

Specifications		DraCom						
Product name								
Model		PTO-1500N	KDC-1300B	KDC-1300	KDC-1100B	KDC-1100	KDC-800B	KDC-800
Grinding device	Maximum grinding capacity (mm) ※1	φ150	φ130		φ120		φ110	
	Processing capacity (kg/h) ※2	1,100	800	800	600	900	500	700
	Grinding method	Chipper blade						
	Supply method	Electronic control feed roller ※PTO-1500N requires a DC12V2ZA connection. ※The KDC-1300, KDC-1300B, KSC-1300 and KSC-1300B models have an auto-quick reverse function.						
Movement function	Chip discharge method	Centrifugal release type		Air conveying type	Centrifugal release type	Air conveying type	Centrifugal release type	Air conveying type
	Safety measures	Emergency stop button						
	Traveling method	-		Self-propelling crawler type				
	Turning method	-		Side clutch type				
Dimensions	Safety measures	Traveling crush prevention						
	Travelling speed (Km/h)	Forward speed 1 (1.7)/Forward speed 2 (3.9)/Reverse speed 1 (1.8)						
	Length (mm)	1,700	1,790	1,540	1,790	1,540	1,785	1,300
	Width (mm)	900	770					780
Engine	Height (mm)	1,100	1,200	1,140	1,200	1,140	1,100	
	Weight (kg)	285	410	370	375	340	300	280
	Type	Air-cooled 4 cycle engine						
	Maximum output	Standard 3P mounted engine 14.7~22kw (19.7~29.5HP)		9.5kw (12.7HP)		7.3kw (9.8HP)		5.8kw (7.8HP)
Fuel	Fuel	1200rpm (PTO rpm)		Unleaded gasoline				
	Starting method			Recoil starter + cell motor				Recoil starter

Product name		CHIPSTAR				SCUT			Other		
Model		PTO-1500H	KSC-1300B	KSC-1300	PTO-7KR	HNK-62	HNP-62	HNT-62	KMN-1	SC-1K	
Grinding device	Maximum grinding capacity (mm)	φ150		φ130	φ85	Softnessφ60 / Hardnessφ45		φ40	—	—	
	Processing capacity (kg/h)	1,100	800	800	500	300~500		200	—	—	
	Grinding method	Free swing hammer				Free swing hammer + blade			Free swing hammer		
	Supply method	Electronic control feed roller	①PTO-1500H requires DC12V2A connection		Strong chain drive	Automatic speed control type feed			Automatic speed control type feed	Fixed amount rake-in	
Movement function	Chip discharge method	Centrifugal release type	Free swing hammer		—	Air conveying type			—	—	
	Safety measures	Emergency stop button			—	Emergency stop button			—	—	
	Traveling method	—	Self-propelling crawler type		—	Self-propelling crawler type	Hand push type	Mounted type	Hand push type	Hand push type	
	Turning method	—	Side clutch type		—	Side clutch type	—		—	—	
Dimensions	Safety measures	—	Traveling crush prevention		—	Traveling crush prevention		—	—	—	
	Travelling speed (Km/h)	—	Drive speed 1 (0.7)/Drive speed 2 (3.9)/Reverse speed 1 (1.8)		—	Drive speed 1 (0.8)/Drive speed 2 (3.9)/Reverse speed 1 (1.8)		—	—	—	
	Length (mm)	1,700	1,790	1,540	950	950	1,200	820	1,150	1,200	
	Width (mm)	900		770	980	725	715	930	596	675	
Engine	Height (mm)	1,100	1,200	1,140	1,050	950	800	640	920	1,070	
	Weight (kg)	285	410	370	185	185	110	100	65	91	
	Type	Standard 3P mounted engine 14.7~22kw (19.7~29.5HP)		Air-cooled 4 cycle engine 9.5kw (12.7HP)		Standard 3P mounted engine 11.2~22kw (15~29.5HP)		Air-cooled 4 cycle engine 4.6kw (6.2HP)		Air-cooled 4 cycle engine 3.1kw (5.6HP) 4.6kw (6.2HP)	
	Maximum output										
Fuel	Fuel	1200rpm (PTOrpm)		Unleaded gasoline		850~1200rpm (PTOrpm)		Unleaded gasoline		Unleaded gasoline	
	Starting method	Recoil starter + cell motor		Recoil starter		Recoil starter		Recoil starter		Recoil starter	

