*	9.1	7.4*	5.9			4.9*	4.5	7.3
-1.5 m	11.2*	11.2*	9.4*	9.1	6.9*	5.9			5.8*	5.1	6.7
-3.0 m	9.8*	9.8*	7.4*	7.4*					5.5*	5.5*	5.6

#### **REAR BLADE DOWN**

						REACH					
<b>№</b> Front	3.0	) m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	l l	<del>=</del>	ŀΙ	<del>=</del>	ļΨ	<del>-</del>	Ιμ	₩-	Ιμ	<del> </del>	m
7.5 m									3.0*	3.0*	5.4
6.0 m					4.6*	3.6			2.7*	2.7*	6.7
4.5 m			6.7*	5.5	5.8*	3.5			2.6*	2.5	7.4
3.0 m			8.3*	5.0	6.4*	3.3	4.4*	2.4	2.7*	2.2	7.8
1.5 m			9.7*	4.6	7.0*	3.1	5.1	2.3	2.9*	2.1	7.9
0 m	6.0*	6.0*	10.1*	4.4	7.0	3.0	4.6*	2.2	3.3*	2.2	7.7
-1.5 m	10.5*	8.2	9.6*	4.4	7.0	3.0			4.1*	2.4	7.1
-3.0 m	11.1*	8.4	8.1*	4.5	5.6*	3.1			5.5*	3.0	6.1

#### FRONT+REAR STAB. DOWN

		REACH											
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach			
Side	\pl	<del>=</del>	l <sub>l</sub> l	<del>=</del>	ļΠ	<del>-</del>	Ιμ	<del>=</del>	Ψ	<del> </del>	m		
7.5 m									3.0*	3.0*	5.4		
6.0 m					4.6*	4.6*			2.7*	2.7*	6.7		
4.5 m			6.7*	6.7*	5.8*	5.8*			2.6*	2.6*	7.4		
3.0 m			8.3*	8.3*	6.4*	6.2	4.4*	4.4*	2.7*	2.7*	7.8		
1.5 m			9.7*	9.4	7.0*	6.0	5.4*	4.3	2.9*	2.9*	7.9		
0 m	6.0*	6.0*	10.1*	9.1	7.3*	5.9	4.6*	4.3	3.3*	3.3*	7.7		
-1.5 m	10.5*	10.5*	9.6*	9.1	7.0*	5.8			4.1*	4.1*	7.1		
-3.0 m	11.1*	11.1*	8.1*	8.1*	5.6*	5.6*			5.5*	5.5*	6.1		

#### **REAR BLADE DOWN**

						<b>REACH</b>					
<b>→</b> Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	Į.	<del>≓</del> i	lμ	<del>≓i</del>	ļμ	<del> </del>	lμ	<del>≓</del> i	Ψ	<del>≓i</del>	m
7.5 m					2.5*	2.5*			2.2*	2.2*	6.1
6.0 m					4.1*	3.7			1.9*	1.9*	7.3
4.5 m					4.9*	3.5	3.3*	2.4	1.9*	1.9*	8.0
3.0 m	12.0*	9.4	7.6*	5.1	6.0*	3.3	4.5*	2.4	1.9*	1.9*	8.3
1.5 m			9.2*	4.7	6.7*	3.1	5.0	2.3	2.0*	1.9	8.4
0 m	6.3*	6.3*	10.0*	4.4	7.0	3.0	4.9	2.2	2.3*	1.9	8.2
-1.5 m	9.4*	8.0	9.8*	4.3	6.9	2.9	3.8*	2.2	2.8*	2.1	7.6
-3.0 m	12.4*	8.1	8.6*	4.3	6.2*	2.9			3.7*	2.6	6.7

							<b>REACH</b>							
W	Front	3.0	m	4.5	m	6.0	) m	7.5	m	At max	reach			
計	Side	<b>№</b> ≠;		ŀΠ	<del>=</del> -	Ψ	<del>=</del>	ΙΝ	<del>=</del>	Ψ	<del> -</del>	m		
	7.5 m					2.5*	2.5*			2.2*	2.2*	6.1		
	6.0 m					4.1*	4.1*			1.9*	1.9*	7.3		
	4.5 m					4.9*	4.9*	3.3*	3.3*	1.9*	1.9*	8.0		
	3.0 m	12.0*	12.0*	7.6*	7.6*	6.0*	6.0*	4.5*	4.4	1.9*	1.9*	8.3		
	1.5 m			9.2*	9.2*	6.7*	6.0	5.5*	4.3	2.0*	2.0*	8.4		
	0 m	6.3*	6.3*	10.0*	9.1	7.2*	5.8	5.6*	4.2	2.3*	2.3*	8.2		
	-1.5 m	9.4*	9.4*	9.8*	9.0	7.1*	5.7	3.8*	3.8*	2.8*	2.8*	7.6		
	-3.0 m	12.4*	12.4*	8.6*	8.6*	6.2*	5.8			3.7*	3.7*	6.7		

## **WX188**

TRIPLE ARTICULATION - DIPPERSTICK 2.20 m

#### **REAR BLADE UP**

		REACH											
<b>→</b> Front	3.0	) m	4.5	5 m	6.0	) m	7.5	m	At max	reach			
Side	ļΝ	<del> </del>	η	<del>=</del>	Ψ	<del> </del>	Ψ	<del> </del>	ŀη	<del>=</del>	m		
7.5 m			6.3*	4.7					5.1*	3.9	5.0		
6.0 m			6.2*	4.8	4.9	2.9			4.4	2.6	6.4		
4.5 m	8.7*	8.3	7.1*	4.6	4.9	3.0			3.6	2.1	7.2		
3.0 m	8.1*	7.9	7.3	4.5	4.8	3.0	3.2	1.9	3.2	1.8	7.6		
1.5 m	11.5*	7.8	7.2*	4.5	4.8	2.9	3.2	1.8	3.1	1.8	7.6		
0 m	14.0	7.6	7.3	4.3	4.6	2.7			3.2	1.8	7.4		
-1.5 m	14.5	7.3	7.2	4.0	4.4	2.5			3.7	2.1	6.7		
-3.0 m	14.3	7.1	6.9	3.8					6.3	3.5	4.8		

#### FRONT BLADE+REAR STAB. DOWN

	REACH										
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	ĮΝ	<del> -</del>	l <sub>l</sub> l	<del>=</del>	ļΝ	<del> - -</del> -	ļΠ	<del>=</del>	ΙΝ	<b>≑</b> i⊸	m
7.5 m			6.3*	6.3*					5.1*	5.1*	5.0
6.0 m			6.2*	6.2*	5.7*	5.3			4.4*	4.4*	6.4
4.5 m	8.7*	8.7*	7.1*	7.1*	5.9*	5.2*			4.2*	3.8	7.2
3.0 m	8.1*	8.1*	8.6*	7.7	6.5*	5.1	4.7*	3.5	4.2*	3.5	7.6
1.5 m	11.5*	11.5*	9.7*	7.7	7.0*	5.2	5.4*	3.4	4.4*	3.4	7.6
0 m	14.7*	14.7*	10.0*	7.8	7.3*	5.0			4.9*	3.5	7.4
-1.5 m	16.4*	15.6	10.2*	7.7	7.4*	4.8			6.0*	4.0	6.7
-3.0 m	16.9*	15.7	9.8*	7.5					8.9*	6.8	4.8

#### TRIPLE ARTICULATION - DIPPERSTICK 2.60 m

#### **REAR BLADE UP**

	REACH										
Front	3.0	) m	4.5	i m	6.0	m	7.5	m	At max	reach	
Side			ŀη	<del>=</del>	Ψ	<del> -</del>	Ιμ	<del> </del>	ŀη	<del>=</del>	m
7.5 m			5.2*	4.8					3.4*	3.3	5.6
6.0 m			5.3*	4.8	4.9	3.1			3.0*	2.3	6.8
4.5 m	6.7*	6.7*	6.5*	4.7	4.9	3.1	3.2*	1.9	2.9*	1.9	7.5
3.0 m	10.2*	8.0	7.3	4.5	4.8	3.1	3.3	1.9	2.9*	1.7	7.9
1.5 m	11.7*	7.7	7.2	4.4	4.8	3.0	3.3	1.9	2.9	1.6	8.0
0 m	13.8	7.7	7.2	4.3	4.7	2.7	3.1	1.8	3.0	1.7	7.8
-1.5 m	14.3	7.3	7.3	4.1	4.4	2.5			3.3	1.9	7.2
-3.0 m	14.4	7.2	6.9	3.8					4.9	2.7	5.6

#### FRONT BLADE+REAR STAB. DOWN

		REACH										
Front	3.0	) m	4.5	m	6.0	m	7.5	m	At max	reach		
Side	ļΠ	<del>-</del>	Ψ	<del>=</del>	Ιμ	<del> - </del> -	Ιμ	<del>=</del>	Ιμ	<del> </del>	m	
7.5 m			5.2*	5.2*					3.4*	3.4*	5.6	
6.0 m			5.3*	5.3*	5.0*	5.0*			3.0*	3.0*	6.8	
4.5 m	6.7*	6.7*	6.5*	6.5*	5.6*	5.2*	3.2*	3.2*	2.9*	2.9*	7.5	
3.0 m	10.2*	10.2*	8.1*	7.8	6.2*	5.1	5.0*	3.6	2.9*	2.9*	7.9	
1.5 m	11.7*	11.7*	9.4*	7.6	6.9*	5.1	5.5*	3.5	3.1*	3.1*	8.0	
0 m	14.0*	14.0*	9.9*	7.7	7.2*	5.0	5.5*	3.4	3.4*	3.2	7.8	
-1.5 m	16.2*	15.4	10.1*	7.8	7.3*	4.8			4.1*	3.6	7.2	
-3.0 m	16.8*	15.9	10.4*	7.5					7.1*	5.3	5.6	

#### TRIPLE ARTICULATION - DIPPERSTICK 3.10 m

#### **REAR BLADE UP**

						<b>REACH</b>					
Front	3.0	m	4.5	m	6.0	) m	7.5	m	At max	reach	
Side	Ψ	<del>=</del> 1	Ιμ	<u> </u>	Ψ	<del>=</del> 1	Į.	<del>-</del>	Ιμ	<del>=</del>	m
9.0 m									3.3*	3.3*	4.3
7.5 m					3.3*	3.0*			2.5*	2.5*	6.3
6.0 m					4.2*	3.1			2.2*	2.0	7.4
4.5 m			4.8*	4.7	4.8*	3.1	3.4	2.0	2.1*	1.7	8.1
3.0 m	11.1*	8.0	7.3	4.5	4.8	3.0	3.4	2.0	2.1*	1.5	8.4
1.5 m	11.4*	7.7	7.0	4.4	4.7*	3.0	3.3	1.9	2.2*	1.4	8.5
0 m	13.0*	7.6	7.1	4.4	4.7	2.8	3.2	1.8	2.4*	1.5	8.3
-1.5 m	14.0	7.3	7.2	4.1	4.5	2.6	3.1	1.7	2.8*	1.6	7.7
-3.0 m	14.4	7.2	6.9	3.8	4.3	2.4			3.9	2.2	6.4

#### FRONT BLADE+REAR STAB. DOWN

_						<b>REACH</b>					
Front	3.0	) m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	Į.	<b>≓i</b> ⊸	Ψ	₩	Įμ	<b>₩</b>	ļμ	₩.	ή	₩	m
9.0 m									3.3*	3.3*	4.3
7.5 m					3.3*	3.3*			2.5*	2.5*	6.3
6.0 m					4.2*	4.2*			2.2*	2.2*	7.4
4.5 m			4.8*	4.8*	4.8*	4.8*	3.8*	3.6	2.1*	2.1*	8.1
3.0 m	11.1*	11.1*	7.4*	7.4*	5.8*	5.1	4.7*	3.6	2.1*	2.1*	8.4
1.5 m	11.4*	11.4*	8.9*	7.6	6.5*	5.0	5.2*	3.5	2.2*	2.2*	8.5
0 m	13.0*	13.0*	9.7*	7.6*	7.0*	5.1	5.5*	3.4	2.4*	2.4*	8.3
-1.5 m	15.5*	15.1	9.9*	7.8	7.1*	4.8	4.8*	3.3	2.8*	2.8*	7.7
-3.0 m	16.4*	15.8	10.2*	7.5	6.9*	4.7			4.2*	4.2*	6.4

#### **REAR BLADE DOWN**

	REACH										
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	11/	<del>=</del> -	ΙΝ	<del> </del>	ļ.	<del> </del>	Į.	<del>=</del> -	l <sub>l</sub> i	<del> </del>	m
7.5 m			6.3*	5.5					5.1*	4.6	5.0
6.0 m			6.2*	5.5	5.7*	3.4			4.4*	3.0	6.4
4.5 m	8.7*	8.7*	7.1*	5.4	5.9*	3.5			4.2*	2.5	7.2
3.0 m	8.1*	8.1*	8.6*	5.2	6.5*	3.5	4.7*	2.2	4.2*	2.2	7.6
1.5 m	11.5*	9.1	9.7*	5.2*	7.0	3.4	5.0*	2.2	4.4*	2.1	7.6
0 m	14.7*	9.2	10.0*	5.1	7.1	3.2			4.9*	2.2	7.4
-1.5 m	16.4*	8.9	10.2*	4.8	7.1	3.0			5.9	2.5	6.7
-3.0 m	16.9*	8.7	9.8*	4.6					8.9*	4.2	4.8

#### FRONT+REAR STAB. DOWN

						<b>REACH</b>					
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	l l	<b>≑</b> i	Ιμ	<b>≑i</b> ⊸	ļ.	<del>  </del>	l <sub>l</sub> i	₩-	ļ.	<b>≑i</b> ⊸	m
7.5 m			6.3*	6.3*					5.1*	5.1*	5.0
6.0 m			6.2*	6.2*	5.7*	5.7*			4.4*	4.4*	6.4
4.5 m	8.7*	8.7*	7.1*	7.1*	5.9*	5.9*			4.2*	4.2*	7.2
3.0 m	8.1*	8.1*	8.6*	8.6*	6.5*	6.1	4.7*	4.3	4.2*	4.2*	7.6
1.5 m	11.5*	11.5*	9.7*	9.2*	7.0*	6.1	5.4*	4.2	4.4*	4.1	7.6
0 m	14.7*	14.7*	10.0*	9.3	7.3*	6.1			4.9*	4.3	7.4
-1.5 m	16.4*	16.4*	10.2*	9.7	7.4*	5.9			6.0*	4.9	6.7
-3.0 m	16.9*	16.9*	9.8*	9.4					8.9*	8.5	4.8

