

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

General Catalogue





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

https://funsaiki.com





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

Easy parts replacement Simple maintenance

KDC-1302B



CHPSTAR

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

You Tube

KSC-1302B



Grind all sorts of materials

The CHIPSTAR can take pruned branches and old palates along

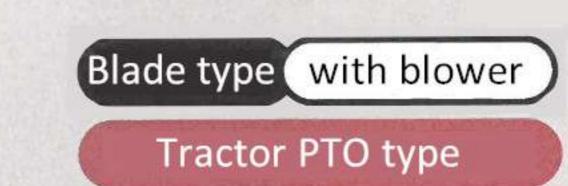


KSC-1302



3 point link and mount type connecting to Tractor

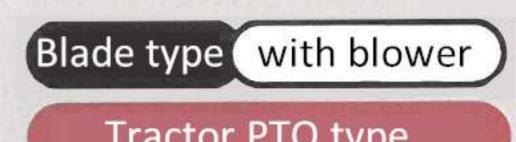
PT0-1700N







PT0-1200N





See the PTO-1200N in action on You Tube.



KDC-802

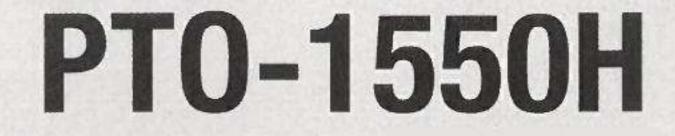
KDC-1102



KDC-1302

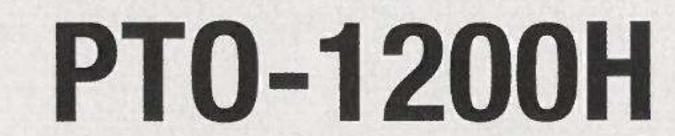


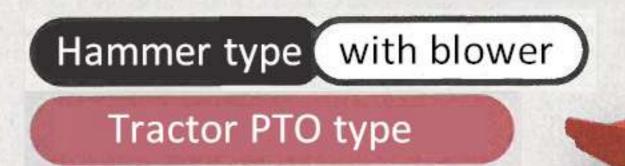




Tractor PTO type











Equipment Features

Brakom X CHIPSTAR

KDC-1102

KDC-1302B PTO-1700N PTO-1200N

KSC-1302B PT0-1550H

1 Chipper blade method

Only for the DraCom

This method discharges fine chips. Both

2 Swing hammer method

Only for the CHIPSTAR



sides of the blade can be used and grinded enabling re-usage.

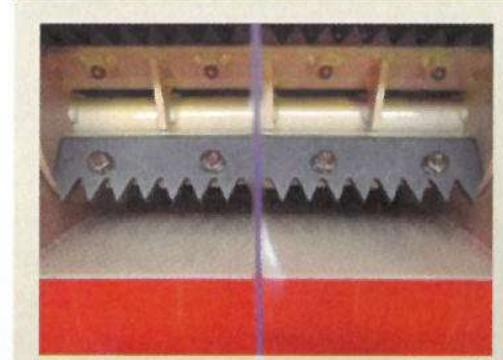
This method includes an original special type of steel which is tough against foreign materials. The amount of abrasion is low and both sides can be used for superior value.

3 Electronic control feed roller



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

Auto-quick reverse function



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

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.

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.

7 Changeable blower function



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

8 Release function



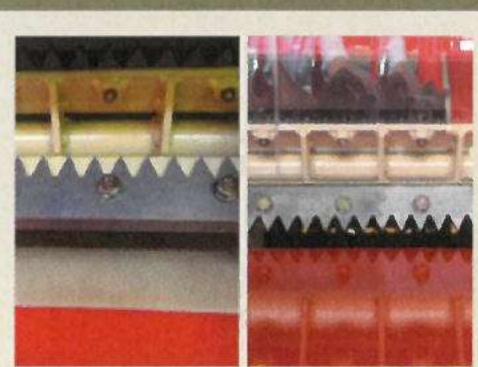
When the machine stops with the blade/hammer jammed, insert the wrench which comes with the machines and rotate it for easy release.

91-point sling hock



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

10 Substitutable claws on the feed roller



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

(Patent pending)

DLower discharge



For models with a blower, use it when it is not necessary to project the tip to a distant place, or when the blower does not fly well and becomes clogged depending on the material and condition of the crushed material.