※1 Materials may not grind depending on the type and/or conditions of the materials as well as the condition of the blade.
※2 Grinding capacity differs depending on the type and/or conditions of the materials as well as the condition of the blade.

KARUI

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PUMP

HIGH PRESSUR PUMPS with Check Valve (Canassuten Pumps)

SS-250

- Inlet/outlet: 25mm
- Standard RPM: 3,000rpm
- Discharge amount: 130L/min
- Lifting height: 50m
- Necessary power: 1.9kw (2.5HP)
- Weight: 5kg
- Dimensions: L246×W152×H238mm
- Pulley size: 2A1

SS-450

- Inlet/outlet: 40mm
- Standard RPM: 4,200rpm
- Discharge amount: 340L/min
- Lifting height: 54m
- Necessary power: 3.9kw (5.2HP)
- Weight: 13kg
- Dimensions: L355×W222×H355mm
- Pulley size: 3A2

SS-500

- Inlet/outlet: 50mm
- Standard RPM: 3,800rpm
- Discharge amount: 550L/min
- Lifting height: 48m
- Necessary power: 3.9kw (5.2HP)
- Weight: 13kg
- Dimensions: L350×W222×H368mm
- Pulley size: 3B2

SS-551

- Inlet/outlet: 50mm
- Standard RPM: 3,600rpm
- Discharge amount: 560L/min
- Lifting height: 50m
- Necessary power: 4.35kw (5.8HP)
- Weight: 18.5kg
- Dimensions: L375×W245×H380mm
- Pulley size: 3B2

SS-651

- Inlet/outlet: 65mm
- Standard RPM: 4,500rpm
- Discharge amount: 1,130L/min
- Lifting height: 68m
- Necessary power: 9.75kw (13.0HP)
- Weight: 29kg
- Dimensions: L462×W300×H510mm
- Pulley size: 4B3

KMH-40

- Inlet/outlet: 40mm
- Standard RPM: 4,500rpm
- Discharge amount: 350L/min
- Lifting height: 120m
- Necessary power: 9kw (12.0HP)
- Weight: 17kg
- Dimensions: L392×W216×H345mm
- Pulley size: 4B3 beta

HIGH PRESSUR PUMPS (Canal Pumps)

SS-25

- Inlet/outlet: 25mm
- Standard RPM: 5,200rpm
- Discharge amount: 140L/min
- Lifting height: 54m
- Necessary power: 2.2kw (3.0HP)
- Weight: 6.5kg
- Dimensions: L310×W162×H295mm
- Pulley size: 2.5A2

SS-40

- Inlet/outlet: 40mm
- Standard RPM: 4,200rpm
- Discharge amount: 410L/min
- Lifting height: 54m
- Necessary power: 3.75kw (5.0HP)
- Weight: 12kg
- Dimensions: L355×W220×H390mm
- Pulley size: 3A2

SS-50

- Inlet/outlet: 50mm
- Standard RPM: 3,800rpm
- Discharge amount: 590L/min
- Lifting height: 48m
- Necessary power: 4.35kw (5.8HP)
- Weight: 16kg
- Dimensions: L386×W257×H410mm
- Pulley size: 3B2

LOW PRESSUR PUMPS

HIGH PRESSUR PUMPS

KL-65H

- Inlet/outlet: 65mm
- Standard RPM: 3,000rpm
- Discharge amount: 780L/min
- Lifting height: 38m
- Necessary power: 3.7kw (5.0HP)
- Weight: 28kg
- Dimensions: L367×W282×H366mm
- Pulley size: 3B2