#### **REAR BLADE DOWN**

						<b>REACH</b>					
<b>№</b> Front	3.0	m	4.5	m	6.0	) m	7.5	i m	At max	reach	
Side	ŀ	<del> </del>	Ή	<b>≑</b> i⊸	ļμ	<del>=</del>	l l	<del></del>	Ψ	<b>≑i</b> ⊸	m
7.5 m			5.2*	5.2*					3.4*	3.4*	5.6
6.0 m			5.3*	5.3*	5.0*	3.6			3.0*	2.8	6.8
4.5 m	6.7*	6.7*	6.5*	5.4	5.6*	3.6	3.2*	2.3	2.9*	2.3	7.5
3.0 m	10.2*	9.4	8.1*	5.2	6.2*	3.5*	5.0*	2.3	2.9*	2.0	7.9
1.5 m	11.7*	9.1*	9.4*	5.1	6.9*	3.5	5.0	2.2	3.1*	2.0	8.0
0 m	14.0*	9.3*	9.9*	5.1	7.0	3.2	4.9	2.1	3.4*	2.0	7.8
-1.5 m	16.2*	8.9	10.1*	4.9	7.1	3.0			4.1*	2.2	7.2
-3.0 m	16.8*	8.8	10.4*	4.6					7.1*	3.3	5.6

#### FRONT+REAR STAB. DOWN

	REACH											
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach		
Side	ŀ	<del>   </del>	Ιμ	<del> </del>	ļμ	<del>  </del>	ΙĮ	+	Ψ	₩-	m	
7.5 m			5.2*	5.2*					3.4*	3.4*	5.6	
6.0 m			5.3*	5.3*	5.0*	5.0*			3.0*	3.0*	6.8	
4.5 m	6.7*	6.7*	6.5*	6.5*	5.6*	5.6*	3.2*	3.2*	2.9*	2.9*	7.5	
3.0 m	10.2*	10.2*	8.1*	8.1*	6.2*	6.1	5.0*	4.3	2.9*	2.9*	7.9	
1.5 m	11.7*	11.7*	9.4*	9.2	6.9*	6.0	5.5*	4.2	3.1*	3.1*	8.0	
0 m	14.0*	14.0*	9.9*	9.2	7.2*	6.1	5.5*	4.2	3.4*	3.4*	7.8	
-1.5 m	16.2*	16.2*	10.1*	9.4*	7.3*	5.9			4.1*	4.1*	7.2	
-3.0 m	16.8*	16.8*	10.4*	9.4	_				7.1*	6.6	5.6	

#### **REAR BLADE DOWN**

		REACH											
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach			
Side	ŀī	<del>=</del>	Ιμ	<del>=</del>	ļΠ	<del>-</del>	ΙμΙ	<del> -</del>	Ψ	<del> </del>	m		
9.0 m									3.3*	3.3*	4.3		
7.5 m					3.3*	3.3*			2.5*	2.5*	6.3		
6.0 m					4.2*	3.6			2.2*	2.2*	7.4		
4.5 m			4.8*	4.8*	4.8*	3.6	3.8*	2.4	2.1*	2.0	8.1		
3.0 m	11.1*	9.4	7.4*	5.2	5.8*	3.5	4.7*	2.4	2.1*	1.8	8.4		
1.5 m	11.4*	9.1	8.9*	5.0	6.5*	3.4	5.0	2.3	2.2*	1.7	8.5		
0 m	13.0*	9.1*	9.7*	5.1	6.9*	3.3	4.9	2.1	2.4*	1.8	8.3		
-1.5 m	15.5*	8.9	9.9*	4.9	7.0	3.1	4.8*	2.0	2.8*	1.9	7.7		
-3.0 m	16.4*	8.8	10.2*	4.6	6.9	2.9			4.2*	2.6	6.4		

					REACH					
3.0	) m	4.5	m	6.0	) m	7.5	m	At max	reach	
Ψ	<b>≑</b> †	Ψ	<del>≑i</del> ⊸	ΨI	<b>≑i</b>	ΨI	<del>≐</del> i	Ψ	<b>≑</b> †⊸	m
								3.3*	3.3*	4.3
				3.3*	3.3*			2.5*	2.5*	6.3
				4.2*	4.2*			2.2*	2.2*	7.4
		4.8*	4.8*	4.8*	4.8*	3.8*	3.8*	2.1*	2.1*	8.1
11.1*	11.1*	7.4*	7.4*	5.8*	5.8*	4.7*	4.3	2.1*	2.1*	8.4
11.4*	11.4*	8.9*	8.9*	6.5*	5.9	5.2*	4.2	2.2*	2.2*	8.5
13.0*	13.0*	9.7*	9.1	7.0*	5.9	5.5*	4.2	2.4*	2.4*	8.3
15.5*	15.5*	9.9*	9.2*	7.1*	5.9	4.8*	4.1	2.8*	2.8*	7.7
16.4*	16.4*	10.2*	9.4	6.9*	5.7			4.2*	4.2*	6.4
	11.1* 11.4* 13.0* 15.5*	11.1* 11.1* 11.4* 11.4* 13.0* 13.0* 15.5* 15.5*	11.1* 11.1* 7.4* 11.4* 11.4* 8.9* 13.0* 13.0* 9.7* 15.5* 15.5* 9.9*	4.8* 4.8* 11.1* 11.1* 7.4* 7.4* 11.4* 11.4* 8.9* 8.9* 13.0* 13.0* 9.7* 9.1 15.5* 15.5* 9.9* 9.2*		3.0 m 4.5 m 6.0 m  3.3* 3.3*  3.3* 3.3*  4.2* 4.2*  4.8* 4.8* 4.8* 4.8*  11.1* 11.1* 7.4* 7.4* 5.8* 5.8*  11.4* 11.4* 8.9* 8.9* 6.5* 5.9  13.0* 13.0* 9.7* 9.1 7.0* 5.9  15.5* 15.5* 9.9* 9.2* 7.1* 5.9	3.0 m 4.5 m 6.0 m 7.5  3.3* 3.3* 3.3*  4.8* 4.8* 4.8* 4.8* 3.8*  11.1* 11.1* 7.4* 7.4* 5.8* 5.8* 4.7*  11.4* 11.4* 8.9* 8.9* 6.5* 5.9 5.2*  13.0* 13.0* 9.7* 9.1 7.0* 5.9 5.5*  15.5* 15.5* 9.9* 9.2* 7.1* 5.9 4.8*	3.0 m 4.5 m 6.0 m 7.5 m	3.0 m 4.5 m 6.0 m 7.5 m At max 3.3* 3.3* 3.3* 2.5* 4.2* 4.2* 4.2* 4.2* 4.2* 4.2* 4.2* 4.2	3.0 m 4.5 m 6.0 m 7.5 m At max reach  3.3 * 3.3 * 3.3 * 2.5 * 2.5 *  4.2 * 4.2 * 4.2 * 2.2 * 2.2 *  4.8 * 4.8 * 4.8 * 4.8 * 4.8 * 3.8 * 3.8 * 2.1 * 2.1 *  11.1 * 11.1 * 7.4 * 7.4 * 5.8 * 5.8 * 4.7 * 4.3 2.1 * 2.1 *  11.4 * 11.4 * 8.9 * 8.9 * 6.5 * 5.9 5.2 * 4.2 2.2 * 2.2 *  13.0 * 13.0 * 9.7 * 9.1 * 7.0 * 5.9 5.5 * 4.2 2.4 * 2.4 *  15.5 * 15.5 * 9.9 * 9.2 * 7.1 * 5.9 4.8 * 4.1 2.8 * 2.8 *

**WX188** 

#### MONO BOOM - DIPPERSTICK 2.20 m - AXLE 2.75 m

#### **REAR BLADE UP**

						REACH					
<b>→</b> Front	3.0	m	4.5	5 m	6.0	) m	7.5	m	At max	reach	
Side	ļΠ	<del> </del>	ΙΝ	<del>  </del>	Ψ	<b>#</b>	Ψ	<del> </del>	ŀη	<del> </del>	m
7.5 m									4.5*	4.5*	4.9
6.0 m					5.0	3.5			4.0*	3.2	6.3
4.5 m			7.3*	5.2	4.9	3.4			3.8	2.6	7.1
3.0 m			7.3	4.8	4.8	3.2			3.4	2.3	7.5
1.5 m			6.9	4.4	4.6	3.0	3.3	2.2	3.3	2.2	7.5
0 m			6.7	4.3	4.5	2.9			3.4	2.3	7.3
-1.5 m	11.2*	7.9	6.7	4.3	4.4	2.9			3.9	2.6	6.7
-3.0 m	9.8*	8.2	6.9	4.4					5.0	3.3	5.6

#### FRONT BLADE+REAR STAB. DOWN

		REACH												
→ Front	3.0 m		4.5	m	6.0	m	7.5	m	At max	reach				
Side	ļΠ	<del> </del>	Ιμ	₩-	Ψ	<del> </del>	ļμ	<del>   </del>	η	₩-	m			
7.5 m									4.5*	4.5*	4.9			
6.0 m					5.3*	5.3*			4.0*	4.0*	6.3			
4.5 m			7.3*	7.3*	6.1*	5.5			3.9*	3.9*	7.1			
3.0 m			8.8*	8.2	6.7*	5.3			4.0*	3.8	7.5			
1.5 m			9.9*	7.8	7.2*	5.1	4.7*	3.7	4.3*	3.7	7.5			
0 m			10.1*	7.6	7.4*	5.0			4.9*	3.8	7.3			
-1.5 m	11.2*	11.2*	9.4*	7.6	6.9*	5.0			5.8*	4.3	6.7			
-3.0 m	9.8*	9.8*	7.4*	7.4*					5.5*	5.5*	5.6			

#### MONO BOOM - DIPPERSTICK 2.60 m - AXLE 2.75 m

#### **REAR BLADE UP**

		REACH												
Front	3.0 m		4.5	m	6.0	m	7.5	m	At max	reach				
Side	ļJ	<del>   </del>	η	<del>=</del>	ļή	<del> -</del>	ļμ	<del>=</del> i	ΙΝ	<b>≑</b> †⊸	m			
7.5 m									3.0*	3.0*	5.4			
6.0 m					4.6*	3.5			2.7*	2.7*	6.7			
4.5 m			6.7*	5.3	5.0	3.4			2.6*	2.4	7.4			
3.0 m			7.4	4.9	4.8	3.2	3.4	2.3	2.7*	2.2	7.8			
1.5 m			7.0	4.5	4.6	3.0	3.3	2.2	2.9*	2.1	7.9			
0 m	6.0*	6.0*	6.7	4.3	4.4	2.9	3.3	2.2	3.2	2.1	7.7			
-1.5 m	10.5*	7.8	6.7	4.3	4.4	2.9			3.5	2.3	7.1			
-3.0 m	11.1*	8.0	6.8	4.3	4.5	3.0			4.4	2.9	6.1			

#### FRONT BLADE+REAR STAB. DOWN

		REACH												
<b>▶</b> Front	3.0	m	4.5	m	6.0	) m	7.5	m	At max	reach				
Side	ļΠ	<del> -</del>	Ψ	<del>=</del>	Ψ	+	Ιμ	<del>=</del>	Ιμ	<del> </del>	m			
7.5 m									3.0*	3.0*	5.4			
6.0 m					4.6*	4.6*			2.7*	2.7*	6.7			
4.5 m			6.7*	6.7*	5.8*	5.5			2.6*	2.6*	7.4			
3.0 m			8.3*	8.3*	6.4*	5.3	4.4*	3.8	2.7*	2.7*	7.8			
1.5 m			9.7*	7.9	7.0*	5.1	5.4*	3.7	2.9*	2.9*	7.9			
0 m	6.0*	6.0*	10.1*	7.6	7.3*	5.0	4.6*	3.7	3.3*	3.3*	7.7			
-1.5 m	10.5*	10.5*	9.6*	7.6	7.0*	4.9			4.1*	4.0	7.1			
-3.0 m	11.1*	11.1*	8.1*	7.7	5.6*	5.0			5.5*	5.0	6.1			

#### MONO BOOM - DIPPERSTICK 3.10 m - AXLE 2.75 m

#### **REAR BLADE UP**

	REACH										
Front	3.0	m	4.5	m	6.0	) m	7.5	m	At max	reach	
Side	Ψ	<del> </del>	Ψ	<del>   </del>	ĥΙ	<b>#</b>	Ψį	<del> </del>	ŀη	<del> </del>	m
7.5 m					2.5*	2.5*			2.2*	2.2*	6.1
6.0 m					4.1*	3.6			1.9*	1.9*	7.3
4.5 m					4.9*	3.4	3.3*	2.4	1.9*	1.9*	8.0
3.0 m	12.0*	9.1	7.5	5.0	4.8	3.2	3.4	2.3	1.9*	1.9	8.3
1.5 m			7.0	4.5	4.6	3.0	3.3	2.2	2.0*	1.8	8.4
0 m	6.3*	6.3*	6.7	4.2	4.4	2.9	3.2	2.1	2.3*	1.9	8.2
-1.5 m	9.4*	7.6	6.6	4.2	4.3	2.8	3.2	2.1	2.8*	2.0	7.6
-3.0 m	12.4*	7.8	6.6	4.2	4.4	2.8			3.7*	2.5	6.7

#### FRONT BLADE+REAR STAB. DOWN

	REACH										
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	Ņ	<del> </del>	l <sub>l</sub> i	₩-	ļή	<del>   </del>	Ψ	<del> </del>	ΙΝ	<b>≑i</b> ⊸	m
7.5 m					2.5*	2.5*			2.2*	2.2*	6.1
6.0 m					4.1*	4.1*			1.9*	1.9*	7.3
4.5 m					4.9*	4.9*	3.3*	3.3*	1.9*	1.9*	8.0
3.0 m	12.0*	12.0*	7.6*	7.6*	6.0*	5.3	4.5*	3.8	1.9*	1.9*	8.3
1.5 m			9.2*	7.9	6.7*	5.1	5.5*	3.7	2.0*	2.0*	8.4
0 m	6.3*	6.3*	10.0*	7.6	7.2*	4.9	5.6*	3.6	2.3*	2.3*	8.2
-1.5 m	9.4*	9.4*	9.8*	7.5	7.1*	4.9	3.8*	3.6	2.8*	2.8*	7.6
-3.0 m	12.4*	12.4*	8.6*	7.5	6.2*	4.9			3.7*	3.7*	6.7

