



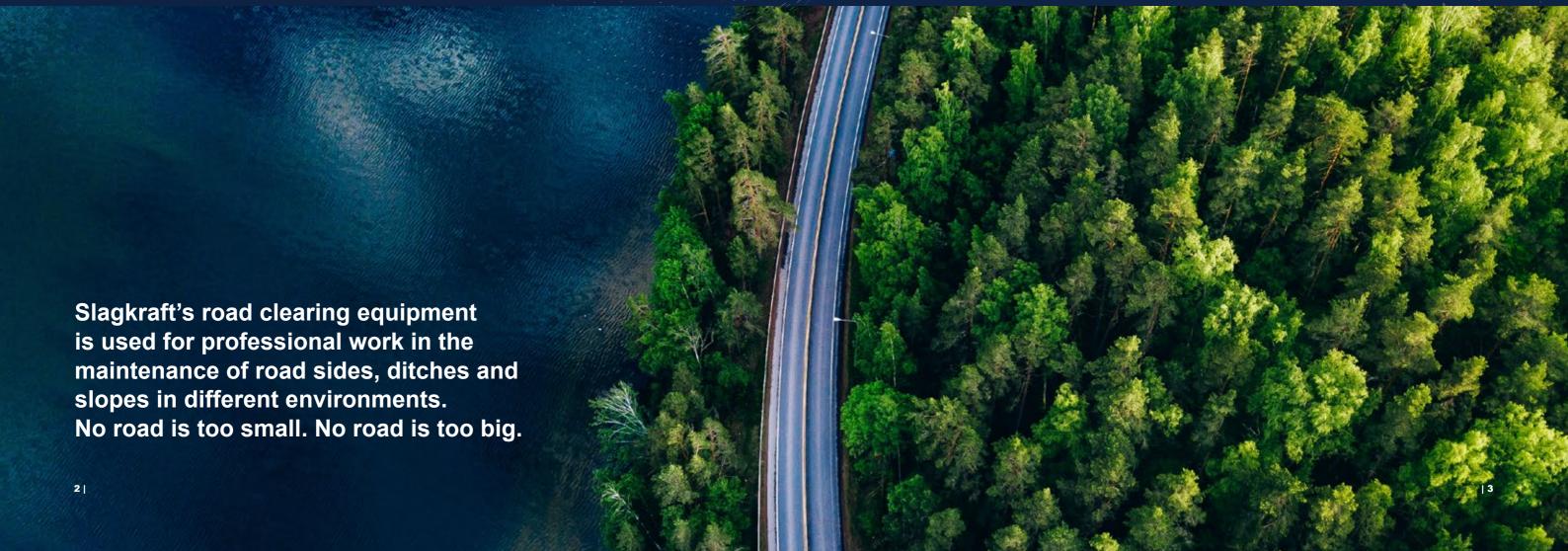
# Robust equipment for safe roads

Slagkraft is Scandinavia's leading manufacturer of road clearing machines. Through 45 years of development, manufacturing and collaboration with customers, we have built up a product range that is recognized and liked by professional users throughout Europe.

Our system for road clearing machines consists of power packs, cranes and mowers. The program is module-based and depending on the type of machine that carries the equipment, all or parts of the system are used. In addition to the great flexibility, Slagkraft's products are known for being reliable, ergonomic and of very high quality.

We create road clearing machines for you who make the roads safer. Well-cut ditches, slopes and roadsides mean better visibility and lower accident risk. There is a clear link between road maintenance and road safety. We have what is needed for you who pave the way for safe traffic.





# Solutions for many different needs.

Slagkraft road clearing equipment has many combination possibilities. The system is adapted for several types of carrier machines, machine sizes and areas of use. The products have worldclass driving characteristics and are durable for tough and continuous use during long work shifts.

Slagkraft equipment is developed for wheel loaders, graders and other machines such as agricultural tractors.

The program is complete, from engine power packs to cutter including control systems. We deliver solutions that suit both the machine, the environment and the assignment.



From 10 ton machines and up.

Slagkraft products are suitable for both smaller and larger wheel loaders.

#### → GRADERS

Clearing makes the grader more versatile.

We have solutions with both under-mounted and side-mounted units.

#### OTHER MACHINES

Do you want to clear with another carrier?

Slagkraft products can for example be used on, agricultural tractors, backhoe loaders and excavators.



# What solution suits you?

Choose power pack, crane and mower according to your specific needs.