KL-80H

- Inlet/outlet: 80mm
- Standard RPM: 2,600rpm
- Discharge amount: 860L/min
- Lifting height: 29m
- Necessary power: 3.7kw (5.0HP)
- Weight: 29kg
- Dimensions: L370×W282×H366mm
- Pulley size: 3B2

KLO-651

- Inlet/outlet: 65mm
- Standard RPM: 4,000rpm
- Discharge amount: 1,050L/min
- Lifting height: 68m
- Necessary power: 9.75kw (13.0HP)
- Weight: 28kg
- Dimensions: L388×W282×H366mm
- Pulley size: 3.5B2 beta

KLO-801

- Inlet/outlet: 80mm
- Standard RPM: 4,000rpm
- Discharge amount: 1,330L/min
- Lifting height: 68m
- Necessary power: 12kw (16.0HP)
- Weight: 29kg
- Dimensions: L391×W282×H366mm
- Pulley size: 3.5B2 beta

HIGH PRESSUR ENGINE PUMPS

SSE-450V

- Inlet/outlet: 40mm
- Engine: 4.5kw (6HP)
- Lifting height: 50m
- Discharge amount: 360L/min
- Weight: 35kg
- Dimensions: L595×W375×H527mm

SSE-551V

- Inlet/outlet: 50mm
- Engine: 4.5kw (6HP)
- Lifting height: 50m
- Discharge amount: 360L/min
- Weight: 35kg
- Dimensions: L595×W375×H527mm

SSE-650V

- Inlet/outlet: 65mm
- Engine: 6kw (8HP)
- Lifting height: 60m
- Discharge amount: 900L/min
- Weight: 52kg
- Dimensions: L595×W375×H527mm

SSE-800V

- Inlet/outlet: 80mm
- Engine: 6kw (8HP)
- Lifting height: 60m
- Discharge amount: 900L/min
- Weight: 54kg
- Dimensions: L595×W375×H527mm

KARUI COMPANY HISTORY

In 1975, KARUI was the first in Japan to create a wood grinding machine.
KARUI was established in 1916 and has been trusted as a good partner to Japanese farmers since.
KARUI is putting forth more efforts in the future to provide services for all of its customers.