A tool is required for the lower discharge installation.

12 Open-close type shoot



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

BEmergency stop button



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

(14) Reverse crush prevention function



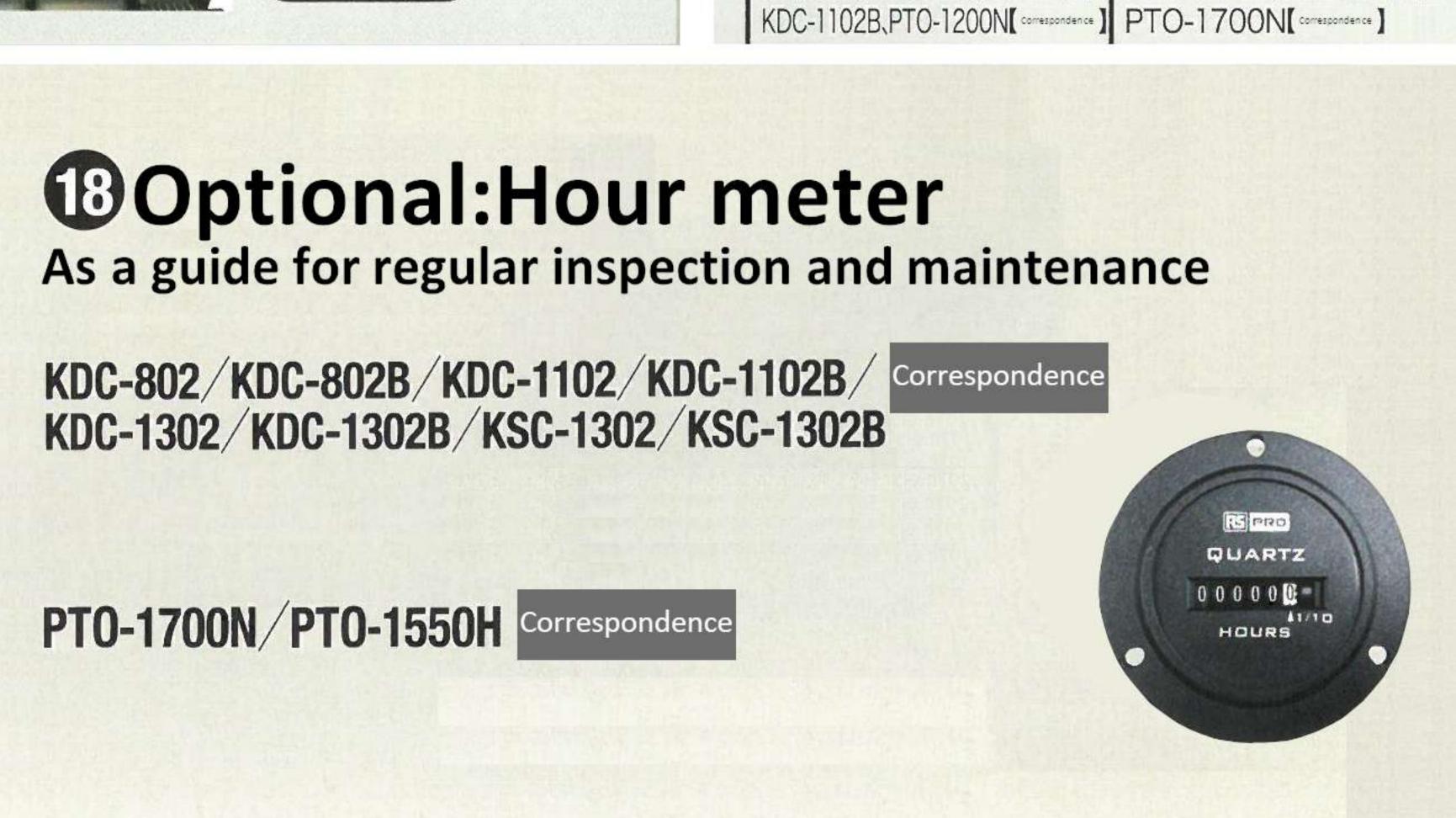
When a certain amount of force is applied when reversing, the clutch turns off and stops to prevent accidents involving crushing objects which are in the path of the machine.