Slagkraft's modular system consists of power packs of various sizes, cranes with ranges from five up to eleven meters and complete mowers for bush clearing and grass clearing.

To achieve the best work result, it is important to have the right product combination. As an aid, we have therefore produced a clear product guide that shows which power packages, cranes and mowers fit together with different carrying machines. The guide can be found at the bottom of the page.

#### AN INTRODUCTION TO SLAGKRAFT CLEARANCE SYSTEMS

Our power packs are well-developed, reliable and strong. They are fuel efficient and meet all applicable emission requirements within the framework of EU Stage V. The power packs are well balanced and are available for front mounting on wheel loaders and tractors as well as side or under mounting on graders.

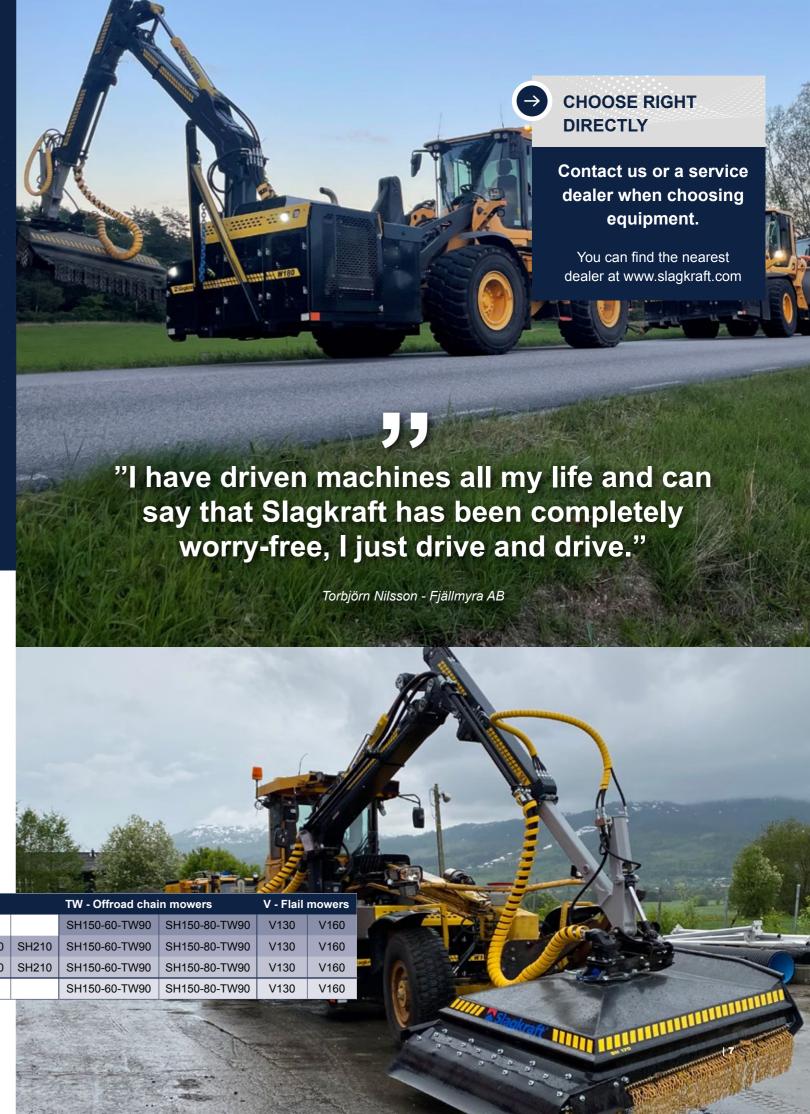
Our cranes are robust, have ranges up to eleven meters and are very compliant. The latest models are based on the same technology as Cranab's popular forwarder cranes and are, among other things, equipped with protected hose routing and a high crane pilar for the best visibility. We have both single and double telescopic cranes.

Our mowers are strong and protect both the environment and equipment thanks to durable side plates, chain curtains and rubber parts. The sturdy and sloping cover means that the mower is always kept clean from grass and bush.

The machine operator controls all equipment comfortably and safely from the cab. The joystick is ergonomic and all machine information is clearly shown via a color touch screen where settings can also be made. The driving characteristics are very good thanks to the compliant hydraulics and the modern, proportional steering system.