#### **REAR BLADE DOWN**

	REACH										
<b>№ Front</b>	3.0	) m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	ŀ	<del> </del>	Ψ	<del>=</del>	ÅΙ	<del>   </del>	ΙΝ	<del> </del>	Ψ	<b>₩</b>	m
7.5 m									4.5*	4.5*	4.9
6.0 m					5.3*	3.9			4.0*	3.6	6.3
4.5 m			7.3*	5.9	6.1*	3.8			3.9*	2.9	7.1
3.0 m			8.8*	5.5	6.7*	3.6			4.0*	2.6	7.5
1.5 m			9.9*	5.1	7.2*	3.5	4.7*	2.5	4.3*	2.5	7.5
0 m			10.1*	4.9	7.1	3.4			4.9*	2.6	7.3
-1.5 m	11.2*	9.4	9.4*	5.0	6.9*	3.3			5.8*	2.9	6.7
-3.0 m	9.8*	9.6	7.4*	5.1					5.5*	3.8	5.6

#### FRONT+REAR STAB. DOWN

						<b>REACH</b>					
<b>№</b> Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	Ψ	<del>=</del> -	Ιμ	<del>=</del>	Ψ	<del>=</del>	l <sub>l</sub> l	<del>=</del>	ļΝ	<del> </del>	m
7.5 m									4.5*	4.5*	4.9
6.0 m					5.3*	5.3*			4.0*	4.0*	6.3
4.5 m			7.3*	7.3*	6.1*	6.1*			3.9*	3.9*	7.1
3.0 m			8.8*	8.8*	6.7*	6.2			4.0*	4.0*	7.5
1.5 m			9.9*	9.4	7.2*	6.0	4.7*	4.3	4.3*	4.3*	7.5
0 m			10.1*	9.2	7.4*	5.9			4.9*	4.5	7.3
-1.5 m	11.2*	11.2*	9.4*	9.2	6.9*	5.9			5.8*	5.1	6.7
-3.0 m	9.8*	9.8*	7.4*	7.4*					5.5*	5.5*	5.6

#### **REAR BLADE DOWN**

_		REACH												
<b>№ Front</b>	3.0 m		4.5	m	6.0	m	7.5	m	At max	reach				
Side	Ιμ	<del>=</del>	ΙΙ	<del> -</del>	Ψ	<del>=</del>	ŀ	<del>=</del>	ΙĮĮ	<del> - -</del> -	m			
7.5 m									3.0*	3.0*	5.4			
6.0 m					4.6*	4.0			2.7*	2.7*	6.7			
4.5 m			6.7*	6.0	5.8*	3.8			2.6*	2.6*	7.4			
3.0 m			8.3*	5.6	6.4*	3.7	4.4*	2.6	2.7*	2.4	7.8			
1.5 m			9.7*	5.2	7.0*	3.5	5.1	2.5	2.9*	2.4	7.9			
0 m	6.0*	6.0*	10.1*	4.9	7.1	3.3	4.6*	2.5	3.3*	2.4	7.7			
-1.5 m	10.5*	9.3	9.6*	4.9	7.0	3.3			4.1*	2.7	7.1			
-3.0 m	11.1*	9.5	8.1*	5.0	5.6*	3.4			5.5*	3.3	6.1			

#### FRONT+REAR STAB. DOWN

		REACH												
<b>№ Front</b>	3.0	m	4.5	m	6.0	) m	7.5	m	At max	reach				
Side	Ιμ	<del> </del>	Ψ	<del>=</del>	ļμ	<del> </del>	Ιμ	<del> </del>	Ψ	<del> </del>	m			
7.5 m									3.0*	3.0*	5.4			
6.0 m					4.6*	4.6*			2.7*	2.7*	6.7			
4.5 m			6.7*	6.7*	5.8*	5.8*			2.6*	2.6*	7.4			
3.0 m			8.3*	8.3*	6.4*	6.2	4.4*	4.4*	2.7*	2.7*	7.8			
1.5 m			9.7*	9.4	7.0*	6.0	5.4*	4.3	2.9*	2.9*	7.9			
0 m	6.0*	6.0*	10.1*	9.2	7.3*	5.9	4.6*	4.3	3.3*	3.3*	7.7			
-1.5 m	10.5*	10.5*	9.6*	9.1	7.0*	5.9			4.1*	4.1*	7.1			
-3.0 m	11.1*	11.1*	8.1*	8.1*	5.6*	5.6*	·		5.5*	5.5*	6.1			

#### **REAR BLADE DOWN**

			REACH											
	Front	3.0 m		4.5	m	6.0	m	7.5	m	At max	reach			
	Side			Ψ	<del>=</del>	ÅΙ	<del>   </del>	Ιμ	₩-	ļΠ	<b>₩</b>	m		
	7.5 m					2.5*	2.5*			2.2*	2.2*	6.1		
	6.0 m					4.1*	4.0			1.9*	1.9*	7.3		
١	4.5 m					4.9*	3.9	3.3*	2.7	1.9*	1.9*	8.0		
	3.0 m	12.0*	10.6	7.6*	5.6	6.0*	3.7	4.5*	2.6	1.9*	1.9*	8.3		
	1.5 m			9.2*	5.2	6.7*	3.4	5.1	2.5	2.0*	2.0*	8.4		
	0 m	6.3*	6.3*	10.0*	4.9	7.0	3.3	5.0	2.4	2.3*	2.1	8.2		
	-1.5 m	9.4*	9.1	9.8*	4.8	7.0	3.2	3.8*	2.4	2.8*	2.3	7.6		
1	-30 m	12 //*	0.2	8.6*	/ Q	6.2*	3 3			3.7*	2.8	6.7		

						<b>REACH</b>					
<b>→</b> Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	Į.	<del>=</del> i	l <sub>l</sub> l	<del> </del>	Åη	<del>=</del> i	ΙΝ	₩-	Ιμ	<del>   </del>	m
7.5 m					2.5*	2.5*			2.2*	2.2*	6.1
6.0 m					4.1*	4.1*			1.9*	1.9*	7.3
4.5 m					4.9*	4.9*	3.3*	3.3*	1.9*	1.9*	8.0
3.0 m	12.0*	12.0*	7.6*	7.6*	6.0*	6.0*	4.5*	4.4	1.9*	1.9*	8.3
1.5 m			9.2*	9.2*	6.7*	6.0	5.5*	4.3	2.0*	2.0*	8.4
0 m	6.3*	6.3*	10.0*	9.1	7.2*	5.8	5.6*	4.2	2.3*	2.3*	8.2
-1.5 m	9.4*	9.4*	9.8*	9.0	7.1*	5.8	3.8*	3.8*	2.8*	2.8*	7.6
-3.0 m	12.4*	12.4*	8.6*	8.6*	6.2*	5.8			3.7*	3.7*	6.7

## **WX188**

#### TRIPLE ARTICULATION - DIPPERSTICK 2.20 m - AXLE 2.75 m

#### **REAR BLADE UP**

		REACH											
Front	3.0	) m	4.5	m	6.0	) m	7.5	m	At max	reach			
Side	ļΊ	<b>+</b>	ŀη	<del>   </del>	Ψ	<b>+</b>	Ψ	<del>  </del>	ŀη	<del>  </del>	m		
7.5 m			6.3*	5.4					5.1*	4.4	5.0		
6.0 m			6.2*	5.4	4.9	3.3			4.4	3.0	6.4		
4.5 m	8.7*	8.7*	7.1*	5.2	4.9	3.4			3.6	2.4	7.2		
3.0 m	8.1*	8.1*	7.3	5.1	4.9	3.4	3.3	2.2	3.2	2.1	7.6		
1.5 m	11.5*	8.9	7.2*	5.0	4.8	3.3	3.2	2.1	3.1	2.0	7.6		
0 m	14.0	8.9	7.3	4.9	4.6	3.1			3.2	2.1	7.4		
-1.5 m	14.6	8.6	7.2	4.7	4.4	2.9			3.7	2.4	6.7		
-3.0 m	14.3	8.4	6.9	4.4					6.3	4.0	4.8		

#### FRONT BLADE+REAR STAB. DOWN

		REACH										
→ Front	3.0	) m	4.5	m	6.0	m	7.5	m	At max	reach		
Side	ļΝ	<del> </del>	Ψ	₩-	Ψ	<del> </del>	Ψ	<del>=</del>	Ιμ	<del> </del>	m	
7.5 m			6.3*	6.3*					5.1*	5.1*	5.0	
6.0 m			6.2*	6.2*	5.7*	5.5			4.4*	4.4*	6.4	
4.5 m	8.7*	8.7*	7.1*	7.1*	5.9*	5.4			4.2*	4.0	7.2	
3.0 m	8.1*	8.1*	8.6*	8.0	6.5*	5.3	4.7*	3.7	4.2*	3.6	7.6	
1.5 m	11.5*	11.5*	9.7*	8.0	7.0*	5.3	5.4*	3.6	4.4*	3.5	7.6	
0 m	14.7*	14.7*	10.0*	8.1	7.3*	5.2			4.9*	3.6	7.4	
-1.5 m	16.4*	16.2	10.2*	8.1	7.4*	5.0			6.0*	4.2	6.7	
-3.0 m	16.9*	16.7	9.8*	7.8					8.9*	7.1	4.8	

#### TRIPLE ARTICULATION - DIPPERSTICK 2.60 m - AXLE 2.75 m

#### REAR BLADE UP

		REACH										
<b>№ Front</b>	3.0	) m	4.5	5 m	6.0	) m	7.5	m	At max	reach		
Side	ļΊ	<b>+</b>	Ψ	<del> </del>	Ψ	<b>#</b>	Ψį	<del>  </del>	ŀη	<del> </del>	m	
7.5 m			5.2*	5.2*					3.4*	3.4*	5.6	
6.0 m			5.3*	5.3*	5.0	3.5			3.0*	2.7	6.8	
4.5 m	6.7*	6.7*	6.5*	5.3	4.9	3.5	3.2*	2.2	2.9*	2.2	7.5	
3.0 m	10.2*	9.0	7.3	5.1	4.8	3.5	3.3	2.2	2.9*	2.0	7.9	
1.5 m	11.7*	8.9	7.2	5.0	4.8	3.4	3.3	2.2	2.9	1.9	8.0	
0 m	13.9	9.0	7.3	5.0	4.7	3.1	3.2	2.1	3.0	1.9	7.8	
-1.5 m	14.3	8.6	7.3	4.7	4.5	2.9			3.4	2.2	7.2	
-3.0 m	14.5	8.5	6.9	4.4					4.9	3.2	5.6	

#### FRONT BLADE+REAR STAB. DOWN

		REACH										
Front	3.0	) m	4.5	m	6.0	m	7.5	m	At max	reach		
Side	Ţ	<del> </del>	Ψ	<del>=</del>	ΙŢ	<del> - </del> -	ΨJ	<del>=</del>	ΙΝ	<del> </del>	m	
7.5 m			5.2*	5.2*					3.4*	3.4*	5.6	
6.0 m			5.3*	5.3*	5.0*	5.0*			3.0*	3.0*	6.8	
4.5 m	6.7*	6.7*	6.5*	6.5*	5.6*	5.4*	3.2*	3.2*	2.9*	2.9*	7.5	
3.0 m	10.2*	10.2*	8.1*	8.1	6.2*	5.3	5.0*	3.7	2.9*	2.9*	7.9	
1.5 m	11.7*	11.7*	9.4*	7.9	6.9*	5.3	5.5*	3.6	3.1*	3.1*	8.0	
0 m	14.0*	14.0*	9.9*	8.0	7.2*	5.2	5.5*	3.6	3.4*	3.4	7.8	
-1.5 m	16.2*	16.0*	10.1*	8.2	7.3*	5.0			4.1*	3.8	7.2	
-3.0 m	16.8*	16.8*	10.4*	7.8					7.1*	5.5	5.6	

#### TRIPLE ARTICULATION - DIPPERSTICK 3.10 m - AXLE 2.75 m

#### **REAR BLADE UP**

		3.0 m 4.5 m 6.0 m 7.5 m At max reach										
Front	3.0	m	4.5	i m	6.0	) m	7.5	m	At max	reach		
Side	h)	<b>≓i</b> ⊸	Ψ	₩.	Ψ	<del> </del>  -	Ψ	<del>-</del>	Ψ	<b>≑i</b> ⊸	m	
9.0 m									3.3*	3.3*	4.3	
7.5 m					3.3*	3.3*			2.5*	2.5*	6.3	
6.0 m					4.2*	3.5			2.2*	2.2*	7.4	
4.5 m			4.8*	4.8*	4.8*	3.5	3.4	2.3	2.1*	1.9	8.1	
3.0 m	11.1*	9.1	7.3	5.0	4.8	3.4*	3.4	2.3	2.1*	1.7	8.4	
1.5 m	11.4*	8.7	7.1	4.9	4.7*	3.4	3.3	2.2	2.2*	1.7	8.5	
0 m	13.0*	8.8	7.1	4.9	4.7	3.2	3.2	2.1	2.4*	1.7	8.3	
-1.5 m	14.0	8.6	7.3	4.7	4.5	3.0	3.1	2.0	2.8*	1.9	7.7	
-3.0 m	14.4	8.4	7.0	4.4	4.3	2.8			3.9	2.5	6.4	

#### FRONT BLADE+REAR STAB. DOWN

						<b>REACH</b>					
<b>№</b> Front	3.0	) m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	ĮΝ	<del> </del>	l <sub>l</sub> i	<b>₩</b>	μJ	<del> </del>	Į.	<del>  </del>	Ш	<b>≑</b> †⊸	m
9.0 m							•		3.3*	3.3*	4.3
7.5 m					3.3*	3.3*			2.5*	2.5*	6.3
6.0 m					4.2*	4.2*			2.2*	2.2*	7.4
4.5 m			4.8*	4.8*	4.8*	4.8*	3.8*	3.8	2.1*	2.1*	8.1
3.0 m	11.1*	11.1*	7.4*	7.4*	5.8*	5.3	4.7*	3.7	2.1*	2.1*	8.4
1.5 m	11.4*	11.4*	8.9*	7.9	6.5*	5.2	5.2*	3.7	2.2*	2.2*	8.5
0 m	13.0*	13.0*	9.7*	7.8	7.0*	5.2*	5.5*	3.6	2.4*	2.4*	8.3
-1.5 m	15.5*	15.5*	9.9*	8.1	7.1*	5.1	4.8*	3.5	2.8*	2.8*	7.7
-3.0 m	16.4*	16.3*	10.2*	7.9	6.9*	4.9*			4.2*	4.2*	6.4