- 1860s～ 1910s Shouhei Takahashi (高橋尚平) ran a gunsmith on Iyomishima Island in Aichi Prefecture.
- 1916 The Takahashi Factory was established and distribution of agricultural equipment starts.
- 1918 The air-cooled oil engine was completed and distribution started.
- 1921 Our engine was exhibited at the 1st Agricultural Oil Engine Comparison Testing held by the Ministry of Agriculture and Commerce and was selected at the top spot. This was named the KARUI (meaning light in Japanese) oil engine because it was the lightest engine in Japan and overseas.
- 1925 The KARUI oil engine was selected at the top spot in the 1st Agricultural Oil Engine Comparative Judging held by the Ministry of Agriculture and Forestry
- 1930 The KARUI oil engine was selected at the top spot in the 2nd Agricultural Oil Engine Comparative Judging held by the Ministry of Agriculture and Forestry and became a recommend machine of the Ministry of Agriculture and Forestry.
- 1939 Operations were moved from Iyomishima Island in Aichi Prefecture to Yamagata Prefecture due to Yamagata Prefecture business attracting laws and Yamagata Engine was established. This was the first company established in Yamagata using Yamagata Prefecture business attracting laws.
- 1940 The establishment of Tohoku promotion laws led to mergers with Sakata Agricultural Machinery and Akita Agricultural Machinery. The trade name was changed to Tohoku Shinko Agricultural Machinery and the company became a statutory company under the Tohoku Industrial Promotion Group.
- 1941 The KARUI oil engine was selected at the top spot in the 3rd Agricultural Oil Engine Comparative Judging held by the Ministry of Agriculture and Forestry
- 1943 Merger with the Sakaku Spraying Machine Factory.
- 1944 The trade name was changed to Tohoku Zoki and it became a factory managed by the Naval Ship Head Office of the Ministry of Military and Food Affairs.
- 1946 The company received the designation of a special accounting company after WWII and started planning.
- 1947 Our engine was selected at the top spot in the Industrial Internal Combustion Engine Comparison Judging at the machine testing facility of the Ministry of International Trade and Industry.
- 1949 Our engine was selected at the top spot in the Industrial Internal Combustion Engine Comparison Judging held by the machine testing facility of the Ministry of International Trade and Industry.
- 1960 The trade name was changed to KARUI Kogyo.
- 1964 The canal pump was developed.
- 1965 The canal pump passed the liquid pump division of government inspections.
- 1967 The Ministry of International Trade and Industry decided to award subsidization of costs for technological improvements in SMEs for self-priming pump research.
- 1974 Total sales of canal pumps reached 300,000 units.
- 1975 The first wood grinding machine in Japan was developed.
- 1976 The factory was moved to a newly built factory in the Seibu Industrial Park of Yamagata City.
- 1977 The Ministry of International Trade and Industry decided to award subsidization of costs for technological improvements in SMEs for hydraulic cutting scissors research.
- 1978 Distribution of the wood grinding machine “KARUI CHIPSTAR” started.
- 1981 The shell grinding machine “Shell Crusher” is developed and distribution started.
- 1990 The trade name was changed to KARUI.
- 1991 The garbage grinding machine “Recycle Crusher” is developed and distribution started.
- 1997 Distribution of the large grinding machine “Green Shredder” started.
- 2000 Distribution of the small grinding machine “Mini Shredder” started.
- 2002 Distribution of the new chipper “SCUT (2 types)” started.
- 2005 Distribution of the new 13ps chipper “DraCom (2 types)” started.
- 2006 Distribution of the new 10ps chipper “Acute (2 types)” started.
- 2008 Distribution of the chipper “NEW SCUT (3 types)” and the new 13sp chipper “DraCom (2 types)” started.
- 2009 Distribution of the first chipper with a blower in its class “MiniDora” started.
- 2010 Distribution of the new 8sp chipper “DraCom (2 types)” and the new 10sp chipper “DraCom (2 types)” started.
- 2012 Distribution of the DraCom 10sp (2 types), 13sp (2 types) and the CHIPSTAR 13sp (2 types) started.
- 2013 Distribution of the tractor PTO type DraCom and CHIPSTAR started.
- 2014 Distribution of the DraCom 8sp (2 types) started.

KARUI It has been 40 years since KARUI created the first wood grinding machine in Japan. Karui Grinders not only reduce the difficult work of disposing of branches, but also create the chips to be used as fertilizer.

Grinding machines and pumps

KARUI

General Catalogue



Please visit our website and look at the videos of our machines.

<http://funsaiiki.com> YouTube

DraCom

The DraCom evenly grinds various kinds of trees including fruit trees and garden trees as well as bamboo.

Easy parts replacement

Simple maintenance

KDC-1100F
Blade type (with blower)
Self-propelling
Maximum grinding capacity: 600 kg/h
Maximum output: 7.3 kw
Maximum grinding diameter: 120mm

KDC-1300F
Blade type (with blower)
Self-propelling
Maximum grinding capacity: 800 kg/h
Maximum output: 9.5 kw
Maximum grinding diameter: 130mm

KDC-1100
Blade type (without blower)
Self-propelling
Maximum grinding capacity: 900 kg/h
Maximum output: 7.3 kw
Maximum grinding diameter: 120mm

KDC-1300
Blade type (without blower)
Self-propelling
Maximum grinding capacity: 1,100 kg/h
Maximum output: 9.5 kw
Maximum grinding diameter: 130mm

