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Kinnel hagen

Straight to Benson

SEPARATORS.

*With Trucks and Stacker, but without Power or
Tumbling-Rods.*

Twenty-inch Cylinder, Apron Style only.....	\$390 00
Twenty-four-inch Cylinder.....	405 00
Twenty-eight-inch Cylinder.....	415 00
Thirty-two-inch Cylinder.....	425 00
Thirty-six-inch Cylinder.....	445 00
Forty-inch Cylinder.....	485 00

If 12-bar Cylinder is wanted, so state in order.

PARTS FURNISHED WITH BELT MACHINE:

2 Square Hole Blank Concave.	2 Socket Wrenches.
1 Concave Strap.	1 S Wrench.
5 Couplings.	4 Wood Pins for Oil Holes.
1 Cast Maul.	1 Row Concave Teeth.
1 Tooth Wrench.	2 Pcs. Sieve Rack and Latch.
1 Tooth Straightener.	2 7-16x3 inch Bolts, with Cast
1 Cold Chisel.	Washer for Band Cutter
1 Belt Punch.	Stand.
1 Belt Awl.	1 7-16x13 inch Wood Screen
1 Monkey Wrench.	for Elevator.
1 Oil Can.	1 1/2x14 1/2 inch Bolt, 2 Cast
1 Stacker Crank.	Washers.
1 Truck Wrench.	2 Bolts and Sockets for Feed
1 Clevises and Pins.	Table Legs.
1 Padlock.	Belt Guides.
2 Wood Screws for Stacker.	1 Collar for Tailing Auger.
6 Cylinder Teeth and Nuts.	

Where Flax and Timothy are grown and attachments are needed and ordered with machine, no extra charge is made.

No Tumbling-Rods or Couplings furnished with Geared Separators sold without Power.

STACKER.

Stackers, 18 ft., single or jointed, with Hoisting Rig...\$40 00
For Stackers longer than 18 ft., add for each extra foot 2 00

No deduction when less than 18 feet, which is standard length.

CLOVER ATTACHMENT.

Clover Attachment for Apron, Eclipse or Agitator,
cash.....\$25 00
Clover Attachment for Apron, Eclipse or Agitator,
time four months..... 30 00

NOTE.—In sending for clover attachment for an Agitator, don't fail to give its number, found stamped on cap over Cylinder Post. Also give number of Bars in Grate Back of Concave.

DEDUCTIONS.

Levers, Tumbling-Rods, or any other parts of Machines not wanted (except Trucks and Stacker) will be deducted at 25 per cent. less than their list price, but no discount where Whiffletrees and Neck-yokes 94 W, 88 W, or 87 W, are not wanted.

EXTRAS.

Separator Brake, complete.....	\$10 00
Canvas Cover for Separator, net cash.....	10 00
Bagging Attachment, give style and size of machine..	20 00
Campbell Bagger and Weigher..	60 00

WAGON ELEVATOR.

Our Wagon Elevator is used in connection with Bagger.

Bagger.....\$20 00

Add \$3.00 per foot for length of Elevator wanted.

We make only 8, 10, 12 and 14 ft. Elevators. Extra length will necessitate delay in shipment.

If Iron Wheels wanted with Separator, it must be so stated in order.

Main Drive Belt free with each full Steam Rig; 150 feet, 6-inch 4-ply Rubber, or same width Gandy.

Grain Register with each Separator free.

AGITATORS.

With Horse-Powers, complete.

Twenty-four-inch Cylinder Separator, with Trucks, 18-ft. Stacker, Whiffletrees, Neck-yoke and 8-horse, 4-wheel Woodbury Power.....	\$620 00
Twenty-eight-inch Cylinder Separator, with Trucks, 18-ft. Stacker, Whiffletrees, Neck-yoke and 10-horse, 4-wheel Woodbury Power.....	640 00
Thirty-two-inch Cylinder Separator, with Trucks, 18-ft. Stacker, Whiffletrees, Neck-yoke and 10-horse, 4-wheel Woodbury Power.....	650 00
With 12-horse, 4-wheel Woodbury Power ..	660 00
Thirty-six-inch Cylinder Separator, with Trucks, 18-ft. Stacker, Whiffletrees, Neck-yoke and 12-horse, 4-wheel Woodbury Power.	680 00

Parts furnished with complete Geared Machine: 1 Concave, 1 Maul, 1 Coupling, 1 Cylinder Pinion, 1 Cylinder Wrench, 1 Monkey Wrench, 2 Oil Cans, 1 Tooth Straightener, 1 Belt Punch, 1 Belt Awl, 6 Cylinder Teeth, 2 Socket Wrenches and 1 Cold Chisel.

