



IGLAND

User manual

Log trailer 180



Read through the entire manual before using the product. It contains important safety information.



nøsted &

Thank you for choosing a timber trailer from IGLAND!

This user manual is designed to provide you with detailed information about the use, installation, safety, and maintenance of the equipment.

It is important that you read this manual carefully before using the machine.

The safety of our users is our highest priority. This manual contains important information on how to use the machine safely and avoid potential hazards.

To ensure your safety, we want you to be aware of and consider that accidents, misuse, and equipment failure can lead to dangerous situations. It is important that you position yourself during work so that any accident does not result in personal injury.

The instructions provided in this manual must always be followed. Careless or incorrect use can result in serious injury or death. Modifications or other alterations to the original design of the product are made at your own risk and responsibility. It is important to note that any modification or alteration of the product will void the warranty.

For a valid warranty, please remember that the acceptance form supplied with the product must be returned within 14 days.

If you have any questions or need assistance, please contact our service center at +47 479 20 192. Always state the type, serial number, and year of manufacture when making inquiries and ordering parts.

We are here to help you have a safe and enjoyable user experience.

Product	
	Igland 180 timber trailer

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AI-translated from the original user manual

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1. EXTRA EQUIPMENT

NB Factory-fitted optional extras cannot be retrofitted and must be ordered at the same time as a new trailer.

PRODUCT NO.	DESCRIPTION
IG408030	Extra stake set, adjustable position
IG400071	Stake extender, 30 cm (1 pc)
60211	TRYGG SMT 8 mm chain for 11.5/80-15.3 (2 pcs)
IG402060	Hydraulic unit, with pump and tank. 55 L/min, 190 bar, 540 RPM
IG400051	1601 hydraulic winch with radio control - factory-fitted
IG3000	1601 hydraulic winch with radio control - retrofitted
IG420065	Telescopic boom for crane center

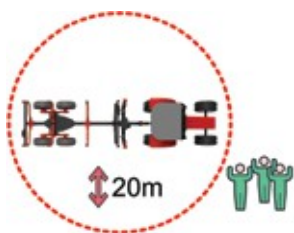


2. SAFETY INSTRUCTIONS

2.1 General safety instructions

To ensure safe use of the timber trailer, it is important to follow our safety instructions carefully.

- **Read the user manual:** Before using the log grapple and any additional equipment, you must read and carefully review the user manual to understand proper use and maintenance.
- **Area of use:** The log hanger and crane are only intended for loading and moving logs and must never be used to transport or lift people or for any other purpose. The manufacturer is not liable for damage or destruction caused by misuse of the equipment.
- **Safety distance:** Always observe safety distances. Persons other than the operator must maintain a minimum distance of 20 m at all times.



2.1.1 Persons other than the operator must maintain a minimum distance of 20 meters at all times

- **Crane operation:** Only operate the crane from the tractor cab, or at a safe distance from the crane's effective range if you have radio control.
- **Emergency stop:** Ensure that emergency stop mechanisms, such as the ignition lock, are accessible from the driver's seat for immediate use in an emergency.
- **Risk of crushing:** Be aware of the risk of crushing from all moving parts.
- **Risk of tipping:** Always be aware of the risk of tipping during loading and driving. Keep the truck in a stable position.
- **Personal protective equipment:** Always wear the necessary personal protective equipment, including a helmet, safety goggles, gloves, and safety shoes during operation.
- **Modifications or other alterations to the original design of the product** are made at your own risk and responsibility. It is important to note that any modification or alteration of the product will void the warranty.
- **Avoid hazardous areas:** Never walk or stand under the crane while it is in use.

2.2 Safe use

To ensure your safety, please note the following points.