Sp	Specifications/ Compliance Table Standard Optional		Grinding devices					Effciency devices				Safety devices Screen		Screen	optional devices				
Co			Swing hammer method	Electronic Control feed roller	Auto-quick 1 reverse function	Switching between normal and thin branch modes	Normal operation and reverse operation switch	Changeable blower function	Release	1-point Sling hook	Substitutable Substitutable Claws on rhe feed roller	Dower	Open-close type shoot	Emergency stop button	Reverse crush Prevention function	Standard Screen	Optional: Fine screen	Optional: Cyclone	Optional: Hour meter
	KDC-802						•		•	•	•			•		•			Δ
	KDC-802B						•	•	•	•	•	•							
D	KDC-1102				•		•			•	•		•	•					
raC	KDC-1102B						•		0			•							
10	KDC-1302				•	•	•		•										
3	KDC-1302B			•	0		•		0			0	•						
	PTO-1700N	•			•		•		•	•	•	•		•					
	PTO-1200N								•							•			
오	KSC-1302				•		•		•					•		•			Δ
 P	KSC-1302B		•				•	•					•	•	•	•			
CHIPSTAR	PTO-1550H		•						•	•		0				•			
A	PTO-1200H		•					•		•			•						















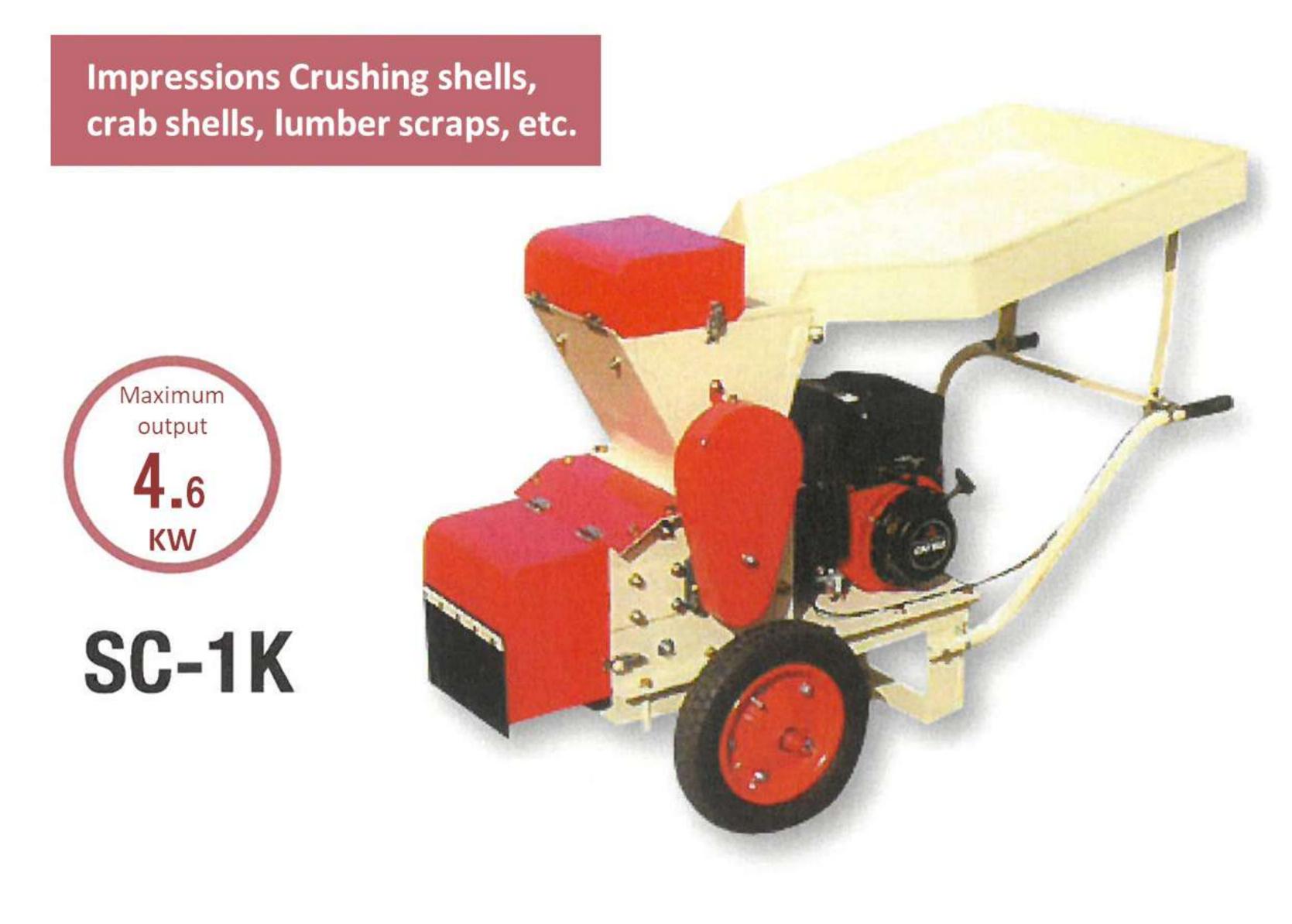
MINI SHREDDER

Full-scale shredder of garden trees and twigs



SHELL CRUSHER

Secondary processing / special crusher



HIGH PRESSUR PUMPS with Check Valve (Canassuten Pumps)



SS-250

- Inlet/outlet:25mm
- Standard RPM:5,000rpm
- 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 \times 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



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 \times H380mm
- Pulley size:3B2



SS-651

- Inlet/outlet:65mm
- Standard RPM:3,800rpm Discharge amount:820L/min
- Lifting height:68m
- Necessary power:9.75kw(13.0HP)
- Weight:29kg
- ●Dimensions:L462×W300 ×H510mm
- Pulley size:4B3

×H368mm Pulley size:3B2 SUPER HIGH PRESSUR PUMPS



- Lifting height:120m Necessary power:9kw(12.0HP)
- Weight:17kg
- Dimensions:L392×W216 ×H345mm
- Pulley size:4B3 beta

HIGH PRESSUR PUMPS (Canal Pumps)



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



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

HIGH PRESSUR PUMPS



KL0-651

- Inlet/outlet:65mm
- Standard RPM:4,000rpm