EQUALIZERS.

If Equalizers are wanted with full Horse-power Rig, add prices to above list:

Equalizers for 10-Horse Power.....	\$15 00
Equalizers for 12-Horse Power.....	18 00

HORSE POWERS.

Four-Wheel Mounted Double Pinion Woodbury Powers.

Eight-Horse Woodbury Power, mounted on four Wheels, with Levers, Braces, Whiffletrees, Neck- yoke and 2 Tumbling-Rods.....	\$215 00
Above Power with Equalizers.....	227 00
Ten-Horse Woodbury Power, mounted on 4 Wheels, with Levers. Braces, Whiffletrees, Neck-yoke and 2 Tumbling-Rods.....	225 00
Above Power with Equalizers..	240 00
Twelve-Horse Woodbury Power, mounted on four Wheels with Levers, Braces, Whiffletrees, Neck-yoke and 2 Tumbling Rods.....	235 00
Above Power with Equalizers.....	253 00

HORSE POWERS WITH OTHER SEPARATORS.

Our Four-Wheel Woodbury Powers and Pitts Powers are speeded upwards of 100, and geared to run the Tumbling-Rods against the horses, from left to right. If ordered before leaving the shop, we can make them to reverse the motion of the Tumbling-Rods and give the required speed to any Separator made, by Agents telling us:

First.—How many revolutions of the Tumbling-Rods are necessary for once around of the Bull Wheel.

Second.—Standing on the Power facing the Separator, which way they want the Tumbling-Rods to turn—with the horses from right to left, or against the horses from left to right.

TANKS.

Tanks, mounted on Truck.....	\$60 00
Tanks, unmounted	25 00
Tank Pump.....	16 00
Hose for Pump—Manufacturers' List.	

TRUCKS.

Trucks for Separators, with Whiffletrees and Neck- yoke... ..	\$50 00
Trucks for Tread Powers, with Whiffletrees and Neck- yoke	35 00
Trucks for mounted Pitts or Woodbury Powers.....	45 00

JACKS.

Horse-Power Jacks for Climax Powers	\$25 00
Horse-Power Jacks for Woodbury Powers.....	25 00
Horse-Power Jacks for Pitts Power.....	30 00

ENGINES.

Wood and Coal Burners.

SKID.

Eight-Horse Boiler and Engine, 6½ x 12.....	\$ 875 00
Ten-Horse Boiler and Engine, 7 x 12.....	900 00
Twelve-Horse Boiler and Engine, 7½ x 12.....	1000 00
Sixteen-Horse Boiler and Engine, 8 x 12.	1100 00
Twenty-Horse Boiler and Engine, 9 x 14.....	1300 00
Twenty-five-Horse Boiler and Engine, 9½ x 14	1400 00
Thirty-Horse Boiler and Engine, 10 x 16.....	1600 00

PORTABLE.

Six-Horse Engine, Iron Wheels, 6½ x 8.....	\$ 750 00
Eight-Horse Engine, Iron Wheels, 6½ x 12.....	950 00
Ten-Horse Engine, Iron Wheels, 7 x 12.....	1000 00
Twelve-Horse Engine, Iron Wheels, 7½ x 12.....	1100 00
Sixteen-Horse Engine, Iron Wheels, 8 x 12.....	1300 00

SELF-STEERING TRACTION ENGINE.

Locomotive Boiler.

Six-Horse Engine, 6½ x 8... ..	\$ 950 00
Eight-Horse Engine, 6½ x 12.	1150 00
Ten-Horse Engine, 7 x 12.....	1200 00
Twelve-Horse Engine, 7½ x 12.....	1300 00

RETURN FLUE ENGINE FOR STRAW.

Burns also Coal or Wood.