- **Positioning of the timber trailer and control unit:** Ensure that the timber trailer is stable, level, and that the support legs are positioned on solid ground before use. Avoid positioning or handling the control unit in such a way that it poses a risk of accidental operation of the crane.
- **Lifting capacity:** Never lift more than the maximum weight for which the crane arm is designed. See the lifting diagram on the crane boom. And on page 15. Never lift with the maximum load on a short arm/at an angle and then extend/shoot out the crane to its full length. If a crane is subjected to repeated mechanical overloads, this can eventually lead to sudden failure. See the lifting diagram on the crane boom. And on page 15.
- **Drive smoothly and steadily with soft starts/stops:** Avoid sudden and jerky driving.
- **Do not adjust the pressure on the different sections to the control unit:** Increasing the lifting or slewing capacity of the crane by increasing the pressure settings may lead to overload and serious damage/breakage.
- **Hydraulic oil:** Only use hydraulic oil recommended by the manufacturer (10W-30).
- **High temperature and pressure on the hydraulic cylinder:** Be aware that hose breakage can occur and that the temperature and pressure on the hydraulic cylinder can be high.
- **Avoid low temperatures:** Do not use the crane at temperatures below -20°C.
- **When working near live cables,** the operator is responsible for familiarizing themselves with and complying with applicable laws and regulations. Contact or flashovers can cause serious injury!
- **Do not stand under the crane or load.**



2.2.1 Never walk or stand under the crane or load while it is in use

2.3 Loading

- Always use the support legs when loading. Make sure they are placed on a firm surface.
- Pull the poles close to the timber hanger before lifting them.
- Move the crane in smooth, steady movements. Quick, jerky movements increase the risk of tipping, especially when the crane is carrying a load.
- Do not extend the crane further when it is already at maximum load.
- Make sure that the support legs do not drag branches or logs that could hit the tractor cab or create dangerous situations.

2.4 Stability

- Always ensure that the weight is centered in front of the middle of the bogie.
- A center of gravity close to the tractor will provide better traction, but will make the timber trailer less stable.
- Be aware of the terrain and avoid driving over stumps, rocks, or uneven ground.
- Be careful when driving down slopes.
- Avoid driving down steep slopes.
- Remember that high loads increase the risk of tipping.
- Never lift the support legs or move the trailer without the crane is positioned on the frame or load.

2.5 Checklist before use

- Ensure that you have a full overview of the work area.
- Keep children away from the work area.
- Ensure that all guards and components are in the correct positions.
- Inspect for visible cracks or damage that could affect operation and safety. Any damage must be repaired by qualified personnel before the crane is used.
- Inspect hydraulic hoses and couplings for leaks.
- Inspect bolts to ensure they are intact and free of damage, cracks, or loose nuts.

- Check that the hydraulic oil level in the oil tank is sufficient.
- Lubricate the machine according to the lubrication guide - see guide in the Maintenance chapter.
- Check the tire pressure.
- Check the wheel nuts.
- Ensure that moving parts are not blocked by debris, twigs, snow, ice, etc.
- Check for any movement when the control levers are in the neutral position.
- Check the hydraulic controls for proper response and remove any air from the system by repeatedly operating a function to full travel.
- Check moving parts for slack or unusual noises.

2.6 Storage

- Secure the grapple to the trailer frame. Turn off the oil supply and release the pressure by operating the levers.
- Maintain any electrical contacts with a corrosion protection agent. If possible, store electrical components indoors.
- Avoid leaving the timber trailer loaded for long periods of time to prevent damage to the equipment.
- Block the wheels to secure the trailer against rolling or sliding.
- Do not allow children to climb or play on or near the timber trailer.
- Never park the timber trailer with a load.