#### **REAR BLADE DOWN**

						<b>REACH</b>					
<b>№</b> Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	ŀ	<del>=</del>	ΙΝ	<del> </del>	'n	<del>   </del>	Ψ	+	Ψ	<del> </del>	m
7.5 m			6.3*	6.0					5.1*	5.0	5.0
6.0 m			6.2*	6.0	5.7*	3.8			4.4*	3.3	6.4
4.5 m	8.7*	8.7*	7.1*	5.8	5.9*	3.9			4.2*	2.7	7.2
3.0 m	8.1*	8.1*	8.6*	5.7	6.5*	3.8	4.7*	2.5	4.2*	2.4	7.6
1.5 m	11.5*	10.1	9.7*	5.6	7.0*	3.7	5.0	2.4	4.4*	2.3	7.6
0 m	14.7*	10.4	10.0*	5.6	7.1*	3.5			4.9*	2.4	7.4
-1.5 m	16.4*	10.1	10.2*	5.3	7.1	3.3			5.9	2.8	6.7
-3.0 m	16.9*	9.9	9.8*	5.1					8.9*	4.6	4.8

#### FRONT+REAR STAB. DOWN

						REACH					
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	Į.	<del>=</del>	Ϊij	<del> </del>	ļΠ	<del>  -</del> -	Ιį	<del>=</del>	ļij	₩-	m
7.5 m			6.3*	6.3*					5.1*	5.1*	5.0
6.0 m			6.2*	6.2*	5.7*	5.7*			4.4*	4.4*	6.4
4.5 m	8.7*	8.7*	7.1*	7.1*	5.9*	5.9*			4.2*	4.2*	7.2
3.0 m	8.1*	8.1*	8.6*	8.6*	6.5*	6.1	4.7*	4.3	4.2*	4.2*	7.6
1.5 m	11.5*	11.5*	9.7*	9.2	7.0*	6.1	5.4*	4.2	4.4*	4.1	7.6
0 m	14.7*	14.7*	10.0*	9.3	7.3*	6.1			4.9*	4.3	7.4
-1.5 m	16.4*	16.4*	10.2*	9.7	7.4*	5.9			6.0*	5.0	6.7
-3.0 m	16.9*	16.9*	9.8*	9.4					8.9*	8.5	4.8

#### **REAR BLADE DOWN**

_						REACH					
<b>№ Front</b>	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	ŀ	<del>=</del>	ļ.	<del> </del>	'n	<del>   </del>	Ψ	<del>  -</del> -	ļη	<b>₩</b>	m
7.5 m			5.2*	5.2*					3.4*	3.4*	5.6
6.0 m			5.3*	5.3*	5.0*	3.9			3.0*	3.0*	6.8
4.5 m	6.7*	6.7*	6.5*	5.9*	5.6*	3.9*	3.2*	2.5	2.9*	2.5	7.5
3.0 m	10.2*	10.2*	8.1*	5.7	6.2*	3.8	5.0*	2.5	2.9*	2.3	7.9
1.5 m	11.7*	10.1	9.4*	5.6	6.9*	3.8	5.0	2.	3.1*	2.2	8.0
0 m	14.0*	10.2	9.9*	5.7	7.0*	3.6	4.9	2.4	3.4*	2.2	7.8
-1.5 m	16.2*	10.1	10.1*	5.4	7.1	3.3			4.1*	2.5	7.2
-3.0 m	16.8*	10.0	10.4*	5.1					7.1*	3.7	5.6

#### FRONT+REAR STAB. DOWN

7.5 m	At max read	h
III		
in in	l <sup>0</sup> +÷	- m
	3.4* 3.4	5.6
	3.0* 3.0	6.8
3.2* 3.2*	2.9* 2.9	* 7.5
5.0* 4.3*	2.9* 2.9	* 7.9
5.5* 4.3	3.1* 3.1	* 8.0
5.5* 4.2	3.4* 3.4	* 7.8
	4.1* 4.1	* 7.2
	7.1* 6.6	5.6
	5.0* 4.3* 5.5* 4.3	3.4* 3.4* 3.4 3.0* 3.0* 3.0* 5.0* 4.3* 2.9* 2.9* 5.5* 4.3 3.1* 3.1* 5.5* 4.2 3.4* 3.4* 4.1* 4.1*

#### **REAR BLADE DOWN**

						<b>REACH</b>					
→ Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	ŀΠ	<del>=</del>	ΙΙ	<del>=</del>	Ψ	<del>=</del>	ΙΝ	<del>=</del>	ΙĮ	<del> - </del>	m
9.0 m									3.3*	3.3*	4.3
7.5 m					3.3*	3.3*			2.5*	2.5*	6.3
6.0 m					4.2*	3.9			2.2*	2.2*	7.4
4.5 m			4.8*	4.8*	4.8*	3.8	3.8*	2.6	2.1*	2.1*	8.1
3.0 m	11.1*	10.4*	7.4*	5.7	5.8*	3.8	4.7*	2.6	2.1*	2.0	8.4
1.5 m	11.4*	10.1*	8.9*	5.5	6.5*	3.8*	5.0	2.5	2.2*	1.9	8.5
0 m	13.0*	10.0	9.7*	5.5	6.9	3.7	4.9	2.4	2.4*	2.0	8.3
-1.5 m	15.5*	10.1	9.9*	5.4	7.0	3.4	4.8*	2.3	2.8*	2.2	7.7
-3.0 m	16.4*	9.9	10.2*	5.1	6.9*	3.2			4.2*	2.9	6.4

		REACH									
<b>P</b> Front	3.0	m	4.5 m		6.0	6.0 m		7.5 m		At max reach	
Side	ļΝ	<del>=</del>	ŀη	<del> </del>	'n	<del>   </del>	Ψ	<del>  -</del>	Ψ	<del> </del>	m
9.0 m									3.3*	3.3*	4.3
7.5 m					3.3*	3.3*			2.5*	2.5*	6.3
6.0 m					4.2*	4.2*			2.2*	2.2*	7.4
4.5 m			4.8*	4.8*	4.8*	4.8*	3.8*	3.8*	2.1*	2.1*	8.1
3.0 m	11.1*	11.1*	7.4*	7.4*	5.8*	5.8*	4.7*	4.3	2.1*	2.1*	8.4
1.5 m	11.4*	11.4*	8.9*	8.9*	6.5*	6.0	5.2*	4.3	2.2*	2.2*	8.5
0 m	13.0*	13.0*	9.7*	9.1*	7.0*	6.0	5.5*	4.2	2.4*	2.4*	8.3
-1.5 m	15.5*	15.5*	9.9*	9.2	7.1*	5.9	4.8*	4.1	2.8*	2.8*	7.7
-3.0 m	16.4*	16.4*	10.2*	9.5	6.9*	5.8			4.2*	4.2*	6.4

## WHEELED EXCAVATORS WX218

### **SPECIFICATIONS**

#### **ENGINE**

Net flywheel power (ISO 14396/ECE	R120)129 kW / 173 hp
Rated	2000 rpm
Make and model	F4GE9684G J666
Type	_ Water-cooled, 6 cylinder direct injection
type diesel engine with intercooler t	turbo-charger
Displacement	6.728 l
Number of cylinders	6
Bore x stroke	104 x 132 mm
Maximum torque at 1200 rpm	745 Nm

### **ELECTRICAL SYSTEM**

Voltage	24 V
Batteries	2 x 12 V
Battery rating (each)	100 Ah
Alternator	70 A
Starter motor	4 kW

#### **TRANSMISSION**

	KIII/II	KIII/II	
Max Road travel speed	20	35	
Max Field travel speed	5	9	
Creep speed	2.9	2.9	
Maximum drawbar pull			_121 kN
Power shift multi-disc gearbox shiftable	under load		

Power shift multi-disc gearbox shiftable under load

Automatic or manual gear shift control.

Travel mode automatically engaged by pressing accelerator pedal.

### **HYDRAULIC SYSTEM**

2 x Primary pumps	512 l/min (2 x 203 + 106) 22 l/min ional)80 l/min 340 / 370 bar 370 bar 360 / 390 bar 45 bar 120 x 1290 mm
Boom cylinder mono	120 x 1290 mm 120 x 990 mm
Bucket cylinder	120 x 1080 mm

Positioning cylinder \_\_\_\_\_\_ 170 x 640 mm Cylinder end stroke damping.

Electrohydraulic servo-control.

Three-pump hydraulics with two main pumps and separate swing pump. 8 selectable power stages with permanent Power Boost in lift stages: Low idle, Lift 1, Lift 2, Eco 1, Eco 2, Eco 3, Heavy, Roadtravel Adjustable swing acceleration (power) and deceleration (brake) Automatic power increase in the drive mode.

### **SWING DRIVE**

Swing speed	9 rpm
Swing torque	58 kNm
The swing function is operated by a hydra	ulic closed circuit coupled with a

The swing function is operated bu a hydraulic closed circuit coupled with a mechanical reducer integrating an automatic static brake. The hudrostatic swing brake is adjustable in 3 settings.

#### BRAKES

Service brakes: Play free, oil bath multi disc type integrated operating at 75 bar. Work brake: Acts on service brakes and locks front axle oscillation.

Parking brake: Spring type mechanical action on the transmisssion in all four wheel hubs

Emergency brake: Double braking circuit and automatic parking and brake actuation with the engine shut down

#### **STEERING**

Type	ORBITROL with safety valve
Pump	gear type
Steering cylinder	double effect, integrated in axle

#### **TYRES**

Twin tyres	10.00-20/11.00-20
Single tyres	18 -22.5/600-40-22.5/620-40-22.5
Tyre availability can be limited by	local homologation.

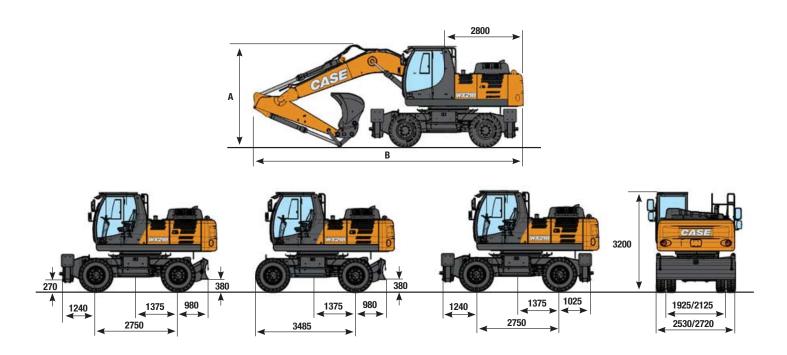
#### **CAPACITIES**

Engine oil	8/15 I
Cooling system	11
Fuel tank	296 I
Hydraulic system (incl. tank)	270 I for mono
	290 I for triple articulation

## **GENERAL DIMENSIONS**

## **WX218**

#### equipped with twin tires 11.00 - 20



		TRIPLE ARTICULATION 5.5 m			MONOBOOM 5.6 m		
		Arm 2.10 m	Arm 2.40 m	Arm 2.94 m	Arm 2.10 m	Arm 2.40 m	Arm 2.94 m
Α		2970 mm	2985 mm	3115 mm	3345 mm	3270 mm	3225 mm
В	with rear blade	9385 mm	9355 mm	9360 mm	9765 mm	9730 mm	9655 mm
В	with rear stabilizers	9385 mm	9355 mm	9360 mm	9765 mm	9730 mm	9700 mm

## **OPERATING WEIGHT WX218**

#### 2.55 axle width include bucket 800 kg and quick coupler 250 kg (with 11.00-20)

	TI	TRIPLE ARTICULATION			MONOBOOM		
	Arm 2.10 m	Arm 2.40 m	Arm 2.94 m	Arm 2.10 m	Arm 2.40 m	Arm 2.94 m	
Rear blade	20300 kg	20300 kg	20400 kg	19950 kg	19950 kg	20050 kg	
Stabilizers	20600 kg	20600 kg	20700 kg	20350 kg	20350 kg	20450 kg	
Rear Blade and stabilizers	21200 kg	21200 kg	21300 kg	20950 kg	20950 kg	21050 kg	
Stabilizers rear and front	21450 kg	21450 kg	21550 kg	21200 kg	21200 kg	21300 kg	

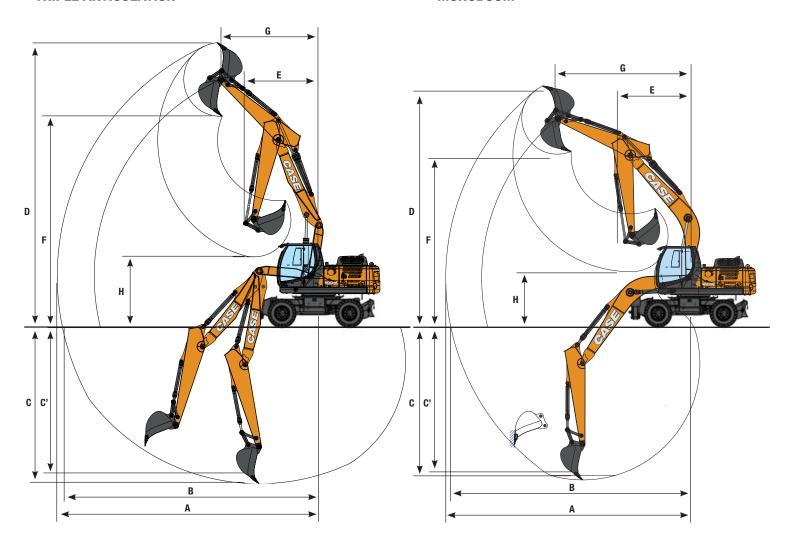
#### 2.75 axle width include bucket 800 kg and quick coupler 250 kg (with 11.00-20)

	TRIPLE ARTICULATION			MONOBOOM		
	Arm 2.10 m	Arm 2.40 m	Arm 2.94 m	Arm 2.10 m	Arm 2.40 m	Arm 2.94 m
Rear blade	20400 kg	20400 kg	20500 kg	20050 kg	20050 kg	20150 kg
Stabilizers	20700 kg	20700 kg	20800 kg	20450 kg	20450 kg	20550 kg
Rear Blade and stabilizers	21300 kg	21300 kg	21400 kg	21050 kg	21050 kg	21150 kg
Stabilizers rear and front	21550 kg	21550 kg	21650 kg	21300 kg	21300 kg	21400 kg