VEHICLE	POWER PACK	COMPACT	CRANE				SH - Ch	ain mowe	ers		
Wheel loaders from 10ton	W70			SC7			SH125	SH150	SH170		
Wheel loaders from 13ton	W180			SC7	SC8		SH125	SH150	SH170	SH190	SH21
Graders - Side hung	G180					SC160	SH125	SH150	SH170	SH190	SH21
Wheel loaders from 10ton		Compact	SC45				SH125	SH150			

These are Slagkraft recommendations, but depending on the carrier and needs, there are opportunities for other adaptations.





# Strong, efficient power packs that do the job during tough work shifts - every day.

Slagkraft's stong power packs are environmentally friendly, user-friendly and have world-class operating characteristics. All packages contain well-built diesel engines from one of the world's leading engine manufacturers, Caterpillar. The engines are efficient and meet all applicable emission requirements for EU Stage V.

Our power packs are well-designed and robust. They are also easy to maintain, service and to mount on the machine.

Each power pack is combined with a crane and a stroke. To choose the right power pack, you start from the type of carrier machine you have, the size of the carrier and the crane model to be used. The crane is selected based on the desired range, type of mower as well as the working width of the mower.

#### **OUR POWER PACKS**



**W70** • Our smallest power pack with great power and performance. Engine power 55 kW / 75 hp. No DEF fluid is needed.



**W180** • New generation powerful power pack for wheel loaders. Powered by a powerful CAT C4.4 diesel engine that produces 129kW / 175hp.



**G180** • A robust power pack adapted for use on graders. Built on the same technology and has the same performance as the W180.





Our strong power packs have effects from 55 kW to 129 kW

More technical specifications can be found on page 26





#### W70 - a power pack for slightly smaller machines

Our smallest diesel-powered power pack W70 is adapted for smaller carriers. The package is intended to be used primarily for clearing road networks and areas where flexibility is required.

#### **DESIGN**

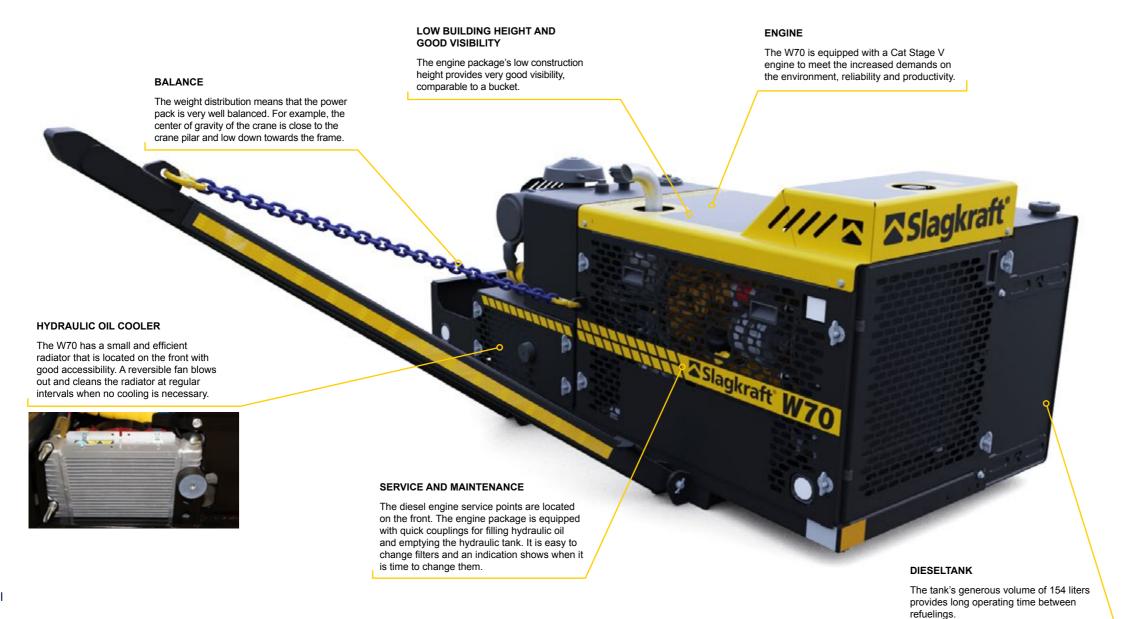
The power pack is designed and engineered to be reliable and compact. It has a low construction height and optimal center of gravity for best visibility and balance.

#### ENGINE

The W70 is powered by a Cat C3.6 diesel engine and fulfils the emission standards of EU Stage V. The engine has no DEF system and does not need DEF fluid or similar additives as the engine power is 55 kW.