Twelve-Horse Portable Engine, 7½ x 12.....	\$1200 00
Twelve-Horse Self-Steering Traction Engine, 7½ x 12.	1375 00
Sixteen-Horse Self-Steering Traction Engine, 8 x 12...	1600 00

All return Flue Engines are Jacketed, unless otherwise ordered. Large Drive Belt not included with either engine or separator when sold alone.

EIGHT-HORSE STEAM THRESHING RIG.

Complete.

Eight-Horse Portable Engine.....	\$950 00
Thirty-two-inch Cylinder Separator.	335 00
Trucks for Separator, Whiffletrees and Neckyoke....	50 00
Eighteen-foot Folding Stacker, with Gearing, complete.....	40 00
	\$1,375 00

TEN-HORSE STEAM THRESHING RIG.

Complete.

Ten-Horse Portable Engine.....	\$1,000 00
Thirty-six-inch Cylinder Separator.....	355 00
Trucks for Separator, Whiffletrees and Neckyoke....	50 00
Eighteen-foot Folding Stacker, with Gearing, complete	40 00
	\$1,445 00

TWELVE-HORSE STEAM THRESHING RIG.

Complete.

Twelve-Horse Portable Engine.....	\$1,100 00
Thirty-six-inch Cylinder Separator.....	355 00
Trucks for Separator, Whiffletrees and Neckyoke..	50 00
Eighteen-foot Folding Stacker, with Gearing, complete	40 00
	\$1,545 00

TWELVE-HORSE STRAW BURNING RIG.

Complete.

Twelve-Horse Return Flue Straw-Burning Portable Engine.....	\$1,200 00
Thirty six-inch Cylinder Separator.....	355 00
Trucks for Separator, Whiffletrees and Neckyoke..	50 00
Eighteen-foot Folding Stacker, with Gearing, complete.....	40 00
	\$1,645 00

TWELVE-HORSE RETURN FLUE SELF-STEERING TRACTION RIG.

Twelve-Horse, Return Flue, Self-Steering Traction	
Engine.....	\$1,375 00
Thirty-six-inch Cylinder Separator....	355 00
Trucks for Separator, Whiffletrees and Neckyoke..	50 00
Stacker	40 00
	\$1,820 00

SIXTEEN-HORSE RETURN FLUE TRACTION RIG.

Sixteen-Horse Return Flue, Self-Steering Traction	
Engine.....	\$1,600 00
Forty-inch Cylinder Separator.....	395 00
Trucks for Separator with Whiffletrees and Neckyoke	50 00
Stacker	40 00
	\$2,085 00

Traction and Portable Engines are furnished with independent Steam Pump and Injector, Steam Gauge, Pop Safety Valve, Water's Governor, Feed Water Heater, Suction and Sprinkling Hose, Steam Whistle and Brake. On all Traction and Portable Engines we use Baker's patent balanced Slide Valve, having the least possible friction or wear.

All other Engines are furnished with everything necessary to complete them for the use intended. Piping to connect stationary Engine with Boiler and Smoke Stacks for stationary Boilers furnished at usual prices.

BOILERS.

To get the price of Boilers for the use with Stationary Engines, deduct price of Stationary Engine from price of Skid Engine with Boiler; this will give price of Locomotive Boilers.

For Engines and Boilers above 30 H. P., special prices and terms will be given on application.

Corliss Automatic Engines and Tubular Boilers for mason work beds will be supplied on short notice.

SINGLE AND DOUBLE PORTABLE SAW MILLS.

Each mill complete will have 30 feet carriage, 60 feet track, 2 independent simultaneous lever-setting head blocks, wheels and axles for lumber car, belt-tightener, wrenches, mill-bar, cant-hooks, oil cans, and all belts, including 60 feet 10-inch main belt.

When not wanted we deduct \$3.00 per foot for carriage and rod; 75 cents per foot for track, and \$30.00 for main belt.

STANDARD SINGLE MILL, PLANER TOOTH SAW, WITH 500 EXTRA TEETH.

Forty-eight-inch Saw.....	\$525 00
Fifty-inch Saw	550 00
Fifty-two-inch Saw.....	575 00
Fifty-four-inch Saw.....	600 00
Fifty-six-inch Saw	625 00

STANDARD SINGLE MILL SOLID SAW.