# PERFORMANCE DATA WX218

#### **TRIPLE ARTICULATION**

#### **MONOBOOM**



		TRI	IPLE ARTICULAT	ION		MONOBOOM	
		Arm 2.10 m	Arm 2.40 m	Arm 2.94 m	Arm 2.10 m	Arm 2.40 m	Arm 2.94 m
Α	Max. digging reach	8980 mm	9270 mm	9770 mm	9270 mm	9530 mm	10010 mm
В	Max. digging reach at ground level	8770 mm	9050 mm	9570 mm	9050 mm	9320 mm	9820 mm
С	Max. digging depth	4850 mm	5160 mm	5690 mm	4940 mm	5260 mm	5800 mm
C,	Max. depth of cut for 8' level bottom	4740 mm	5060 mm	5590 mm	4720 mm	5060 mm	5630 mm
D	Max. digging height	10050 mm	10230 mm	10590 mm	10200 mm	10340 mm	10650 mm
Е	Min. front swing radius	3370 mm	3100 mm	2800 mm	3240 mm	2940 mm	2790 mm
F	Max. loading height	7260 mm	7440 mm	7800 mm	7470 mm	7580 mm	7890 mm
G	Front swing radius at max height	3130 mm	3420 mm	3830 mm	3430 mm	3740 mm	4190 mm
Н	Max. loading height (arm retracted)	3790 mm	3320 mm	2680 mm	4010 mm	3580 mm	2990 mm

## **DIGGING FORCE - ISO WX218**

	Arm 2.20 m	Arm 2.60 m	Arm 3.10 m
Arm digging force	140 kN	122 kN	102 kN
- with auto power boost	152 kN	133 kN	111 kN
Bucket digging force	156 kN	156 kN	156 kN
- with auto power boost	169 kN	170 kN	170 kN

## **WX218**

TRIPLE ARTICULATION - DIPPERSTICK 2.10 m

#### **REAR BLADE UP**

						REACH					
Front	3.0	) m	4.5	5 m	6.0	) m	7.5	ī m	At max	reach	
Side	ļΠ	<del> </del>	ŀη	<del>=</del>	Ψ	+	ΨJ	<del>=</del>	ΙŢ	<del>=</del>	m
7.5 m			7.2*	5.9					7.3*	4.8	5.0
6.0 m			7.1*	5.9	5.5	3.7			5.0	3.3	6.4
4.5 m			8.1*	5.7	5.5	3.8			4.1	2.7	7.1
3.0 m			8.1	5.5	5.5	3.7	3.7	2.4	3.7	2.4	7.5
1.5 m	12.2*	9.4	8.1	5.5	5.5	3.6	3.7	2.3	3.6	2.3	7.6
0 m	15.4*	9.3	8.2	5.3	5.2	3.4			3.7	2.4	7.3
-1.5 m	15.9	9.1	8.1	5.1	5.1	3.2			4.5	2.9	6.4
-3.0 m	15.9	9.2							8.3	5.2	4.4

#### **REAR BLADE+FRONT STAB. DOWN**

		REACH												
<b>→</b> Front	3.0	) m	4.5	m	6.0	m	7.5	m	At max	reach				
Side	ļΝ	<del> -</del>	ļμ	<del>=</del>	Ιμ	<del> -</del>	Ϊη	<del>=</del>	Ιμ	<del>=</del>	m			
7.5 m			7.2*	7.2*					7.3*	7.3*	5.0			
6.0 m			7.1*	7.1*	6.5*	6.0			6.6*	5.4	6.4			
4.5 m			8.1*	8.1*	6.7*	6.0			6.2*	4.5	7.1			
3.0 m			9.7*	8.8	7.4*	5.9	6.0*	4.1	6.0*	4.1	7.5			
1.5 m	12.2*	12.2*	11.0*	8.7	8.0*	5.9	6.5*	4.0	6.2*	3.9	7.6			
0 m	16.4*	16.4*	11.4*	8.9*	8.3*	5.7			6.6*	4.1	7.3			
-1.5 m	18.4*	17.6	11.6*	8.9	8.5*	5.6			7.6*	5.0	6.4			
-3.0 m	19.2*	18.2							12.0*	9.2	4.4			

#### TRIPLE ARTICULATION - DIPPERSTICK 2.40 m

#### **REAR BLADE UP**

	REACH													
Front	3.0	m	4.5	i m	6.0	m	7.5	m	At max	reach				
Side	ļΝ	<del> </del>	ΙΉ	<del>=</del>	ļμ	<del> -</del>	ΙΉ	<del>=</del> i	ΙΝ	<b>≑</b> †⊸	m			
7.5 m			6.6*	6.0					6.5	4.3	5.4			
6.0 m			6.7*	5.9	5.6	3.8			4.6	3.0	6.7			
4.5 m	10.6*	10.2	7.7*	5.7	5.5	3.8			3.9	2.5	7.4			
3.0 m	10.4*	9.6	8.1	5.5	5.5	3.8	3.8	2.4	3.5	2.3	7.8			
1.5 m	13.1*	9.5	8.0	5.5	5.5*	3.7	3.7	2.4	3.4	2.2	7.9			
0 m	15.3	9.4	8.1	5.3	5.3	3.5	3.6	2.3	3.5	2.2	7.6			
-1.5 m	15.8*	9.1	8.1	5.2	5.1	3.3			4.1	2.6	6.8			
-3.0 m	16.0	9.3	7.8	4.9					6.5	4.1	5.1			

#### **REAR BLADE+FRONT STAB. DOWN**

	REACH													
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach				
Side	Ψ	<del> </del>	Ιμ	<del>=</del>	ļμ	<del> </del>	ļΠ	<del>=</del>	Ψ	₩-	m			
7.5 m			6.6*	6.6*					6.7*	6.7*	5.4			
6.0 m			6.7*	6.7*	6.1*	6.1			6.0*	5.0	6.7			
4.5 m	10.6*	10.6*	7.7*	7.7*	6.5*	6.0			5.7*	4.2	7.4			
3.0 m	10.4*	10.4*	9.3*	8.9	7.1*	5.9	6.0*	4.1	5.7*	3.8	7.8			
1.5 m	13.1*	13.1*	10.8*	8.8	7.8*	5.9	6.4*	4.1	5.8*	3.7	7.9			
0 m	16.1*	16.1*	11.3*	8.8	8.2*	5.8	6.5*	4.0	6.3*	3.9	7.6			
-1.5 m	18.3*	17.5	11.5*	9.0	8.5*	5.6			7.0*	4.5	6.8			
-3.0 m	19.0*	18.3	11.8*	8.7					10.0	7.2	5.1			

#### TRIPLE ARTICULATION - DIPPERSTICK 2.94 m

#### **REAR BLADE UP**

						<b>REACH</b>						
<b>▶</b> Front	3.0	3.0 m 4.5 m			6.0	) m	7.5	m	At max reach			
Side	Ψ	<del>   </del>	ΙΉ	<del>=</del>	Ψ	<del>  </del>	ΙŢ	<del>=</del> i	ηJ	<b>≑</b> †⊸	m	
9.0 m									6.0*	6.0*	4.2	
7.5 m					5.3*	3.7			4.6*	3.6	6.1	
6.0 m					5.6*	3.9			4.1	2.7	7.3	
4.5 m			6.9*	5.7	5.5	3.8	3.9	2.6	3.5	2.2	8.0	
3.0 m	13.1*	9.7	8.2	5.5	5.4	3.7	3.9	2.5	3.2	2.0	8.3	
1.5 m	13.0*	9.4	8.0*	5.4	5.4	3.7	3.8	2.5	3.1	2.0	8.4	
0 m	15.1*	9.5	8.0*	5.4	5.5	3.6	3.7	2.3	3.2	2.0	8.1	
-1.5 m	15.5	9.1	8.1	5.1	5.2	3.3			3.6	2.3	7.5	
-3.0 m	15.8	9.1	7.9	5.0					4.9	3.1	6.0	

#### **REAR BLADE+FRONT STAB. DOWN**

						<b>REACH</b>					
Front	3.0	) m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	Į.	<del>   </del>	ļΨ	<del>  </del> -	Ψ	<del>  </del>	ηJ	-	ļΝ	#-	m
9.0 m									6.0*	6.0*	4.2
7.5 m					5.3*	5.3*			4.6*	4.6*	6.1
6.0 m					5.6*	5.6*			4.1*	4.1*	7.3
4.5 m			6.9*	6.9*	6.0*	6.0*	5.4*	4.2	4.0*	3.8	8.0
3.0 m	13.1*	13.1*	8.6*	8.6*	6.7*	5.9	5.7*	4.2	4.0*	3.5	8.3
1.5 m	13.0*	13.0*	10.2*	8.7	7.5*	5.8	6.0*	4.1	4.1*	3.4	8.4
0 m	15.2*	15.2*	11.1*	8.7	8.1*	5.9*	6.4*	4.0	4.5*	3.5	8.1
-1.5 m	17.9*	17.2*	11.3*	9.0	8.2*	5.7			5.3*	3.9	7.5
-3.0 m	18.4*	17.9	11.7*	8.8					7.9*	5.4	6.0

#### **REAR BLADE DOWN**

						<b>REACH</b>					
Front	3.0	) m	4.5	m	6.0	) m	7.5	i m	At max	reach	
Side	Ιμ	<del>=</del>	lμ	<del>=</del>	Ψ	<del>-</del>	Ιμ	<del>     </del>	Ψ	<del> </del>	m
7.5 m			7.2*	6.5					7.3*	5.4	5.0
6.0 m			7.1*	6.5	6.5*	4.1			6.6*	3.7	6.4
4.5 m			8.1*	6.3	6.7*	4.2			6.2*	3.0	7.1
3.0 m			9.7*	6.1*	7.4*	4.2	6.0*	2.7	6.0*	2.7	7.5
1.5 m	12.2*	10.7	11.0*	6.1	8.0*	4.0	6.4	2.6	6.2*	2.6	7.6
0 m	16.4*	10.7	11.4*	6.0	8.3*	3.8			6.6*	2.7	7.3
-1.5 m	18.4*	10.5	11.6*	5.8	8.5*	3.6			7.6*	3.3	6.4
-3.0 m	19.2*	10.6							12.0*	5.9	4.4

#### FRONT+REAR STAB. DOWN

		REACH													
<b>P</b> Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach					
Side	11	<del>=</del>	Įμ	<del> </del>	ļμ	<del>  </del>	ηJ	<del> </del>	ļμ	₩-	m				
7.5 m			7.2*	7.2*					7.3*	7.3*	5.0				
6.0 m			7.1*	7.1*	6.5*	6.5*			6.6*	6.6	6.4				
4.5 m			8.1*	8.1*	6.7*	6.7*			6.2*	5.4	7.1				
3.0 m			9.7*	9.7*	7.4*	7.0	6.0*	4.9	6.0*	4.9	7.5				
1.5 m	12.2*	12.2*	11.0*	10.5	8.0*	6.9	6.5*	4.9	6.2*	4.8	7.6				
0 m	16.4*	16.4*	11.4*	10.6	8.3*	7.0			6.6	5.0	7.3				
-1.5 m	18.4*	18.4*	11.6*	11.0	8.5*	6.8			7.6*	6.1	6.4				
-3.0 m	19.2*	19.2*							12.0*	11.5	4.4				

#### **REAR BLADE DOWN**

						<b>REACH</b>					
<b>№ Front</b>	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	Į.	<del>=</del>	Ή	<del> </del>	ļμ	<del> </del>	l l	₩-	ļ.	<del>iri</del> ⊸	m
7.5 m			6.6*	6.6*					6.7*	4.8	5.4
6.0 m			6.7*	6.6	6.1*	4.2			6.0*	3.4	6.7
4.5 m	10.6*	10.6*	7.7*	6.3	6.5*	4.2			5.7*	2.8	7.4
3.0 m	10.4*	10.4*	9.3*	6.1	7.1*	4.2	6.0*	2.7	5.7*	2.5	7.8
1.5 m	13.1*	10.7	10.8*	6.0*	7.8*	4.1	6.4*	2.7	5.8*	2.5	7.9
0 m	16.1*	10.8	11.3*	6.0	8.2*	3.9	6.4	2.6	6.2	2.5	7.6
-1.5 m	18.3*	10.5	11.5*	5.8	8.5*	3.7			7.0*	3.0	6.8
-3.0 m	19.0*	10.7	11.8*	5.5					10.0*	4.7	5.1

#### FRONT+REAR STAB. DOWN

						REACH					
<b>№ Front</b>	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	ŀ	<del>  </del>	ηJ	<del>  -</del> -	ļμ	<del>  </del> -	Ψ	<del>   </del>	ļμ	<del> </del>	m
7.5 m			6.6*	6.6*					6.7*	6.7*	5.4
6.0 m			6.7*	6.7*	6.1*	6.1*			6.0*	6.0*	6.7
4.5 m	10.6*	10.6*	7.7*	7.7*	6.5*	6.5*			5.7*	5.1	7.4
3.0 m	10.4*	10.4*	9.3*	9.3*	7.1*	7.0*	6.0*	5.0	5.7*	4.7	7.8
1.5 m	13.1*	13.1*	10.8*	10.5	7.8*	6.9	6.4*	4.9	5.8*	4.5	7.9
0 m	16.1*	16.1*	11.3*	10.6	8.2*	7.0	6.5*	4.8	6.3*	4.7	7.6
-1.5 m	18.3*	18.3*	11.5*	10.9*	8.5*	6.8			7.0*	5.5	6.8
-3.0 m	19.0*	19.0*	11.8*	10.8					10.0*	8.9	5.1

#### **REAR BLADE DOWN**

	REACH										
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	Ιμ	<del>=</del>	ηJ	<del>=</del> -	ΨI	<del>=</del>	ΨĮ	<del>=</del> -	Ψ	<del> - </del>	m
9.0 m									6.0*	6.0*	4.2
7.5 m					5.3*	4.2			4.6*	4.0	6.1
6.0 m					5.6*	4.3*			4.1*	3.0	7.3
4.5 m			6.9*	6.4	6.0*	4.2	5.4*	2.9	4.0*	2.5	8.0
3.0 m	13.1*	11.0	8.6*	6.1*	6.7*	4.1	5.7*	2.8	4.0*	2.3	8.3
1.5 m	13.0*	10.6	10.2*	6.0	7.5*	4.1	6.0*	2.8	4.1*	2.2	8.4
0 m	15.2*	10.6	11.1*	6.0*	8.1*	4.0	6.3*	2.6	4.5*	2.3	8.1
-1.5 m	17.9*	10.5	11.3*	5.8	8.2*	3.7			5.3*	2.5	7.5
-3.0 m	18.4*	10.5	11.7*	5.6					7.9*	3.5	6.0