#### **HYDRAULICS**

The components of the hydraulic system are selected with a view to high operational reliability, compliance and good driving characteristics. They are also easily accessible for service and maintenance.





#### ... The low engine package provides a visibility comparable to a bucket?

We have improved the design of the W70. The construction height is only 945 mm on the middle part of the package. Together with the SC7 crane, which is open around the crane pillar and lifting arm, the transparency is extra good.

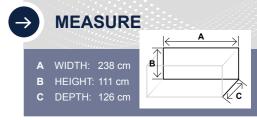
... The W70 has an electronic main switch.

This makes the start-up procedure easier for the operator and reduces the risk of forgetting to turn off the power.



#### W70 COMBINATIONS

W70 fits very well with our latest crane model SC7. It is a flexible solution that has a range of up to 7.5m with SH170 stroke.





#### W180 & G180 - similar but not identical power packs.

Our largest diesel-powered power packs W180 and G180 are very similar. The main difference is that the W180 is used for wheel loaders and under mounting on graders and the G180 for sidemounted mounting on graders. Both packages are really robust and powerful.

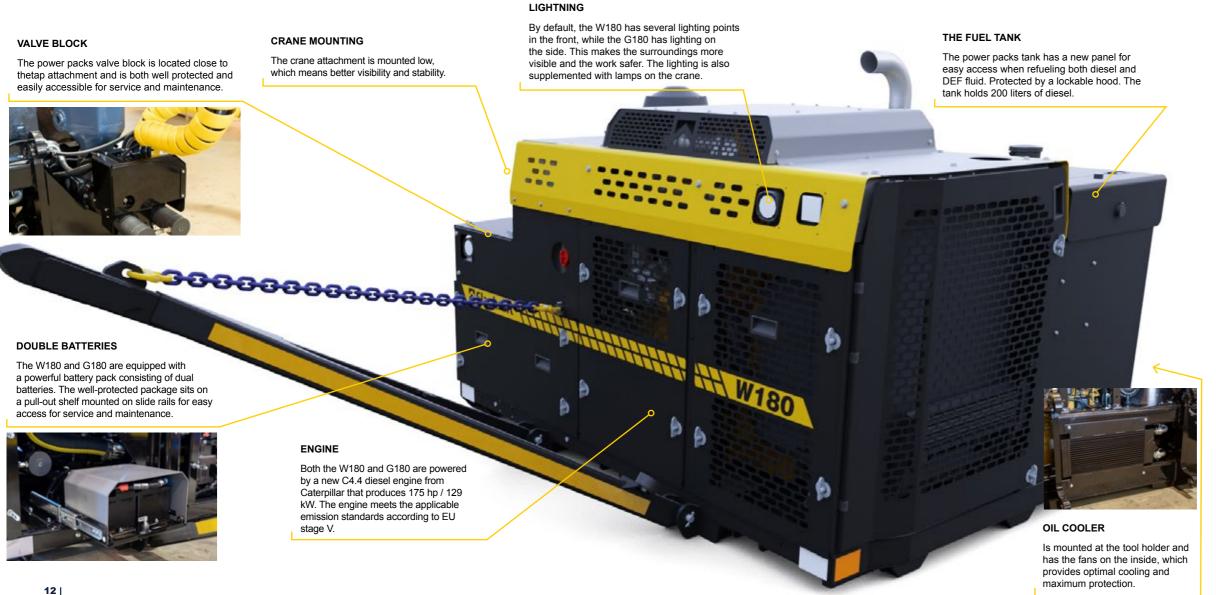
#### DESIGN

The W180 and G180 engine packages are designed and engineered based on performance, reliability and serviceability. Everything is gathered and protected but at the same time easily accessible.

The heart of the power pack is a diesel-powered C4.4 engine from Caterpillar that provides 176 horsepower (129 kW) and 750 Nm (at 1400 rpm). The engine is fuel efficient and meets the emission requirements for EU Stage V.

#### THE NEW GENERATION

The W180 and G180 are part of the new generation of engine packages with, for example, low-positioned crane mounting, Stage V motor, better placed components and smart solutions. The result is very good weight distribution, balance, fine driving characteristics and very good visibility.



#### **GOOD TO KNOW!**

The main difference is that the W180 is used for wheel loaders and under mounting on graders and the G180 for side-mounted mounting on graders.

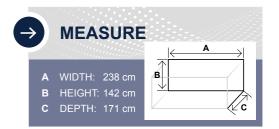
#### SERVICE AND MAINTENANCE

The engine packages are designed to be easy to maintain, whether it's refilling fluids, filter changes or daily inspections.