3. MAIN COMPONENTS



No. Components

- | | | |
|---|--------------------|-------------------------------------|
| 1. Bogie | 7. Towing eye | 13. Boom |
| 2. Stakes | 8. Frame | 14. Stick |
| 3. Wheels | 9. Mounting flange | 15. Rotator |
| 4. Grid | 10. Swing cylinder | 16. Claw |
| 5. Crane base with hydraulic support legs | 11. Swing housing | 17. Attachment for 1601 crane winch |
| 6. Parking support | 12. Crane stem | 18. Sprocket for crane winch |

4. TECHNICAL SPECIFICATIONS

Igland 180 timber trailer	
General specifications	
Length	5,300 mm
Width	1,872 mm
Weight	1,210 kg (without crane)
Wheel size	11.5/80-15.3
Tire pattern	AW 909
Tire pressure	3.4 bar
Stakes	2
Brakes	No
Wheel bolts	M18 x 1.5 (6 pcs)
Torque	270-290 Nm
Swingtrac	No
Registerable	No
Swing in bogie	Yes

Important limitations	
Permissible total weight (in the forest)	8,000 kg
Load capacity (without crane)	6,790 kg
Maximum axle load (per wheel)	1,900 kg
Maximum vertical load on tow eye	2,000 kg
Load length	3,704 mm
Load area	1.66 m
Maximum speed	40 km/h

Igland 32-51 crane	
General specifications	
Claw	0.16
Reach	5.1
Projectile	No
Working pressure	190 bar
Recommended pump capacity	30-55 l/min
Crane rotation	360
Weight (with claw and rotator)	580 kg
Operation	2-lever
Max. grapple opening	101 cm
Weight (including rotator and grapple)	580 kg

Important limitations	
Torque	5.38 kNm
Lifting force at max. reach (without claw and rotator)	530 kg
Lifting capacity at 4 meters (without claw and rotator)	570 kg
Lifting torque (gross)	29 kNm
Maximum opening of log grapple	101 cm

5. HANGER COMPONENTS

5.1 Parking support

Lower the parking support when parking the trailer, and raise it after the trailer has been attached to a tractor. Secure the parking support with the bolt and pin at the correct height.

The support is only intended to hold the weight of an empty trailer. Do not park the trailer with a load!

Always insert the locking pin through the bolt.



5.1.1 Always insert the locking pin through the bolt

5.2 Tow eye

The towing eye is attached to the front of the frame with four bolts.

The standard towing eye is rotatable. Tightening torque:

430 Nm



5.2.1 Mounting bolts for drawbar eye

5.3 Crane

The trailer is equipped with a 32-51 crane and 0.16 grab claw.

5.4 Bogie with swivel

The bogie can swing up to 25 degrees in each direction.

5.5 Crane foot, grid, and support legs

The grid, crane foot and support legs are located in a single unit on the frame. It is attached to the frame with a base plate and six bolts.



5.5.1 Bolts for attaching the grid



5.5.2 Three-point attachment with support legs

5.6 Stakes

The stakes are attached above the wheels and clamped around the frame. Stakes mounted around the frame can be moved back and forth to the desired position. Additional stake sets can be mounted for better support of timber.

Stakes can be extended by 30 cm (optional extra). The extensions are attached with a bolt.



5.6.1 Stake set and stake extension with through bolt

5.7 Hydraulic unit (optional) The trailer can be equipped with a hydraulic unit to supply oil to the crane. The tank is attached between the grille and the 3-point frame. The pump is driven by the tractor's power take-off.

The tank must be filled with 10–30 W oil. Always check the oil level before use. The pump gearbox must be filled with 80–90 W gear oil. Change the oil and filter in accordance with the maintenance manual.

5.8 1601 winch (optional)

The crane can be equipped with a hydraulic remote-controlled winch to pull timber that the crane cannot reach.

See separate manual for more information.

6. INSTALLATION

6.1 Mounting to tractor

Back the tractor up to the trailer and hook the tow eye onto the tow hook. Make sure that the tow hook locks into place. Move the parking support and secure it with the bolt and pin.

6.2 Crane hoses

Connect the pressure hose (ISO coupling/red cap) to a hydraulic outlet on the tractor. Connect the return hose (open coupling/blue cap) to a resistance-free return line or the tank on the tractor.

6.3 Bogie steering

Connect the hoses to a double-acting hydraulic outlet on the tractor. Remove the locking bolt before use. The hydraulic outlet must be closed (not in flow) when not in use!