						<b>REACH</b>							
<b>Pront</b> ■	3.0	m	4.5	m	6.0	) m	7.5	m	At max	reach			
Side		<del>=</del>	Ψ	<del> </del>	Ιμ	<del>=</del>	Ψ	<del>-</del>	Ψ	<del>=</del>	m		
9.0 m									6.0*	6.0*	4.2		
7.5 m					5.3*	5.3*			4.6*	4.6*	6.1		
6.0 m					5.6*	5.6*			4.1*	4.1*	7.3		
4.5 m			6.9*	6.9*	6.0*	6.0*	5.4*	5.1	4.0*	4.0*	8.0		
3.0 m	13.1*	13.1*	8.6*	8.6*	6.7*	6.7*	5.7*	5.1	4.0*	4.0*	8.3		
1.5 m	13.0*	13.0*	10.2*	10.2*	7.5*	6.9	6.0*	5.0	4.1*	4.1	8.4		
0 m	15.2*	15.2*	11.1*	10.5	8.1*	6.9	6.4*	4.9	4.5*	4.2	8.1		
-1.5 m	17.9*	17.9*	11.3*	10.6*	8.2*	6.9			5.3*	4.8	7.5		
-3.0 m	18.4*	18.4*	11.7*	11.0					7.9*	6.7	6.0		

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#### MONO BOOM - DIPPERSTICK 2.10 m

#### **REAR BLADE UP**

		REACH												
Front	3.0	) m	4.5 m		6.0	) m	7.5	ī m	At max	reach				
Side	Ψ	<del> </del>	Ψ	<del>   </del>	Ψ	<b>+</b>	Ψ	₩-	Ψ	<del>=</del>	m			
7.5 m			7.8*	5.9					6.4	4.3	5.4			
6.0 m			8.1*	5.7	5.5	3.7			4.6	3.0	6.7			
4.5 m			8.3	5.3	5.3	3.5			3.8	2.5	7.4			
3.0 m			7.6	4.8	5.1	3.3	3.7	2.4	3.5	2.2	7.8			
1.5 m					4.8	3.1	3.6	2.3	3.3	2.1	7.9			
0 m			7.1	4.3	4.7	3.0	3.5	2.2	3.5	2.2	7.6			
-1.5 m	10.1*	8.0	7.1	4.3	4.7	2.9			3.8	2.4	7.1			
-3.0 m			7.1*	4.5	4.9	3.1			4.8*	3.1	6.1			

#### **REAR BLADE+FRONT STAB. DOWN**

	REACH												
<b>№</b> Front	3.0	m	4.5 m		6.0	) m	7.5	m	At max	reach			
Side	h)	<del> -</del>	Ιμ	<del>=</del> -	ļμ	<b>+</b>	Ψ	<del>  </del>	ή	<del> </del>	m		
7.5 m			7.8*	7.8*					7.5*	7.0	5.4		
6.0 m			8.1*	8.1*	7.0*	6.0			6.8*	5.0	6.7		
4.5 m			9.2*	9.1	7.3*	5.8			6.5*	4.2	7.4		
3.0 m			10.7*	8.5	7.9*	5.6	6.5*	4.0	6.3*	3.8	7.8		
1.5 m					8.3*	5.3	6.5*	3.9	6.1*	3.7	7.9		
0 m			10.8*	7.9	8.1*	5.2	6.1*	3.9	6.0*	3.8	7.6		
-1.5 m	10.1*	10.1*	9.5*	7.9	7.3*	5.2			5.6*	4.2	7.1		
-3.0 m			7.1*	7.1*	4.9*	4.9*			4.8*	4.8*	6.1		

#### MONO BOOM - DIPPERSTICK 2.40 m

#### **REAR BLADE UP**

		REACH											
Front	3.0	m	4.5	m	6.0	) m	7.5	m	At max	reach			
Side	ļΝ	<del>   </del>	η	<del>=</del>	Ψ	<del> </del>	ΙΉ	<del>=</del> i	ŀη	<b>≑</b> †⊸	m		
7.5 m			7.3*	6.0					5.8	3.9	5.8		
6.0 m			7.6*	5.8	5.5	3.7			4.3	2.8	7.0		
4.5 m			8.4	5.4	5.4	3.5	3.8	2.5	3.6	2.4	7.7		
3.0 m			7.7	4.9	5.1	3.3	3.7	2.4	3.3	2.1	8.1		
1.5 m			7.3	4.4	4.9	3.1	3.6	2.3	3.2	2.0	8.1		
0 m			7.1	4.3	4.7	3.0	3.5	2.2	3.3	2.1	7.9		
-1.5 m	10.7*	7.9	7.1	4.3	4.7	2.9			3.6	2.3	7.3		
-3.0 m	9.5*	8.1	7.2	4.4	4.8	3.0			4.4	2.8	6.4		

#### REAR BLADE+FRONT STAB. DOWN

		REACH												
Front	3.0	m	4.5 m		6.0	) m	7.5	m	At max	reach				
Side	Ψ	<del>     </del>	Ψ	<del>=</del>	Ψ	<del> </del>	ļΠ	<del>  </del>	η	<del> </del>	m			
7.5 m			7.3*	7.3*					6.2*	6.2*	5.8			
6.0 m			7.6*	7.6*	6.7*	6.1			5.6*	4.7	7.0			
4.5 m			8.9*	8.9*	7.1*	5.9	6.2*	4.1	5.5*	3.9	7.7			
3.0 m			10.4*	8.6	7.7*	5.6	6.4*	4.0	5.6*	3.6	8.1			
1.5 m			11.3*	8.1	8.2*	5.4	6.5*	3.9	5.9*	3.5	8.1			
0 m			11.1*	7.9	8.2*	5.2	6.3*	3.8	5.8*	3.6	7.9			
-1.5 m	10.7*	10.7*	9.9*	7.9	7.5*	5.2			5.6*	4.0	7.3			
-3.0 m	9.5*	9.5*	7.8*	7.8*	5.7*	5.3			5.0*	4.9	6.4			

#### MONO BOOM - DIPPERSTICK 2.94 m

#### **REAR BLADE UP**

	REACH											
Front	3.0	m	4.5	i m	6.0	) m	7.5	m	At max	reach		
Side	Ţ	<del>   </del>	ηJ	<del>=</del>	ļΨ	<del>  </del>	Ψ	<del> </del>	ηJ	<del>=</del>	m	
9.0 m			5.6*	5.6*					5.0*	5.0*	4.7	
7.5 m					5.7	3.8			4.2*	3.3	6.5	
6.0 m					5.6	3.8	3.9	2.5	3.8	2.5	7.6	
4.5 m	11.0*	10.4	8.1*	5.6	5.4	3.6	3.8	2.5	3.3	2.1	8.2	
3.0 m			7.9	5.0	5.1	3.3	3.7	2.4	3.0	1.9	8.5	
1.5 m			7.3	4.5	4.9	3.1	3.5	2.3	2.9	1.8	8.6	
0 m	5.6*	5.6*	7.1	4.3	4.7	2.9	3.5	2.2	3.0	1.9	8.4	
-1.5 m	10.4*	7.6	7.0	4.2	4.6	2.9	3.4	2.1	3.2	2.0	7.9	
-3.0 m	11.3*	7.8	7.1	4.3	4.7	2.9			3.8	2.4	7.0	

#### **REAR BLADE+FRONT STAB. DOWN**

	REACH										
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	ļ.	₩-	Ψ	₩-	ļμ	<b>#</b>	ήJ	<del>  </del>	ļμ	₩-	m
9.0 m			5.6*	5.6*					5.0*	5.0*	4.7
7.5 m					5.7*	5.7*			4.2*	4.2*	6.5
6.0 m					6.2*	6.1	4.2*	4.2*	3.9*	3.9*	7.6
4.5 m	11.0*	11.0*	8.1*	8.1*	6.7*	5.9	5.9*	4.2	3.8*	3.6	8.2
3.0 m			9.8*	8.7	7.4*	5.6	6.1*	4.0	3.9*	3.3	8.5
1.5 m			11.0*	8.2	8.0*	5.4	6.4*	3.9	4.1*	3.2	8.6
0 m	5.6*	5.6*	11.2*	7.9	8.2*	5.2	6.3*	3.8	4.5*	3.3	8.4
-1.5 m	10.4*	10.4*	10.4*	7.8	7.8*	5.1	5.8*	3.8	5.3*	3.5	7.9
-3.0 m	11.3*	11.3*	8.7*	7.9	6.5*	5.2			4.9*	4.2	7.0

#### **REAR BLADE DOWN**

	REACH										
<b>I</b> Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	Ιμ	<del>=</del>	Ιμ	<del>=</del>	Ψ	<del>-</del>	Ιμ	+-	Ψ	<del> </del>	m
7.5 m			7.8*	6.6					7.5*	4.8	5.4
6.0 m			8.1*	6.4	7.0*	4.1			6.8*	3.4	6.7
4.5 m			9.2*	6.0	7.3*	3.9			6.5*	2.8	7.4
3.0 m			10.7*	5.4	7.9*	3.7	6.4	2.7	6.0	2.5	7.8
1.5 m					8.3*	3.5	6.2	2.6	5.8	2.4	7.9
0 m			10.8*	4.9	8.1*	3.3	6.1*	2.5	6.0*	2.5	7.6
-1.5 m	10.1*	9.3	9.5*	4.9	7.3*	3.3			5.6*	2.8	7.1
-3.0 m			7.1*	5.1	4.9*	3.5			4.8*	3.5	6.1

#### FRONT+REAR STAB. DOWN

						<b>REACH</b>					
	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	11	<del>=</del> -	ļή	<del> </del>	ļμ	<del> </del>	ĮĮ.	<del>=</del>	ļ.	<del> </del>	m
7.5 m			7.8*	7.8*					7.5*	7.5*	5.4
6.0 m			8.1*	8.1*	7.0*	7.0*			6.8*	6.0	6.7
4.5 m			9.2*	9.2*	7.3*	7.1			6.5*	5.0	7.4
3.0 m			10.7*	10.6	7.9*	6.8	6.5*	4.8	6.3*	4.6	7.8
1.5 m					8.3*	6.5	6.5*	4.7	6.1*	4.4	7.9
0 m			10.8*	10.0	8.1*	6.4	6.1*	4.7	6.0*	4.6	7.6
-1.5 m	10.1*	10.1*	9.5*	9.5*	7.3*	6.4			5.6*	5.1	7.1
-3.0 m			7.1*	7.1*	4.9*	4.9*			4.8*	4.8*	6.1

#### **REAR BLADE DOWN**

		REACH											
<b>№ Front</b>	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach			
Side	ŀΊ	<del>=</del>	ΙΙΙ	<del>=</del>	Ψ	<del>=</del>	l l	<del>=</del>	Ψ	<del> - </del>	m		
7.5 m			7.3*	6.7					6.2*	4.3	5.8		
6.0 m			7.6*	6.5	6.7*	4.1			5.6*	3.2	7.0		
4.5 m			8.9*	6.1	7.1*	3.9	6.2*	2.8	5.5*	2.6	7.7		
3.0 m			10.4*	5.5	7.7*	3.7	6.4	2.7	5.6*	2.4	8.1		
1.5 m			11.3*	5.1	8.2*	3.5	6.2	2.6	5.5	2.3	8.1		
0 m			11.1*	4.9	8.2*	3.3	6.2	2.5	5.7	2.3	7.9		
-1.5 m	10.7*	9.2	9.9*	4.9	7.5*	3.3			5.6*	2.6	7.3		
-3.0 m	9.5*	9.4	7.8*	5.0	5.7*	3.4			5.0*	3.2	6.4		

#### FRONT+REAR STAB. DOWN

						REACH					
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	ηJ	<del>  </del> -	ηJ	<del> </del>	ļμ	#	Ψ	<del>=</del>	ļμ	₩-	m
7.5 m			7.3*	7.3*					6.2*	6.2*	5.8
6.0 m			7.6*	7.6*	6.7*	6.7*			5.6*	5.6	7.0
4.5 m			8.9*	8.9*	7.1*	7.1	6.2*	5.0	5.5*	4.8	7.7
3.0 m			10.4*	10.4*	7.7*	6.8	6.4*	4.9	5.6*	4.4	8.1
1.5 m			11.3*	10.2	8.2*	6.6	6.5*	4.8	5.9*	4.2	8.1
0 m			11.1*	10.0	8.2*	6.4	6.3*	4.7	5.8*	4.4	7.9
-1.5 m	10.7*	10.7*	9.9*	9.9*	7.5*	6.4			5.6*	4.8	7.3
-3.0 m	9.5*	9.5*	7.8*	7.8*	5.7*	5.7*			5.0*	5.0*	6.4

#### **REAR BLADE DOWN**

	REACH											
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach		
Side	ŀ	<del>=</del>	Ιμ	<del>=</del>	Ψ	<del>=</del>	l l	<del>=</del>	Ψ	<del> - -</del> -	m	
9.0 m			5.6*	5.6*					5.0*	5.0*	4.7	
7.5 m					5.7*	4.2			4.2*	3.7	6.5	
6.0 m					6.2*	4.2	4.2*	2.8	3.9*	2.8	7.6	
4.5 m	11.0*	11.0*	8.1*	6.2	6.7*	4.0	5.9*	2.8	3.8*	2.4	8.2	
3.0 m			9.8*	5.6	7.4*	3.7	6.1*	2.7	3.9*	2.2	8.5	
1.5 m			11.0*	5.1	8.0*	3.5	6.2	2.5	4.1*	2.1	8.6	
0 m	5.6*	5.6*	11.2*	4.9	8.2*	3.3	6.1	2.5	4.5*	2.1	8.4	
-1.5 m	10.4*	8.9	10.4*	4.8	7.8*	3.2	5.8*	2.4	5.3*	2.3	7.9	
-3.0 m	11.3*	9.1	8.7*	4.9	6.5*	3.3			4.9*	2.7	7.0	

	PERCHASIAN CONTRACTOR													
						<b>REACH</b>								
<b>№</b> Front	3.0	) m	4.5	m	6.0	m	7.5	m	At max	reach				
Side	l <sub>l</sub> .	<del>  </del>	l <sub>l</sub> l	<del>=</del>	Ψ	11	l <sub>l</sub> l	111	l <sub>l</sub> ij	<del> </del>	m			
9.0 m			5.6*	5.6*					5.0*	5.0*	4.7			
7.5 m					5.7*	5.7*			4.2*	4.2*	6.5			
6.0 m					6.2*	6.2*	4.2*	4.2*	3.9*	3.9*	7.6			
4.5 m	11.0*	11.0*	8.1*	8.1*	6.7*	6.7*	5.9*	5.0	3.8*	3.8*	8.2			
3.0 m			9.8*	9.8*	7.4*	6.9	6.1*	4.9	3.9*	3.9*	8.5			
1.5 m			11.0*	10.3	8.0*	6.6	6.4*	4.7	4.1*	3.9	8.6			
0 m	5.6*	5.6*	11.2*	10.0	8.2*	6.4	6.3*	4.6	4.5*	4.0	8.4			
-1.5 m	10.4*	10.4*	10.4*	9.9	7.8*	6.3	5.8*	4.6	5.3*	4.3	7.9			
-3.0 m	11.3*	11.3*	8.7*	8.7*	6.5*	6.4			4.9*	4.9*	7.0			