#### **POSSIBLE COMBINATIONS**

W180 can be combined with crane models SC7 and SC8. G180 is combined with SC160.

Depending on the choice of crane, most of





# With our cranes you can reach both safe and long.

Our cranes are manufactured with high demands on quality and reliability. With technical solutions, including four-point linkage and double swing system, they are built to ensure the needs for efficiency and reliability that are met in professional use.

Cranes SC7 and SC8 belong to Slagkraft's new crane generation. They are based on Cranab's popular technology for forwarder cranes with properties such as high operational reliability, leading material, protected construction of both hoses and hydraulic cylinders and an optimized geometry.

Our cranes are offered with different ranges, all to suit the conditions of road clearing and nature as well as each user's needs.



#### **WORKING WIDTH**

Our unique twin slew system makes it possible to work on both sides of the machine.

Standard on SC7 and SC8. Optional on SC45 and SC160.



**SC45** • A small and flexible crane with a range of up to 6.3 meters with an SH150 mower.



**SC7** • A modern crane with a high crane pillar, shorter lifting arm and protected protected routing. For clearing smaller roads.



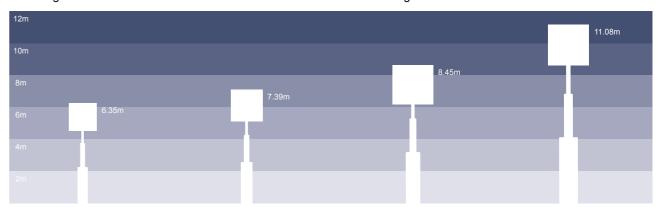
**SC8** • A crane with the latest technology, high crane pillars and protected construction. Range up to 8.5 meters.



**SC160** • A robust crane with a long range up to 11 meters and double telescopic technology. For clearing larger road networks.

#### Maximum range with each stroke

The range is illustrated based on our recommendation on the choice of largest cutter.



Crane SC45 with mower SH150 Crane SC7 with mower SH170 Crane SC8 with mower SH210 Crane SC160 with mower SH210



#### SC45 and SC160 - well-proven and reliable cranes

Slagkraft cranes SC45 and SC160 are reliable and well-built for efficient bush clearing.

#### **EFFICIENT WORK**

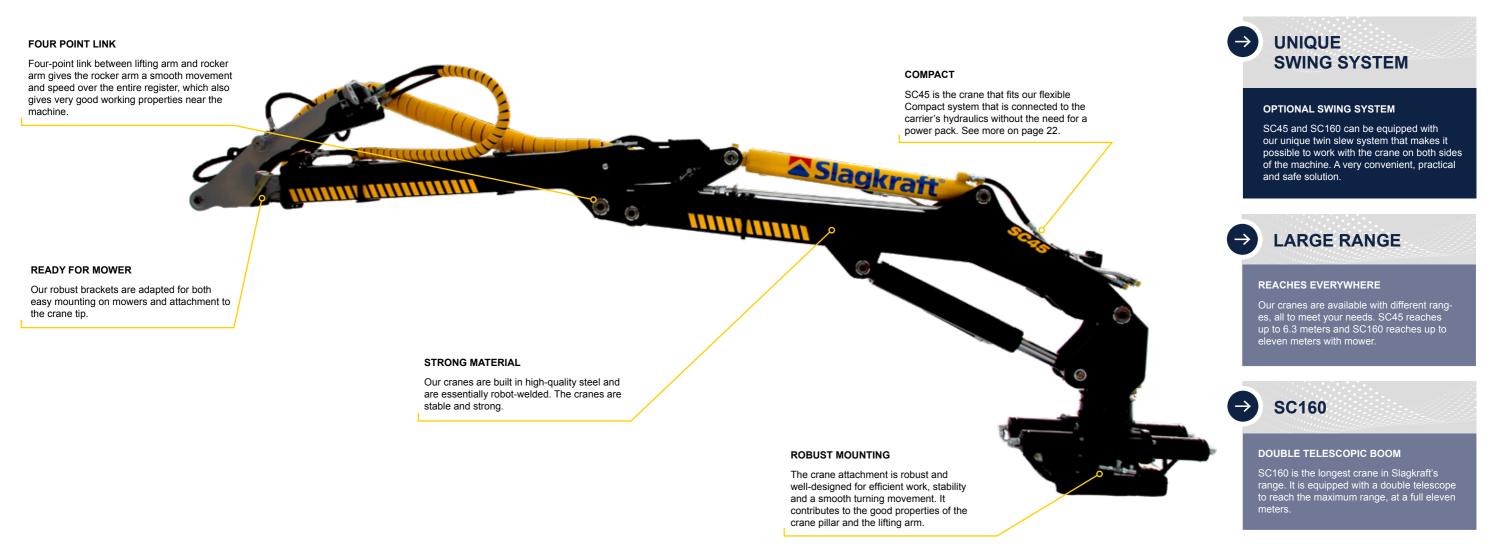
The cranes are manufactured with high demands on quality and reliability. With technical solutions such as four-point linkage and double swing system are built to ensure the needs for efficiency and reliability that are met professional users.