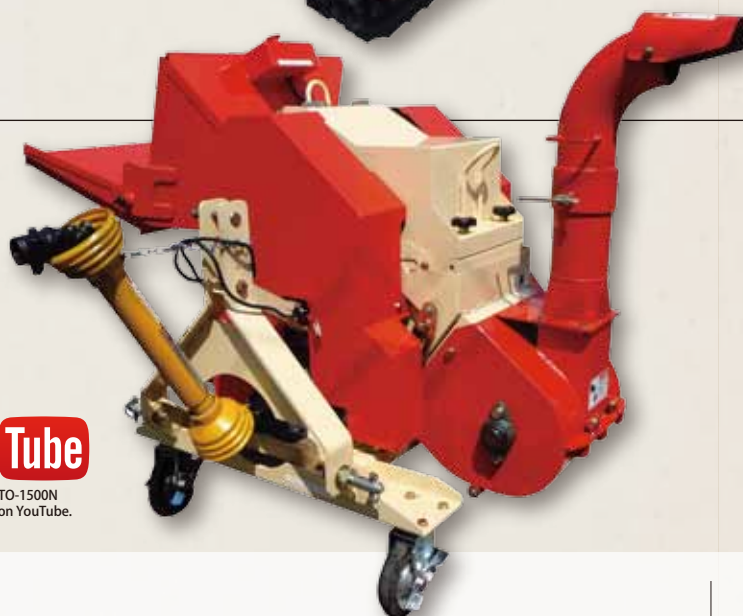
3 point link and mount type connecting to Tractor.

Micro Computer and Electronic controlled Feed Roller.

The Work Load (Engine Load) is instantly detected and the Feed Roller is automatically controlled to achieve reasonable performance.

PTO-1500N
Blade type (with blower)
Tractor PTO type
Maximum grinding capacity: 1,100 kg/h
Maximum output: 14.7-22 kw
Maximum grinding diameter: 150mm

YouTube
See the DraCom in action on YouTube.



YouTube
See the PTO-1500N in action on YouTube.

CHIPSTAR

Able to grind materials containing nails and screws such as old wooden Pallets, Frames and Waste.

KSC-1300B
Hammer type (with blower)
Self-propelling type
Maximum grinding capacity: 450 kg/h
Maximum output: 9.5 kw
Maximum grinding diameter: 130mm

Grind all sorts of materials

The CHIPSTAR can take pruned branches and old pallets along with old wooden crates with nails and screws still in them.



YouTube
See the CHIPSTAR in action on YouTube.

KSC-1300
Hammer type (without blower)
Self-propelling type
Maximum grinding capacity: 600 kg/h
Maximum output: 9.5 kw
Maximum grinding diameter: 130mm



Tough swing hammer which is strong against foreign substances
PTO-1500H
Hammer type (with blower)
Tractor PTO type
Maximum grinding capacity: 1,100 kg/h
Maximum output: 14.7-22 kw
Maximum grinding diameter: 150mm

YouTube
See the PTO-1500H in action on YouTube.

Optional cyclone
This cyclone is optional on the PTO-1500N and PTO-1500H models.



*The cyclone can be mounted as an option.

DraCom PTO1500N and CHIPSTAR PTO1500

Features

The smallest size tractor link type in the agricultural machinery industry at a reasonable price

These wood grinding machines are small sized for tractor link types. We offer these at the most reasonable prices among similar types. The hammer type has high durability and the blade type lowers running costs with its re-grindable blades.

A grinding diameter of 15cm which is the largest among KARUI wood grinding machines

Grind materials fast and evenly at full capacity using the power of a tractor. These machines have the largest grinding diameter and fastest grinding speed in KARUI history.

*Check our home page to see videos of our grinding machines.



Adjust the chip size
Chip Size can be adjusted by replacing the One-Touch Screen at the Vent Hole.