TRIPLE ARTICULATION - DIPPERSTICK 2.10 M - AXLE 2.75 m

#### **REAR BLADE UP**

						REACH					
Front	3.0	) m	4.5 m		6.0	) m	7.5	m	At max	reach	
Side	ļΝ	<del>-</del>	η	<del>=</del> i	Ψ	<del> </del>	Ψ	<del>=</del> i	ηJ	<b>≑</b> †⊸	m
7.5 m			7.2*	6.5					7.3*	5.3	5.0
6.0 m			7.1*	6.4	5.6	4.1			5.0	3.6	6.4
4.5 m			8.1*	6.2	5.5	4.1			4.1	3.0	7.1
3.0 m			8.2	6.1	5.5	4.1	3.7	2.7	3.7	2.7	7.5
1.5 m	12.2*	10.5	8.1*	6.0	5.5	4.0	3.7	2.6	3.6	2.6	7.6
0 m	15.4	10.6	8.2	5.9	5.3	3.8			3.8	2.7	7.3
-1.5 m	15.9	10.4	8.1	5.7	5.1	3.6			4.6	3.2	6.4
-3.0 m	16.0	10.4							8.3	5.8	4.4

#### **REAR BLADE+FRONT STAB. DOWN**

		REACH													
<b>№</b> Front	3.0	) m	4.5 m		6.0	) m	7.5	m	At max	reach					
Side	ļΠ	<del>-</del>	Ψ	<del>   </del>	Ψ	<b>#</b>	Ψ	<del>  </del>	ή	<del> </del>	m				
7.5 m			7.2*	7.2*					7.3*	7.3*	5.0				
6.0 m			7.1*	7.1*	6.5*	6.3			6.6*	5.7	6.4				
4.5 m			8.1*	8.1*	6.7*	6.2			6.2*	4.7	7.1				
3.0 m			9.7*	9.2	7.4*	6.1	6.0*	4.3	6.0*	4.3	7.5				
1.5 m	12.2*	12.2*	11.0*	9.1	8.0*	6.2	6.5*	4.2	6.2*	4.1	7.6				
0 m	16.4*	16.4*	11.4*	9.3	8.3*	6.0			6.6*	4.3	7.3				
-1.5 m	18.4*	18.4*	11.6*	9.4	8.5*	5.8			7.6*	5.2	6.4				
-3.0 m	19.2*	19.2*							12.0*	9.7	4.4				

#### TRIPLE ARTICULATION - DIPPERSTICK 2.40 M - AXLE 2.75 m

#### **REAR BLADE UP**

						<b>REACH</b>					
<b>▶</b> Front	3.0	) m	4.5	5 m	6.0	) m	7.5	m	At max	reach	
Side	ļΝ	<del> -</del>	Ιμ	<del>=</del>	Ψ	<del> -</del>	Ψ	<del> </del>	Ψ	<del>=</del>	m
7.5 m			6.6*	6.6					6.5	4.7	5.4
6.0 m			6.7*	6.5	5.6	4.2			4.6	3.4	6.7
4.5 m	10.6*	10.6*	7.7*	6.3	5.6	4.2*			3.9	2.8	7.4
3.0 m	10.4*	10.4*	8.2	6.1	5.5	4.2	3.8	2.7	3.5	2.5	7.8
1.5 m	13.1*	10.6	8.0	6.0	5.5*	4.1	3.7	2.7	3.4	2.4	7.9
0 m	15.4	10.7	8.1	5.9	5.4	3.9	3.6	2.6	3.5	2.5	7.6
-1.5 m	15.8*	10.4	8.2	5.8	5.1	3.6			4.2	2.9	6.8
-3.0 m	16.1	10.5	7.8	5.5					6.5	4.6	5.1

#### REAR BLADE+FRONT STAB. DOWN

		REACH												
Front	3.0	m	4.5 m		6.0	m	7.5	m	At max	reach				
Side	Į.	<b>≓i</b> ⊸	Ψ	₩.	ļμ	<b>₩</b>	Ψ	<b>≑i</b> ⊸	ή	₩	m			
7.5 m			6.6*	6.6*					6.7*	6.7*	5.4			
6.0 m			6.7*	6.7*	6.1*	6.1*			6.0*	5.3	6.7			
4.5 m	10.6*	10.6*	7.7*	7.7*	6.5*	6.3			5.7*	4.4	7.4			
3.0 m	10.4*	10.4*	9.3*	9.3	7.1*	6.1	6.0*	4.3	5.7*	4.0	7.8			
1.5 m	13.1*	13.1*	10.8*	9.1*	7.8*	6.1*	6.4*	4.3	5.8*	3.9	7.9			
0 m	16.1*	16.1*	11.3*	9.2*	8.2*	6.1	6.5*	4.2	6.3*	4.1	7.6			
-1.5 m	18.3*	18.3*	11.5*	9.5	8.5*	5.9			7.0*	4.8	6.8			
-3.0 m	19.0*	19.0*	11.8*	9.1					10.0*	7.6	5.1			

## TRIPLE ARTICULATION - DIPPERSTICK 2.94 M - AXLE 2.75 m REAR BLADE UP

						<b>REACH</b>					
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	ļΝ	<b>#</b>	l <sub>l</sub> ij	<del>  -</del> -	ļμ	<b>#</b>	ļį	<del>  </del>	η	<del>  </del> -	m
9.0 m									6.0*	6.0*	4.2
7.5 m					5.3*	4.1			4.6*	3.9	6.1
6.0 m					5.6*	4.3			4.1	3.0	7.3
4.5 m			6.9*	6.3	5.5	4.2*	3.9	2.8	3.5	2.5	8.0
3.0 m	13.1*	10.8	8.2	6.1	5.4	4.1	3.9	2.8	3.2	2.3	8.3
1.5 m	13.0*	10.5	8.0*	5.9	5.4	4.1	3.8	2.7	3.1	2.2	8.4
0 m	15.1*	10.5	8.0*	6.0	5.5	4.0	3.7	2.6	3.2	2.2	8.1
-1.5 m	15.5	10.4	8.1	5.7	5.2	3.7			3.6	2.5	7.5
-3.0 m	15.9	10.3	7.9	5.6					5.0	3.5	6.0

#### **REAR BLADE+FRONT STAB. DOWN**

		REACH												
Front	3.0	m	4.5	i m	6.0	) m	7.5	m	At max	reach				
Side	Ψ	<del> -</del>	Ψ	<del>=</del> -	Ψ	<del> -</del>	Ψ	<del> </del>	Ψ	<del>=</del>	m			
9.0 m									6.0*	6.0*	4.2			
7.5 m					5.3*	5.3*			4.6*	4.6*	6.1			
6.0 m					5.6*	5.6*			4.1*	4.1*	7.3			
4.5 m			6.9*	6.9*	6.0*	6.0*	5.4*	4.4	4.0*	4.0*	8.0			
3.0 m	13.1*	13.1*	8.6*	8.6*	6.7*	6.1*	5.7*	4.4	4.0*	3.7	8.3			
1.5 m	13.0*	13.0*	10.2*	9.1	7.5*	6.0	6.0*	4.3	4.1*	3.6	8.4			
0 m	15.2*	15.2*	11.1*	9.1	8.1*	6.1	6.4*	4.2	4.5*	3.7	8.1			
-1.5 m	17.9*	17.9*	11.3*	9.3	8.2*	5.9			5.3*	4.1	7.5			
-3.0 m	18.5*	18.5*	11.7*	9.2					8.0*	5.7	6.0			

#### **REAR BLADE DOWN**

		REACH											
Front	3.0	m	4.5	m	6.0	) m	7.5	m	At max	reach			
Side	ŀΙ	<del>=</del>	ΙĮ	<del>=</del>	Ψ	<del> </del>	Ιμ	<del>=</del>	Ψ	<del> - -</del> -	m		
7.5 m			7.2*	7.2					7.3*	5.9	5.0		
6.0 m			7.1*	7.1*	6.5*	4.5			6.6*	4.0	6.4		
4.5 m			8.1*	6.9	6.7*	4.6			6.2*	3.3	7.1		
3.0 m			9.7*	6.7	7.4*	4.6	6.0*	3.0	6.0*	3.0	7.5		
1.5 m	12.2*	12.0	11.0*	6.6	8.0*	4.4	6.4	2.9	6.2*	2.9	7.6		
0 m	16.4*	12.1	11.4*	6.6	8.3*	4.2			6.6*	3.0	7.3		
-1.5 m	18.4*	11.9	11.6*	6.4	8.5*	4.0			7.6*	3.6	6.4		
-3.0 m	19.2*	12.0							12.0*	6.5	4.4		

#### FRONT+REAR STAB. DOWN

						<b>REACH</b>					
<b>№ Front</b>	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	η	<b>#</b>	η	<b>≓</b> i	Ψ	<b>#</b>	ΙĮ	<b>≑</b> †⊸	ļμ	<b>₩</b>	m
7.5 m			7.2*	7.2*					7.3*	7.3*	5.0
6.0 m			7.1*	7.1*	6.5*	6.5*			6.6*	6.6*	6.4
4.5 m			8.1*	8.1*	6.7*	6.7*			6.2*	5.4	7.1
3.0 m			9.7*	9.7*	7.4*	7.0	6.0*	4.9	6.0*	4.9	7.5
1.5 m	12.2*	12.2*	11.0*	10.6	8.0*	7.0	6.5*	4.9	6.2*	4.8	7.6
0 m	16.4*	16.4*	11.4*	10.6*	8.3*	7.0			6.6*	5.0	7.3
-1.5 m	18.4*	18.4*	11.6*	11.0	8.5*	6.8			7.6*	6.1	6.4
-3.0 m	19.2*	19.2*							12.0*	11.6	4.4

#### **REAR BLADE DOWN**

						REACH					
<b>№ Front</b>	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	Į.	<del>  </del>	ų.	<del>  </del>	Ψ	<del>  </del>	ų.	<del>  -</del> -	ļ.	<b>₩</b>	m
7.5 m			6.6*	6.6*					6.7*	5.3	5.4
6.0 m			6.7*	6.7*	6.1*	4.6			6.0*	3.7	6.7
4.5 m	10.6*	10.6*	7.7*	6.9	6.5*	4.6			5.7*	3.1	7.4
3.0 m	10.4*	10.4*	9.3*	6.7	7.1*	4.6*	6.0*	3.0	5.7*	2.8	7.8
1.5 m	13.1*	11.9	10.8*	6.6	7.8*	4.5	6.4*	3.0	5.8*	2.7	7.9
0 m	16.1*	12.1	11.3*	6.6	8.2*	4.3	6.4	2.9	6.2	2.8	7.6
-1.5 m	18.3*	11.9	11.5*	6.5	8.5*	4.1			7.0*	3.3	6.8
-3.0 m	19.0*	12.1	11.8*	6.2					10.0*	5.2	5.1

#### FRONT+REAR STAB. DOWN

	REACH												
√ Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach			
Side	Į.	<del>  </del>	Į.	<del>†i</del> ⊸	ļ.	<del>†i</del> ⊢•	Į.	₩-	l <sub>l</sub> i	<del>iri</del> ⊸	m		
7.5 m			6.6*	6.6*					6.7*	6.7*	5.4		
6.0 m			6.7*	6.7*	6.1*	6.1*			6.0*	6.0*	6.7		
<b>4.5 m</b>	10.6*	10.6*	7.7*	7.7*	6.5*	6.5*			5.7*	5.1	7.4		
3.0 m	10.4*	10.4*	9.3*	9.3*	7.1*	7.0	6.0*	5.0	5.7*	4.7	7.8		
1.5 m	13.1*	13.1*	10.8*	10.6*	7.8*	6.9	6.4*	4.9	5.8*	4.6	7.9		
<b>0 m</b>	16.1*	16.1*	11.3*	10.6	8.2*	7.1	6.5*	4.8	6.3*	4.7	7.6		
-1.5 m	18.3*	18.3*	11.5*	10.9*	8.5*	6.9			7.0*	5.6	6.8		
<b>-3.0 m</b>	19.0*	19.0*	11.8*	10.9					10.0*	8.9	5.1		

#### **REAR BLADE DOWN**

	REACH										
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	ly l	<del>=</del>	Į.	<del>=</del>	γI	<del>  </del>	l l	<del>=</del> -	ηJ	<del> </del>	m
9.0 m									6.0*	6.0*	4.2
7.5 m					5.3*	4.6			4.6*	4.4	6.1
6.0 m					5.6*	4.7			4.1*	3.3	7.3
4.5 m			6.9*	6.9*	6.0*	4.6	5.4*	3.2	4.0*	2.8	8.0
3.0 m	13.1*	12.2	8.6*	6.7	6.7*	4.5	5.7*	3.1	4.0*	2.5	8.3
1.5 m	13.0*	11.8	10.2*	6.6	7.5*	4.5	6.0*	3.1	4.1*	2.5	8.4
0 m	15.2*	11.9	11.1*	6.5	8.1*	4.4	6.4*	2.9	4.5*	2.5	8.1
-1.5 m	17.9*	11.9	11.3*	6.4	8.2*	4.1			5.3*	2.8	7.5
-3.0 m	18.5*	11.9	11.7*	6.3					8.0*	3.9	6.0

IIIONIT	HIGHT TILAH STAD. DOWN													
						<b>REACH</b>								
Front	3.0	) m	4.5	m	6.0	) m	7.5	m	At max	reach				
Side	l <sub>i</sub> l	<del>=</del>	Ψ	<del>=</del>	Ψ	<del>=</del>	ΨĮ	<del>=</del>	Ψ	<b>≓</b>	m			
9.0 m									6.0*	6.0*	4.2			
7.5 m					5.3*	5.3*			4.6*	4.6*	6.1			
6.0 m					5.6*	5.6*			4.1*	4.1*	7.3			
4.5 m			6.9*	6.9*	6.0*	6.0*	5.4*	5.1	4.0*	4.0*	8.0			
3.0 m	13.1*	13.1*	8.6*	8.6*	6.7*	6.7*	5.7*	5.1	4.0*	4.0*	8.3			
1.5 m	13.0*	13.0*	10.2*	10.2*	7.5*	6.9*	6.0*	5.0	4.1*	4.1*	8.4			
0 m	15.2*	15.2*	11.1*	10.5*	8.1*	6.9*	6.4*	4.9	4.5*	4.3	8.1			
-1.5 m	17.9*	17.9*	11.3*	10.6	8.2*	6.9			5.3*	4.8	7.5			
-3.0 m	18.5*	18.5*	11.7*	11.0					8.0*	6.7	6.0			