#### LEADING RANGE

SC160 is the largest crane we offer in the program. It has the longest range of all cranes. Thanks to its double telescopic technology, it reaches up to 11 meters, which makes it especially useful in work where you have to reach really far and to meet the customer's special requirements for clearing.

#### CAREFULLY SELECTED MATERIALS

We manufacture our cranes in high-quality steel and the welding process is essentially robotic. We put a lot of care into the work to achieve best service life.





#### SC7 and SC8 - with high crane pillar for good visibility

The cranes SC7 and SC8 belong to our new and modern crane generation completely adapted for Slagkraft's products and road clearing work.

#### RECOGNIZED TECHNOLOGY

The new SC7 and SC8 are based on technology and features taken directly from Cranab's world-famous forwarder cranes. Distinctive features are high operational reliability, leading material selection, and optimized geometry.

#### **UNIQUE TURNING SYSTEM**

SC7 and SC8 are as standard already from the factory equipped for our unique twin slew that makes it possible to work with the crane on both sides of the machine. This means that with a frontmounted power pack it is possible to clear the left and right side of the machine in the same direction of travel. A very efficient and traffic-safe solution.



#### SC7 - SC8

SERVICE-FRIENDLY

Thanks to the cranes' protected construction for hoses and cylinders, the need for maintenance is very small. The lubrication points are retracted and easily accessible.

## $\Rightarrow$

#### **WORKING LIGHT**

#### WELL-PLACED WORKING LIGHTS

Together with the power pack, our cranes have three well-placed lighting points as standard. On the outer boom are two lamps, on the crane pillar is one. There are additional lights on the engine package.



#### **VERY GOOD REACH**

#### LARGE WORK AREAS

Together with our unique twin slew and the SC cranes' range of 7.3m for SC7 and 7.6m /8.4m for SC8, large work areas are reached on both sides of the carrier.



## SH | CHAIN MOWERS



The SH model is used for clearing alongside roads, ditches and slopes.



The SH mowers are available in five different sizes with working widths from 1250mm to 2100mm.

### TW | OFFROAD MOWERS

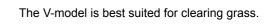


The TW model, also called "Offroad chain mower" is intended for clearing in terrain, power line corridors and other demanding environments. The fact that it is open on both sides enables sweeping work back and forth.



The TW mowers are available in two different models with a working width of 1500mm and for different hydraulic motor options

# V | FLAIL MOWERS





The V-mowers are available in two different sizes with working widths from 1300mm to 1600mm.

# With our mowers, you keep clean regardless of terrain.

Our mowers are highly efficient and designed to be reliable, easy to maneuver and safe for the environment.

Slagkraft offers three models of mowers for a wide range of applications. The V-model is a mower for easy clearing of grass, while the TW-model is intended for clearing off-road in tougher terrain, such as power line corridors or forest roads. The SH-model is our bestseller and the most common model for clearing along roads.

Both SH and TW mowers are chain cutters and provide maximum clearing efficiency. They can clear bush with great precision and power. The cutting heads are are robust, reinforced and well welded. Thanks to the design with sloping covers and shiny surfaces, no grass or shrubbery residue sticks to the tops of the mowers, which makes them easy to maintain.

The chains are available in two different sizes depending on the work, 10mm for grass and bush, 13mm for coarser clearing in terrain such as forest slopes and power line streets. It is easy to change the chain and thanks to the well-dimensioned side guards, the risk of residues from the vegetation bursting out of the mower is reduced.





A smart solution that means you do not need a power pack to run the road clearing equipment. Compact connects directly to your wheel loader's hydraulic system.