Simple maintenance
The upper Cover and Blower can be opened without using tools due to excellent maintainability.
*Tools are necessary to open the blower on the KDC-800/800B models.

Flexible Blower Angle
You can change the blower angle freely. The direction of the Vent Hole can be changed with one hand.
*Only for the types with blowers

Equipment Features

DraCom × CHIPSTAR

KDC-800 KDC-800B KDC-1100B KDC-1100 PTO-1500N KDC-1300B KDC-1300

① Chipper blade method only for the DraCom

This method discharges fine chips. Both sides of the blade can be used and grinded enabling re-usage.

③ Electronic control feed roller

The rotor load is instantly detected automatically controlling the feed roller so you can carry out grinding with ease.

⑥ Normal operation and reverse operation switch

It is possible to easily reverse the Feed Roller with this switch when the machine cannot handle the feed during grinding.

⑨ 1-point sling hook

The machine is designed with balance in mind for convenience when lifting with a crane, etc.

⑫ Open-close type shoot

Carry out lubrication, engine maintenance and fixed blade exchange with ease.

⑬ Standard screen

The screen can be removed and attached without any tools using a one-touch method. This allows for an even discharge of chips.

Standard

④ Auto-quick reverse function

The rotor load (engine load) is detected temporarily reversing the feed roller so work efficiency is improved.

⑦ Changeable blower function

The tip can be adjusted at any angle freely so the discharge direction can be changed with ease.

⑩ Substitutable claws on the feed roller

You can change to jagged claws or flat claws depending on the grinding materials and work conditions.

⑬ Emergency stop button

Push the emergency stop button in an emergency to stop the feed roller and engine for preventing accidents.

⑭ Optional: Fine screen

This screen is for grinding materials in a finer manner. This is suitable for grinding bamboo into powder.

only for the DraCom

Optional

② Swing hammer method only for the CHIPSTAR

This method includes an original special type of steel which is tough against foreign materials. The amount of abrasion is low and both sides can be used for superior value.

⑤ Switching between normal and thin branch modes

When feeding a small amount of materials such as thin branches with a diameter of 3cm or less or grass, switch to the "Thin Branch" mode to improve fuel efficiency and reduce the noise level.

⑧ Release function

When the machine stops with the blade/hammer jammed, insert the wrench which comes with the machines and rotate it for easy release.

⑪ Maintenance of rotor/blower

Areas of the machine can be opened without tools for reasons such as blade inspection, blade exchange, screen exchange or screen cleaning making maintenance easy.

⑭ Reverse crush prevention function

When a certain amount of force is applied when reversing, the clutch turns off and stops to prevent accidents involving crushing objects which are in the path of the machine.

⑰ Optional: Cyclone

The tip is collected in the bag directly.