**WX218** 

#### MONO BOOM - DIPPERSTICK 2.10 M - AXLE 2.75 m

#### **REAR BLADE UP**

		REACH												
Front	3.0	m	4.5	i m	6.0	m	7.5	m	At max	reach				
Side	ļΝ	<del>  </del>	Ιμ	<del>=</del>	ļΨ	<del>  </del>	ΙŢ	<del>  </del>	ΙΝ	<b>≑</b> †⊸	m			
7.5 m			7.8*	6.5					6.5	4.7	5.4			
6.0 m			8.1*	6.3	5.5	4.0			4.6	3.3	6.7			
4.5 m			8.3	5.9	5.3	3.9			3.8	2.8	7.4			
3.0 m			7.7	5.3	5.1	3.6	3.7	2.6	3.5	2.5	7.8			
1.5 m				4.9	3.4	3.6	2.5	3.4	2.4		7.9			
0 m			7.1	4.8	4.7	3.3	3.5	2.5	3.5	2.5	7.6			
-1.5 m	10.1*	9.2	7.1	4.9	4.7	3.3			3.9	2.7	7.1			
-3.0 m			7.1*	5.0	4.9	3.5			4.8*	3.4	6.1			

#### REAR BLADE+FRONT STAB. DOWN

		REACH												
<b>▶</b> Front	3.0	) m	4.5 m		6.0	) m	7.5	m	At max	reach				
Side	Ψ	<del>-</del>	Ψ	₩-	Åη	<b>#</b>	Ψ	<del>  </del>	ή	<del> </del>	m			
7.5 m			7.8*	7.8*					7.5*	7.4	5.4			
6.0 m			8.1*	8.1*	7.0*	6.3			6.8*	5.2	6.7			
4.5 m			9.2*	9.2*	7.3*	6.1			6.5*	4.4	7.4			
3.0 m			10.7*	8.9	7.9*	5.8	6.5*	4.2	6.3*	4.0	7.8			
1.5 m					8.3*	5.6	6.5*	4.1	6.1*	3.8	7.9			
0 m			10.8*	8.4	8.1*	5.5	6.1*	4.1	6.0*	4.0	7.6			
-1.5 m	10.1*	10.1*	9.5*	8.4	7.3*	5.5			5.6*	4.4	7.1			
-3.0 m			7.1*	7.1*	4.9*	4.9*			4.8*	4.8*	6.1			

#### MONO BOOM - DIPPERSTICK 2.40 M - AXLE 2.75 m

#### **REAR BLADE UP**

						<b>REACH</b>					
Front	3.0	m	4.5	m	6.0	) m	7.5	m	At max	reach	
Side	ļΝ	<del> -</del>	Ψ	<del>=</del>	Ψ	<del> </del>	Ιμ	<del>-</del>	Ιμ	<del>=</del>	m
7.5 m			7.3*	6.6					5.9	4.3	5.8
6.0 m			7.6*	6.4	5.6	4.1			4.3	3.1	7.0
4.5 m			8.4	6.0	5.4	3.9	3.8	2.7	3.6	2.6	7.7
3.0 m			7.8	5.4	5.1	3.7	3.7	2.6	3.3	2.4	8.1
1.5 m			7.3	5.0	4.9	3.4	3.6	2.5	3.2	2.3	8.1
0 m			7.1	4.8	4.7	3.3	3.5	2.5	3.3	2.3	7.9
-1.5 m	10.7*	9.0	7.1	4.8	4.7	3.3			3.6	2.6	7.3
-3.0 m	9.5*	9.2	7.2	5.0	4.8	3.4			4.5	3.1	6.4

#### REAR BLADE+FRONT STAB. DOWN

		REACH											
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach			
Side	ļΝ	<del> </del>	Ψ	₩	ļμ	<b>₩</b>	Ψ	<b>≑i</b> ⊸	ή	₩	m		
7.5 m			7.3*	7.3*					6.2*	6.2*	5.8		
6.0 m			7.6*	7.6*	6.7*	6.3			5.6*	4.9	7.0		
4.5 m			8.9*	8.9*	7.1*	6.1	6.2*	4.3	5.5*	4.1	7.7		
3.0 m			10.4*	9.0	7.7*	5.9	6.4*	4.2	5.6*	3.8	8.1		
1.5 m			11.3*	8.5	8.2*	5.6	6.5*	4.1	5.9*	3.7	8.1		
0 m			11.1*	8.4	8.2*	5.5	6.3*	4.0	5.8*	3.8	7.9		
-1.5 m	10.7*	10.7*	9.9*	8.4	7.5*	5.4			5.6*	4.2	7.3		
-3.0 m	9.5*	9.5*	7.8*	7.8*	5.7*	5.6			5.0*	5.0*	6.4		

#### MONO BOOM - DIPPERSTICK 2.94 M - AXLE 2.75 m

#### **REAR BLADE UP**

		REACH										
<b>№ Front</b>	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach		
Side	ļΝ	<b>₩</b>	l <sub>l</sub> ij	<del>  </del>	ļ.	<del>  </del>	Į.	<del>-</del>	η	<del>  -</del> -	m	
9.0 m			5.6*	5.6*					5.0*	5.0*	4.7	
7.5 m					5.7	4.2			4.2*	3.6	6.5	
6.0 m					5.6	4.1	3.9	2.8	3.8	2.8	7.6	
4.5 m	11.0*	11.0*	8.1*	6.2	5.4	4.0	3.8	2.8	3.3	2.4	8.2	
3.0 m			7.9	5.6	5.2	3.7	3.7	2.6	3.0	2.1	8.5	
1.5 m			7.4	5.1	4.9	3.5	3.6	2.5	2.9	2.1	8.6	
0 m	5.6*	5.6*	7.1	4.8	4.7	3.3	3.5	2.4	3.0	2.1	8.4	
-1.5 m	10.4*	8.8	7.0	4.8	4.6	3.2	3.4	2.4	3.2	2.3	7.9	
-3.0 m	11.3*	9.0	7.1	4.8	4.7	3.3			3.8	2.7	7.0	

#### **REAR BLADE+FRONT STAB. DOWN**

		REACH											
Front	3.0	m	4.5	m	6.0	) m	7.5	m	At max	reach			
Side	ļΨ	<del>  </del>	Ţ.	₩-	Ψ	<del>  </del>	Į.	<del>  </del>	Ψ	<b>≑</b> i⊸	m		
9.0 m			5.6*	5.6*					5.0*	5.0*	4.7		
7.5 m					5.7*	5.7*			4.2*	4.2*	6.5		
6.0 m					6.2*	6.2*	4.2*	4.2*	3.9*	3.9*	7.6		
4.5 m	11.0*	11.0*	8.1*	8.1*	6.7*	6.2	5.9*	4.3	3.8*	3.7	8.2		
3.0 m			9.8*	9.2	7.4*	5.9	6.1*	4.2	3.9*	3.4	8.5		
1.5 m			11.0*	8.6	8.0*	5.6	6.4*	4.1	4.1*	3.3	8.6		
0 m	5.6*	5.6*	11.2*	8.3	8.2*	5.5	6.3*	4.0	4.5*	3.4	8.4		
-1.5 m	10.4*	10.4*	10.4*	8.3	7.8*	5.4	5.8*	4.0	5.3*	3.7	7.9		
-3.0 m	11.3*	11.3*	8.7*	8.3	6.5*	5.4			4.9*	4.4	7.0		

#### **REAR BLADE DOWN**

	REACH										
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	ŀΙ	<del>=</del>	Ιμ	<del>=</del>	ļΝ	<del>=</del>	l <sub>l</sub> l	<del>=</del>	Ψ	<del> -</del>	m
7.5 m			7.8*	7.2					7.5*	5.2	5.4
6.0 m			8.1*	7.1	7.0*	4.5			6.8*	3.7	6.7
4.5 m			9.2*	6.6	7.3*	4.3			6.5*	3.1	7.4
3.0 m			10.7*	6.0	7.9*	4.1	6.4	2.9	6.0	2.8	7.8
1.5 m					8.3*	3.9	6.3	2.9	5.8	2.7	7.9
0 m			10.8*	5.5	8.1*	3.7	6.1*	2.8	6.0*	2.8	7.6
-1.5 m	10.1*	10.1*	9.5*	5.5	7.3*	3.7			5.6*	3.1	7.1
-3.0 m			7.1*	5.7	4.9*	3.9			4.8*	3.9	6.1

#### FRONT+REAR STAB. DOWN

						<b>REACH</b>					
Front	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	Į.	<del>=</del>	l <sub>l</sub> i	<del> </del>	ļΠ	<del>  </del>	Ιμ	<del>=</del>	ΙŢ	₩-	m
7.5 m			7.8*	7.8*					7.5*	7.5*	5.4
6.0 m			8.1*	8.1*	7.0*	7.0*			6.8*	6.0	6.7
4.5 m			9.2*	9.2*	7.3*	7.1			6.5*	5.0	7.4
3.0 m			10.7*	10.6	7.9*	6.8	6.5*	4.9	6.3*	4.6	7.8
1.5 m					8.3*	6.6	6.5*	4.8	6.1*	4.5	7.9
0 m			10.8*	10.0	8.1*	6.4	6.1*	4.7	6.0*	4.6	7.6
-1.5 m	10.1*	10.1*	9.5*	9.5*	7.3*	6.4			5.6*	5.2	7.1
-3.0 m			7.1*	7.1*	4.9*	4.9*			4.8*	4.8*	6.1

#### **REAR BLADE DOWN**

						REACH					
<b>№ Front</b>	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	Ιμ	<del>=</del>	Ιμ	<del>=</del>	ļΝ	<del>=</del>	l <sub>l</sub> i	<del>=</del>	Ψ	<b>₩</b>	m
7.5 m			7.3*	7.3					6.2*	4.8	5.8
6.0 m			7.6*	7.2	6.7*	4.5			5.6*	3.5	7.0
4.5 m			8.9*	6.7	7.1*	4.3	6.2*	3.1	5.5*	2.9	7.7
3.0 m			10.4*	6.1	7.7*	4.1	6.4*	3.0	5.6*	2.6	8.1
1.5 m			11.3*	5.7	8.2*	3.9	6.3	2.9	5.6	2.5	8.1
0 m			11.1*	5.5	8.2*	3.7	6.2	2.8	5.8	2.6	7.9
-1.5 m	10.7*	10.5	9.9*	5.5	7.5*	3.7			5.6*	2.9	7.3
-3.0 m	9.5*	9.5*	7.8*	5.6	5.7*	3.8			5.0*	3.5	6.4

#### FRONT+REAR STAB. DOWN

	REACH										
<b>№ Front</b>	3.0	m	4.5	m	6.0	m	7.5	m	At max	reach	
Side	Į.	<del>=</del>	lh]	<b>≑</b> i⊸	ļμ	<del> </del>	ll-	<del>=</del>	Ψ	<b>≑i</b> ⊸	m
7.5 m			7.3*	7.3*					6.2*	6.2*	5.8
6.0 m			7.6*	7.6*	6.7*	6.7*			5.6*	5.6*	7.0
4.5 m			8.9*	8.9*	7.1*	7.1*	6.2*	5.0	5.5*	4.8	7.7
3.0 m			10.4*	10.4*	7.7*	6.9	6.4*	4.9	5.6*	4.4	8.1
1.5 m			11.3*	10.2	8.2*	6.6	6.5*	4.8	5.9*	4.3	8.1
0 m			11.1*	10.0	8.2*	6.4	6.3*	4.7	5.8*	4.4	7.9
-1.5 m	10.7*	10.7*	9.9*	9.9*	7.5*	6.4			5.6*	4.9	7.3
-3.0 m	9.5*	9.5*	7.8*	7.8*	5.7*	5.7*			5.0*	5.0*	6.4

#### **REAR BLADE DOWN**

	REACH										
Front	3.0 m		4.5 m		6.0 m		7.5 m		At max reach		
Side	ļμ	<del>=</del>	ļ.	<del> </del>	ÅΙ	<del>  </del>	Ιμ	<del>=</del>	ļΠ	<b>₩</b>	m
9.0 m			5.6*	5.6*					5.0*	5.0*	4.7
7.5 m					5.7*	4.6			4.2*	4.0	6.5
6.0 m					6.2*	4.6	4.2*	3.1	3.9*	3.1	7.6
4.5 m	11.0*	11.0*	8.1*	6.9	6.7*	4.4	5.9*	3.1	3.8*	2.6	8.2
3.0 m			9.8*	6.3	7.4*	4.1	6.1*	3.0	3.9*	2.4	8.5
1.5 m			11.0*	5.7	8.0*	3.9	6.3	2.8	4.1*	2.3	8.6
0 m	5.6*	5.6*	11.2*	5.5	8.2*	3.7	6.2	2.7	4.5*	2.4	8.4
-1.5 m	10.4*	10.3	10.4*	5.4	7.8*	3.6	5.8*	2.7	5.3*	2.6	7.9
-3.0 m	11.3*	10.5	8.7*	5.5	6.5*	3.7			4.9*	3.0	7.0

		REACH									
→ Front	3.0 m		4.5 m		6.0 m		7.5 m		At max reach		
Side		<del>=</del>	Ψ	<del>=</del> -	Ψ	<del>=</del>	Ψ	<del>=</del>	Ψ	<b>≓</b>	m
9.0 m			5.6*	5.6*					5.0*	5.0*	4.7
7.5 m					5.7*	5.7*			4.2*	4.2*	6.5
6.0 m					6.2*	6.2*	4.2*	4.2*	3.9*	3.9*	7.6
4.5 m	11.0*	11.0*	8.1*	8.1*	6.7*	6.7*	5.9*	5.0	3.8*	3.8*	8.2
3.0 m			9.8*	9.8*	7.4*	6.9	6.1*	4.9	3.9*	3.9*	8.5
1.5 m			11.0*	10.3	8.0*	6.6	6.4*	4.8	4.1*	3.9	8.6
0 m	5.6*	5.6*	11.2*	10.0	8.2*	6.4	6.3*	4.7	4.5*	4.0	8.4
-1.5 m	10.4*	10.4*	10.4*	9.9	7.8*	6.3	5.8*	4.6	5.3*	4.3	7.9
-3.0 m	11.3*	11.3*	8.7*	8.7*	6.5*	6.4			4.9*	4.9*	7.0





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