- Discharge amount:1050L/min
- Lifting height:68m
- Necessary power: 9.75kw (13.0HP)
- Weight:28kg Dimensions:L388×W282
- ×H366mm Pulley size:3.5B2 beta

KL0-801

- Inlet/outlet:80mm Standard RPM:4,000rpm
- Discharge amount:1330L/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:560L/min ■Weight:35kg ● Dimensions: L595×W375×H527mm



SSE-650V

- ●Inlet/outlet:65mm ●Engine:6kw(8HP)
- Lifting height:60m
 - Discharge amount:780L/min Weight:52kg
- Dimensions:L625 x W500 x H532mm



SSE-800V

- ●Inlet/outlet:80mm ●Engine:6kw(8HP)
- Lifting height:60m
- Discharge amount:900L/min Weight:54kg Dimensions:L625 x W500 x H532mm

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.

1860s~	Shouhei Takahashi (高橋尚平) ran a gunsmith on Iyomishima Island in Aichi Prefecture.
1910s	The Telroheahi Eastern was established and distribution of estimal equipment starts
1916	The Takahashi Factory was established and distribution of agricultural equipment starts. The single-laded sile angine was completed and distribution started.
1918	The air-cooled oil engine was completed and distribution started. Our engine was exhibited at the let Agricultural Oil Engine Companies Testing hold by the Ministry of Agriculture
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.
0010	Distribution of the Dra Com 10 on (9 toward) 12 on (9 toward) and the CHIDCTAD 12 on (9 toward) stantad

2019 Distribution of the tractor PTO type DraCom and CHIPSTAR started.
 2020 Distribution of the DraCom 13sp (2 types) and the CHIPSTAR 13sp (2 types) started.

Distribution of the tractor PTO type DraCom and CHIPSTAR started.

Distribution of the DraCom 8sp (2 types) started.

Celebrating 100 years since its founding.

2012

2013

2014

2016

Distribution of the DraCom 10sp (2 types), 13sp (2 types) and the CHIPSTAR 13sp (2 types) started.

Pruned branches can be grinded and used as organic

fertilizer!

Made into chips with Pruned the grinding branches machine

Harvested Piling and Cycle and shipped fermenting out chips

> Used as fertilizers in areas such as fruit trees

Composting over a set period

Main uses for chips Smaller after grinding!