Forty-eight-inch Saw.....	\$500 00
Fifty-inch Saw.....	510 00
Fifty-two-inch Saw.....	535 00
Fifty-four-inch Saw.	560 00
Fifty-six-inch Saw.....	585 00
For 3-inch arbor on mills with saw larger than 54-inch, add.....	25 00

DOUBLE MILLS.

For double mill with top saw attachment, add.....	\$125 00
Single Mills, without saw.....	475 00

Only left-hand mills kept in stock. Right-hand made to order. We furnish the Ohlen saw. Parties wanting another make must buy their own.

If sawyer's valve is wanted instead of governor, deduct \$20.00 from price of complete rig.

Terms of Warranty on Saws.—Each saw is warranted free from seams or flaws, and as true as saws can be made. All complaints relative to the quality are referred to the manufacturer, and our action governed by his decision.

PRICE LIST OF ENGINES AND BOILERS.

KIND AND STYLE.	H. D.	Cylinder.		Diam. of Fly Wheel.	Rev. of Fly Wheel.	Width of Tire.	Price.	REMARKS.
		Diam.	Stroke					
Traction Engines.	6	6½	8	30	250	8	\$ 950	Center Crank Locomotive Boiler.
	10	7	10	40	250	12	1,200	" " " "
	12	7	10	40	250	12	1,300	" " " "
	12	7½	10	40	258	12	1,375	" " Return Flue "
	16	8	12	48	180	16	1,600	" " " "
Portable Eng. on Wheels.	6	6½	8	30	250		\$ 750	Center Crank Locomotive Boiler.
	10	7	10	40	250		1,000	Either Center or Side Crank Locomotive Boiler
	12	7½	10	40	250		1,100	" " " "
	16	8	12	48	180		1,375	Center Crank Return Flue Boiler.
	16	8	12	48	180		1,300	" " Locomotive "
	20	9	14	50	180		1,500	Side " " "
Skid Eng. & Boiler att'chd	8	6½	12	40	250		\$ 875	Center Crank Locomotive Boiler.
	10	7	12	40	250		900	Either Center or Side Crank Locomotive Boiler
	12	7½	12	40	250		1,000	" " " "
	16	8	12	48	180		1,100	" " " "
	20	9	14	50	180		1,300	Side Crank Locomotive Boiler.
	25	9½	14	66	180		1,400	" " " "
	30	10	16	72	180		1,600	" " " "
Stationary Eng. no Boiler	10	7	12	40	250		\$ 400	Either Center or Side Crank Engine.
	12	7½	12	40	250		450	" " " "
	16	8	12	48	180		500	" " " "
	20	9	14	50	180		575	Side Crank Engine.
	25	9½	14	66	180		700	" " " "
	30	10	16	72	180		850	" " " "

TERMS OF PAYMENT ON THRESHING MACHINERY.

All Cash—Ten per cent. discount from list prices, where all cash is paid at time of delivery.

Regular Terms—One-fourth Oct. 1, 1888; one-fourth Dec. 1, 1888; one-fourth Oct. 1, 1889; one-fourth Dec. 1, 1889, with approved security and highest legal interest in State where taken.

Seven per cent. premium will be allowed where one-third or more (yet less than the whole) is paid down at purchase, said premium to be deducted from the balance due on the purchase.

A condition may be written across the face of the first two notes (provided they are made payable October and December 1, 1888), that if both notes are paid at maturity no interest shall be charged.

TERMS OF PAYMENT ON SAW MILLS.

All Cash—Ten per cent. discount from list price where all cash is paid at time of delivery.

Regular Time Terms—One-fourth cash, balance in six, twelve and eighteen months with interest and approved security.

INSTRUCTIONS TO AGENTS.

Property statements on back of notes or orders must be filled out on our blanks and signed by at least two owners of unincumbered real estate which is liable to execution, and who are known by you to be responsible.

DIRECTIONS FOR PRESERVING THE COTTON BELT.

To preserve the belt, apply a little common paint to the pulley side, whilst running (which will be carried along the whole length of the belt), to be followed shortly afterwards by a little soft oil or grease, to preserve its flexibility. If the edges become frayed by the use of guide-forks, the loose threads may be cut off without injury to the belt. If the belt slips a little at first, consequent upon the surface being ruffled in the unrolling, apply a little oil, grease or common soap to the pulley side to make it grip.

J. I. CASE. T. M. CO.