6.3.1 Bolt for locking the swing

6.4 Valve location

Place the valve on the telescopic arm (optional) or by/in the rear window of the tractor to operate it from the cab. Pressure hoses must not be inside the cab!

6.5 Hydraulic unit (optional)

Connect the pump to the tractor's power take-off. Secure the chain or lever to prevent the pump from rotating. Make sure that the hoses are not bent or pinched when turning and driving on uneven terrain. Also make sure that they do not get caught in the drawbars or other protruding parts of the tractor.

6.6 1601 winch (optional)

Connect the radio to the valve and 12 V power supply from the tractor. See separate manual for further instructions.

6.7 Mounting the crane

To mount a crane on the crane base, use a crane to lift it into place. Never lift the crane by the cylinders! Make sure that the mounting surface is clean on both the crane and the base. Place the crane in the correct position and fit the bolts and nuts with lock washers.

Tighten the bolts to a torque of 600 Nm.

If the crane is used on a 3-point frame on the tractor, do not use a hydraulic top link!

7. TRANSPORT

Place the grab claw on/around the trailer frame or on the load. Extending the crane backwards will distribute more weight to the bogie, making an empty trailer more stable. Ensure that the parking leg and support legs are in the upper position before transport. Turn off the oil supply from the tractor (or PTO) to prevent unwanted movement of the crane or support legs.

Position the bogie control bolt when driving on the road. Ensure that lights are visible and that branches do not protrude from the trailer. Be aware of weight restrictions in vehicle registration certificate. The driver is responsible for ensuring that transport is carried out in accordance with laws and regulations.

NB! Never use hydraulic operation above 5 km/h.

8. PARKING AND STORAGE

Empty the trailer before storage. Place the grab claw around the trailer frame. After the oil supply has been stopped, release the pressure in the valves by moving the levers. Disconnect all hoses from the tractor, lower the parking leg, and detach the tow eye from the tractor. Lock the wheels with wheel chocks or similar to prevent the trailer from rolling.

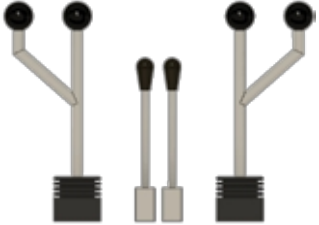
For long-term storage, the crane and trailer must be lubricated. Visible cylinder rods must be covered with protective grease to prevent corrosion.

Electrical components should be stored in a dry place. Check for moisture inside before storing for long periods.

9. OPERATION

9.1 Control units

9.1.1 Overview of control units

	From top	From the side
Standard 2-lever All functions are operated using lever controls on the hydraulic control panel.		

9.1.2 Standard 2-lever

Description	Control unit	Illustration
Support leg Center levers Up/down		
		
Stick Left lever Up/down		
		
Turn Left lever Left/right		
		

Description	Control unit	Illustration
Boom Right lever Up/down		
		
Rotator Right lever Left/right		
		
Claw Right lever Up/down		
		

9.2 Loading

Lower the support legs before loading. Make sure that the legs are positioned on a firm surface. Move the crane to the timber and open the grapple. Grasp a suitable amount of timber with the grapple and lift it onto the trailer. Always pull the timber towards the trailer before lifting to reduce the lifting load. Reduce the load if the crane struggles to lift it. Never extend the crane further when it is already at maximum load!

Operate the crane with calm and steady movements. Rapid and uncontrolled movements will increase the risk of tipping and injury. Always pay attention to the stability of the trailer. When operating the crane, the trailer will be less stable with a smaller load.

Make sure that short logs are supported by at least two stakes, or place them on top of longer logs.

Always keep transportation in mind when loading. Ensure that the weight distribution and size of the load are suitable for the terrain. Long poles may touch the ground if placed at the bottom.

When unloading, grab a suitable load and place it in the desired position. Be careful to avoid grabbing the frame or poles.

9.3 Bogie steering

The steering system on the bogie is used to maneuver the trailer easily. It can be used for normal turning, reversing, turning around, and to make the trailer follow the tractor's tracks. Obstacles such as stumps and the like can be avoided by turning around them. Always lock the steering with a bolt when driving on public roads.