Organic fertilizer Soil conditioner Dairy materials

Before grinding

- Mulch
- Weed prevention
- Paving materials
- Papermaking stock
- Slope vegetation material
- Carbonization deodorant

• Humidity control for carbonization



Specifications

Product name		DraCom									
	Model	KDC-1302B	KDC-1302	KDC-1102B	KDC-1102	KDC-802B	KDC-802	PTO-1700N	PTO-1200N		
	Maximum grinding capacity(mm)%1	ф1	φ140		25	ф1	20	ф170	ф120		
9	Processing capacity(kg/h) **2	850	1,200	580	800	500	700	1,100	700		
Grinding	Grinding method										
ng dev	Supply method		Ele		Automatic speed control type feed						
rice	Chip discharge method										
	Safety measures			Emergency	stop button						
Mo	Traveling method			Self-propelling	g crawler type						
veme	Turning method			Side clu	tch type	-					
nt fun	Safety measures			Traveling crus	sh prevention						
iction	Traveling speed(km/h)	Forward speed 1 (2.1)/ /Reverse speed 1 (2.1)		Forwar	d speed 1 (1.7)/Forward	eed 1 (1.8)					
	Length(mm)	1,800	1,529	1,795	1,308	1,795	1,308	1,727	1,581		
Dime	Width(mm)	780							809		
nsion	Height(mm)	1,337	1,145	1,089				1,342	1,197		
S	Weight(kg)	400	370	326	306	315	295	320	217		
	Туре			Air-cooled 4	cycle engine						
En	Maximum output	9.5kw((13HP)	7.3kw(10HP)	(8HP)	14.7~22kw(20~30нр)	9.6~14.7kw(13~20нь)			
ngine	Fuel			Unleaded	gasoline		1200rpm	1000rpm			
	Starting method		Recoil starte	er + cell motor		Recoil	starter	(PTO rpm)	(PTO rpm)		

	Product name		CHIP	STAR			SCUT	MINI SHREDDER	SHELL CRUSHER	
	Model	KSC-1302B	KSC-1302	PTO-1550H	PTO-1200H	HNK-600	HNP-62	HNT-62	KMN-1	SC-1K
	Maximum grinding capacity(mm)%1	ф1	35	φ155	ф120	ф70	SoftnessΦ60/	Hardness Ф45	φ40	
6	Processing capacity(kg/h) **2	470	750	1,100	700		300~500		200	
rinding	Grinding method		Free swin	g hammer		Free sv	Free swing hammer + blade			g hammer
	Supply method	Electronic contr	OI TEED POLIER	TO-1550H requires DC12V2A connection.		Automatic	speed contro			
rice	Chip discharge method			O'STE	r conveying ty	/pe			_	
	Safety measures	Emer	gency stop bu	itton		Emergency stop button			_	_
Mo	Traveling method	Self-propelling	g crawler type	_		Self-propelling crawler type	Hand push type Mounted type		Hand p	ush type
veme	Turning method	Side clut	tch type	_		Side clutch type				_
nt fur	Safety measures	Traveling crus	sh prevention	_		Traveling crush prevention				-
ction	Traveling speed(km/h)	Forward speed 1 (2.1), /Reverse speed 1 (2.1)	/Forward speed 2 (4.8)			Forward speed 1 (1.3) Forward speed 2 (2.6) Reverse speed 1 (1.5)				
	Length(mm)	1,800	1,529	1,727	1,581	1,160	1,200	820	1,150	1,200
Dime	Width(mm)	780		1,029	809	600	715	930	596	675
nsion	Height(mm)	1,337	1,145	1,342	1,197	970	800	640	920	1,070
S	Weight(kg)	410	380	320	217	200	110	100	65	91
	Туре	Air-cooled 4	cycle engine	_		Air-cooled 4 cycle			engine	
En	Maximum output	9.5kw	(13HP)	14.7~22kw(20~30нр)	9.6~14.7kw(13~20нь)	4.6kw (13HP) 3.1kw			3.1kw (4.2HP)	4.6kw (6.3HP)
ngine	Fuel	Unleaded	dgasoline	1200rpm	1000rpm		ine			
	Starting method	Recoil starte	r + cell motor		(PTO rpm)	Recoil starter + cell motor				

※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. The specifications, images and other items may be changed without notice for improvement purposes.



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A Caution	Safely use this machine after thoroughly reading the Instruction Manual.	2021.02