Our simplest solution that is suitable for easier road clearing is the Compact system. It is developed for use on wheel loaders together with the smallest crane SC45 and a mower with a smaller clearing width. The Compact system is for carriers that have either single-circuit or dual-circuit hydraulic systems and that meet the correct specifications for pressure and flow.

Instead of choosing one of the diesel-powered power packs W70 or W180, the Compact system's own base unit is used, which is connected directly to the wheel loader's hydraulic socket. The well-balanced base unit is complete with crane attachment and all connections. Plug in and you're ready for clearing.





# STRONG AND BIG ENOUGH

#### **EASIER CLEARING FOR PROFESSIONALS**

The Compact system is a perfect alternative when your needs are large enough to use a professional equipment but when you do not have to switch to a diesel-powered power pack with larger cranes and mowers.



# COMPLETE SOLUTION

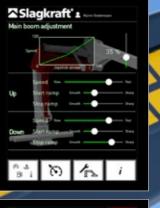
#### SIMPLE AND EFFICIENT

The base unit of the Compact system is built to be well-balanced and lightweight. The unit has all the connections needed. Compact is delivered complete with a control system.











#### Proportional control system **Working lights**

The W180 power pack have several lighting points in the front as standard, while the G180 has lighting on the side. This makes the surroundings more visible and the work safer. The lighting is also supplemented with lamps on the crane that illuminate the entire work.

Our products are an important part of the driver's workplace. Therefore, we take great account of ergonomics and safety in our development work.

We know how important the work environment is for the machine operator. The work shifts are often long and the concentration needs to be constantly at the top. The machine operator always needs to have a good overview of the surroundings, full control over edges, signs, railings and posts at the same time as the road clearing equipment is to be controlled and the vehicle driven. That is why we attach great importance to developing and refining our products so that they are well-balanced, reliable and easy to maneuver.

#### **STEERING**

The machine's crane and mower are controlled proportionally with a modern and ergonomic joystick. This makes it easier for the driver to hold one hand on the steering wheel and maneuver the machine with the other. Next to the display both start lock and emergency stop are mounted. For increased safety, there are door microswitches for the cab that stop the operation of the road clearing equipment if the door is accidentally opened.

#### MONITORING AND OPTIONS

The easy-to-understand color touch screen monitors engine and hydraulic functions. For the W70 engine package, the driver on this screen can make individual choices to adjust crane speed, engine speed and much more. The location of the display is flexible. The display can be mounted in any place in the cab

"

In the design work, we always strive to think from a driver's perspective.

Per Malmström | Constructor

#### Color touch screen with machine information

The ergonomic joystick is equipped

with buttons, rollers and palm rest. An

**Joystick** 

The color touch screen is available in different sizes and monitors engine and hydraulic functions. Here, if the W70 power pack is used, the driver can also adjust crane speed, engine speed and much more (For W180 / G180, the same settings are made via the joystick). For the W70 there is also a speed adjustment with overdrive mode. This means that the driver can quickly switch between two speed modes

#### Service & support The daily supervision is simple. The power

Our well-developed control system is proportional and is therefore

very compliant and accurate.

The crane and the mower are

controlled with precision with the

packs service points such as filters, oil dipstick and battery cover are assembled and easily accessible from ground level. The lubrication points of the cranes are lowered. Slagkraft is always available for support



and SC8 mean that the visibility is great through the work area. The construction height of the W70 power pack provides a visibility comparable to a bucket.