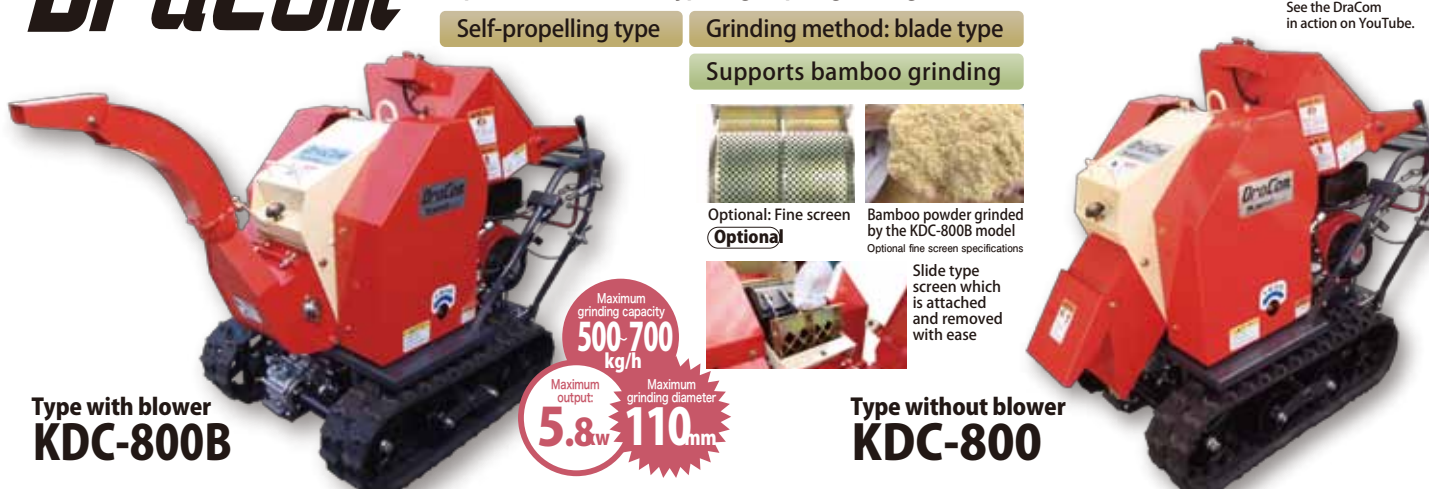
Supported

KDC-1300B KDC-1100B PTO-1500N

DraCom

First small type 8HP of its class which uses a complete blower as a standard
Unprecedented small-type high spec grinding machine

YouTube
See the DraCom in action on YouTube.



Type with blower
KDC-800B

Self-propelling type
Grinding method: blade type
Supports bamboo grinding



Optional: Fine screen
Optional: Fine screen specifications

Slide type screen which is attached and removed with ease

Maximum grinding capacity: 500-700 kg/h
Maximum output: 5.8 kw
Maximum grinding diameter: 110mm

Type without blower
KDC-800

SCUT Small grinding machine 3 types for you specific needs

Self propelling type
Maximum grinding capacity: 300-500 kg/h
Maximum output: 4.6 kw
Maximum grinding diameter: 60mm
Blade & Hammer type
HNK-62



Blade & Hammer type
HNP-62
Hand push type

Blade & Hammer type
HNT-62
Mounted type

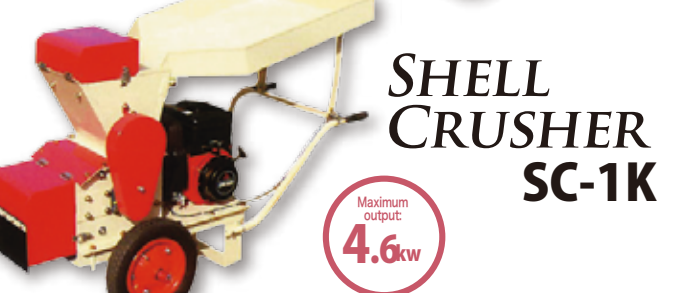
CHIPSTAR 3-point tractor link type PTO-7KR

Maximum grinding capacity: 500 kg/h
Maximum output: 11.2 kw
Maximum grinding diameter: 85mm



MINI SHREDDER KMN-1

Maximum grinding capacity: 200 g/h
Maximum output: 3.1 kw
Maximum grinding diameter: 40mm



SHELL CRUSHER SC-1K

Maximum output: 4.6 kw



DraCom × CHIPSTAR Features

Grinding Capacity
Standard mounted blower and screen
More evenly sized chips

*Materials may not grind depending on the type and/or conditions of the branches as well as the condition of the blade.
*The picture shows the CHIPSTAR.

Traveling capacity
These machines rotate with ease with a simple lever type side clutch. They are equipped with complete traveling capacity with a multiple speed transmission (2 forward speeds and 1 reverse speed).

*The picture shows the CHIPSTAR KSC-1300B.

The Set and Removal of One-Touch Screen requires no tools.