10. MAINTENANCE

10.1 Service table

Interval	Component	Description
"Every 5 hours up to the first 50 hours"	Lubrication points	Lubricate with grease
First 10 hours	Wheel nuts	"Retighten to 270-290 Nm"
	Towing eye	Retighten to 430 Nm
	Grid/crane foot and stakes	Retighten to 350 Nm
	"Crane - Bolts on mounting flange"	Retighten to 600 Nm (bolts with nuts) and 350 Nm (bolts without nuts)
	"Crane - Bolts in joints to boom and stick"	Retighten to 700 Nm
Every 10 hours	Lubrication points	Lubricate with grease
First 20 hours	Swing frame	Oil change - 80W-90
First 50 hours	"Pressure filter (hydraulic unit/radio)"	Insert replaced
	"Pump gearbox (hydraulic unit)"	Oil change - 80W-90
"Every 100 hours/annually"	Wheel nuts	"Tighten to 270-290 Nm"
	Pull eye	Tighten to 430 Nm
	Grid/crane foot and stakes	Retighten to 350 Nm
	"Crane - Bolts on mounting flange"	"Retighten to 600 Nm (bolts with nuts) and 350 Nm (bolts without nuts)"
	"Crane - Bolts in joints to boom and jib"	Retighten to 700 Nm
First 200 hours	Wheel bearings	Check for slack
"Every 400 hours/annually"	Swing frame	Oil change - 80W-90
"Every 500 hours/annually"	"Pressure filter (hydraulic unit/radio)"	Insert replaced
"Every 1000 hours/6 months"	"Pump gearbox (hydraulic unit)"	Oil change - 80W-90
Every 1500 hours	Wheel bearing	Check for slack
Every 3000 hours	Wheel bearings	Lubricate with ADR Lithogrease 3
"Every 4000 hours/every two years"	Hydraulic unit	Oil change - 10W-30

10.2 Checking for slack in wheel bearings

Lift the wheel off the ground and place a lever, crowbar or similar between the wheel and the ground. Lift the lever to reveal any play in the wheel bearings.

If there is play in the bearing, contact your dealer or workshop for adjustment.

10.3 Lubrication points

The following points must be lubricated in accordance with the lubrication intervals:



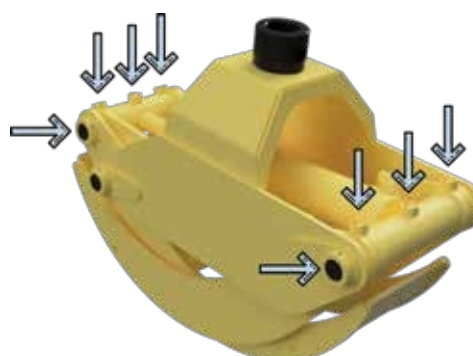
10.3.1 Towing eye



10.3.2 Swivel cylinders for bogie Both sides of the trailer

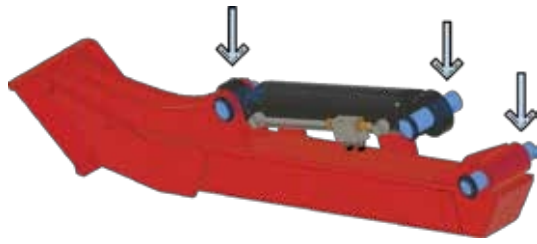


10.3.3 Locking bolt

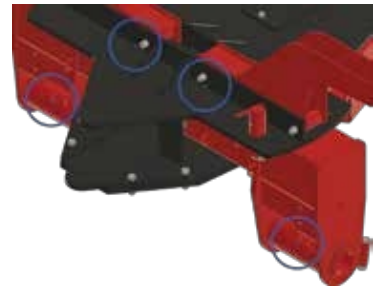


10.3.4 Claw (0.16)

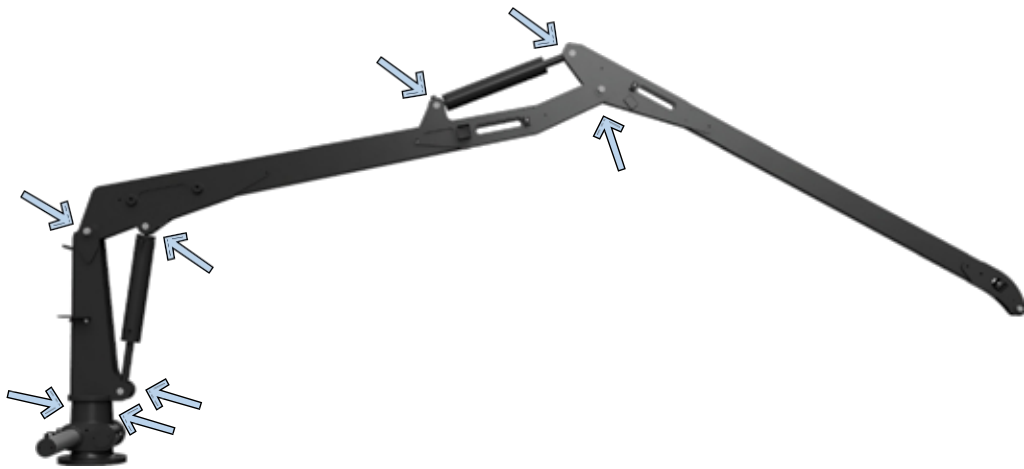
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10.3.5 Support leg
Both sides of the hanger



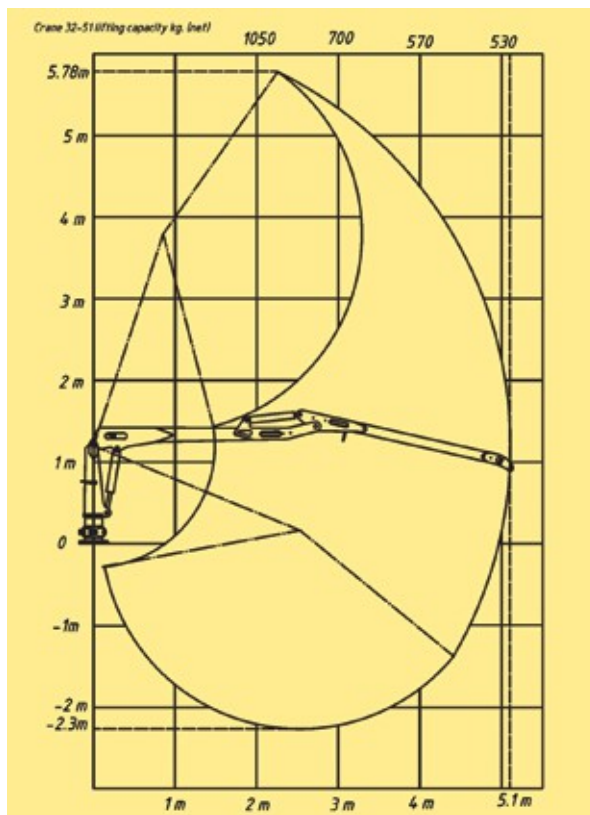
10.3.6 Bogie
Also lubricate the surface where the swing frame slides
against the trailer frame



10.3.7 Crane 32-51

11. LIFTING DIAGRAM

Lifting diagram for cranes illustrating lifting capacity at different ranges. The weight of the claw is included in the total weight specified. The weight of the claw is ~100 kg.



32-51 Lifting diagram



IGLAND Workshop and Service Center

Our Workshop and Service Center in Mandal provides technical support for all our products.

We service and repair older and well-used winches. This extends the life of the products and is good for the environment.

Do you need:

Technical support for timber trailers

Accessories or additional equipment

An appointment for service or repair of a

winch Call our service office on +47 372 56 200

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