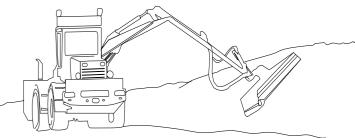
# MOWERS

#### TECHNICAL DATA SH | TW | V

MODELL		W70	W180	G180
Diesel engine	Make	CAT	CAT	CAT
	Modell	C3.6	C4.4	C4.4
	Meets exhaust requirements	EU Steg V	EU Steg V	EU Steg V
	Cylinders	4	4	4
	Stroke volume (liters)	3,62	4,4	4,4
	Injection system	Electronic	Electronic	Electronic
	Intake system	Turbo with charge air cooler	Double turbo with charge air cooler	Double turbo with charge air cooler
	Max power (kW / hp / speed)	55,4 / 75,3 / 2400	129,4 / 176 / 2200	129,4 / 176 / 2200
	Max torque (Nm / rev)	424 / 1200	750 / 1400	750 / 1400
Hyraulic system	Pump stroke	Rexroth A20VO60	Rexroth A11VO75	Rexroth A20VO95
	Max pressure (bar)	285	350	380
	Filter	10 µm	10 µm absolute	10 µm absolute
	Crane pump	Rexroth A20VO60	Sauer-Danfoss Serie 45 / 74cc	Rexroth A20VO60
	Max pressure (bar)	250	250	260
	Control valve	Parker P70	Parker L90LS	Parker L90
Electrical system	Voltage	24V DC	24V DC	24V DC
	Battery capacity	2x60Ah	2x60Ah	2x60Ah
	Generator	100A	85A	85A
Control system	Control unit	Parker IQAN	Parker IQAN	Parker IQAN
	Joystick	5-plug	5-plug	5-plug
	Warning functions	Oil pressure, engine temp, charging, engine function, exhaust purification, hydraulic oil level, hydraulic oil temp, fuel level	Oil pressure, engine temp, charging, engine function, exhaust purification, hydraulic oil level, hydraulic oil temp, fuel level	Oil pressure, engine temp, charging, engine function, exhaust purification, hydraulic oil level, hydraulic oil temp, fuel level
	Start - stopp of stroke	Proportional with ramp function	Proportional with ramp function	Proportional with ramp function
	Throttle control	Electronic	Electronic	Electronic
Weight and volume	Dry weight (kg)	1400	1700	1700
	Diesel tank (liter)	154	200	200
	DEF tank (liter)		15	15
	Hydraulic oil tank (liter)	104	160	160
	11 1 11 (11)	100	400	400

SH CHAIN MOWER	SH125-60	SH150-80	SH170-90	SH190-110	SH210-125		
Working width (mm)	1250	1500	1700	1900	210		
Weight (kg)	525	585	665	750	780		
Hydraulic engine (cc)	60	80	90	110	125		
Hydraulic oil pressure	Min 210 bar / Max 380 bar						
Hydraulic oil flow							
Min (I/min)	100	100	100	100	120		
Desirable (I/min)	120	130	130	130	145		
Max (I/min)	140	150	160	160	170		
TW OFFROAD MOWER	SH150-60-TW-90°	SH150-80-TW-90°					
Working width (mm)	1500	1500					
Weight (kg)	530	540	10				

Working width (mm)	1500	1500				
Weight (kg)	530	540				
Hydraulic engine (cc)	60	80				
Hydraulic oil pressure	Min 210 bar / Max 380 bar					
lydraulic oil flow						
Min (I/min)	80	100				
Desirable (I/min)	95	130				
Max (I/min)	110	150				
V FLAIL MOWERS	V130	V160				
Working width (mm)	1310	1598				
working width (mm)						
• ,	500	555				
Weight (kg)		555 F12-40				
Weight (kg)  Hydraulic engine (cc)  Hydraulic oil pressure	500 F12-40					
Weight (kg) Hydraulic engine (cc)	500 F12-40 Min 210 bar /	F12-40				



Because we continuously work with product development and continuous improvements, we reserve the right to data in the brochure can be adjusted.

We also reserve the right to make any typos.

# CRANES

#### TECHNICAL DATA SC45 | SC7 | SC8 | SC160

CRANE MODEL	SC45	SC7	SC8	SC160	
Reach, slewing motor centre – outermost link	6343 (SH150)	150) 7390 (SH170) 8450 (SH210)		11075 (SH210)	
Slew system	Twin slew system	Twin slew system	Twin slew system	Twin slew system	
Slew angle	210° alt 380°	370°	370°	200°	
Arm extension (telescope) (mm)	1250	1700	1250	6000	
Recommended flow (I / min)	60-80	60-110	60-120	130-200	
Working pressure (bar)	190	235	235	235	
Weight including oil (kg)	740	1340	1430	2500	



# Experience. Technology. Innovation.

Cranab's factories are located in Vindeln, surrounded by Swedish forests. There we develop and manufacture world-class cranes, grapples and clearing machines. We are driven by our genuine passion for forest and road clearing technology. We are also driven by our stubborn striving to constantly bring development forward. We are located in northern Sweden, but we operate all over the world close to the customers we develop products for. We listen to what they want and add over 60 years of experience and solid technological know-how to develop innovative products.

Experience, technological know-how and a constant desire to improve. It's a little ingenious combination if you ask us.

Cranab Slagkraft is part of the Fassi-owned group Cranab Group, which also consists of Vimek. The companies are today world leaders in their respective areas. The common success factors are the development, manufacture and marketing of the best technical solutions for modern work in forestry and road clearing.

