

The Goodison Means
Happy Owners and Jolly
Threshing Crews

If it's as Good as a Goodison-It is a
GOODISON





GOODISON THRESHERS

Honesty of Service

"Honest material, honest workmanship and honest service" has been the motto of the Goodison for generations.

Every piece of material that goes into the construction of the Goodison—wood, iron, or steel—is carefully selected and thoroughly tested before it is used. Skilled workmen with the best equipment of a modern plant, following designs that have been evolved from a lifetime of manufacturing experience, give to the Goodison a capacity for service that is unequalled.

The Goodison is made and assembled with conscientious care. It is not hurriedly put together or hastily inspected. Every piece must fit and every part must be trued up and aligned to a perfect balance; every brace, wheel, cog and shaft must be flawless and of accurate proportions before the Goodison standard is reached.

It is this accuracy, this painstaking care in construction that gives that final finish which makes the Goodison stand out more complete than the rest. Forty years of service in the field have justified this completeness. It has met and passed every test of time and hard usage and through this service has won the trust and esteem of every one of its users.

We at all times aim to maintain that reputation—to manufacture a line which not only "fills the bill," but satisfies completely.

In soliciting your consideration of Goodison machinery, we refer you to Goodison users. We would appreciate an opportunity to serve you as we are serving our many friends throughout the continent—the Goodison users.

THE JOHN GOODISON THRESHER CO., LIMITED

Sarnia, Ontario, Canada

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GOODISON THRESHERS

The Goodison Thresher

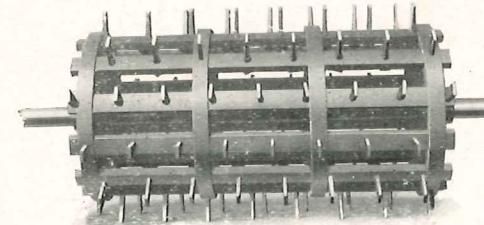
The three functions of a grain separator are—threshing, separating and cleaning. It must thresh out the grain completely, separate the grain from the straw without waste and finally deliver the grain clean.

The following descriptions illustrate how the Goodison fulfils these functions efficiently.

Cylinder—Capacity, weight, proportion, and exact balance—these are the qualities that make the Goodison cylinder "hum" like music in the thresherman's ear.

Large, heavy and modern in every detail, it is built for a lifetime of service. Each cylinder head is separately trued up before placing on the shaft, which is made of high-grade carbon steel.

Two outer and two middle heads reinforce the cylinder, making it rigid enough to withstand the heaviest strain. Twelve heavy bars are securely held in place by four steel bands which are *shrunk* upon the cylinder heads, each band being lathe-turned for balance.



Perfectly Balanced Cylinder

Perfect balance is the keynote of the Goodison. The finished cylinder is tested in running balance at a speed of more than 2,000 revolutions per minute. The balancing frame stands loose on the floor at a perfect level and is so arranged as to allow the cylinder to move freely in any direction. The cylinder has to spin in perfect balance and without a fraction of a jump in order to keep its position in the grooves. *There are no supports to hold the shaft from jumping out of these grooves. This proves the perfection of the Goodison balance.*

The final test is made by running the cylinder in the machine, where it must spin in perfect alignment and exact balance before the Goodison standard is reached.

A special *Turkey Wheat* cylinder is constructed for threshing in Kansas and Oklahoma, and other localities where the straw is heavy and tough. A double row of teeth is provided and the same material and balance is maintained throughout.

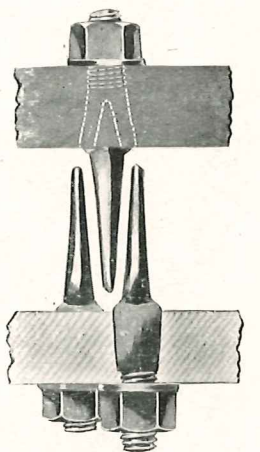
Cylinder Frame and Boxes—Two special iron sides joined together by tie-rods and securely bolted to the frame posts and cross plate, hold the cylinder shaft boxes and concave holders in rigid support.

The cylinder boxes are built in halves, allowing for adjustment to wear. They are heavy, large and self-aligning with inside linings of the best anti-friction babbitt, which insures the smooth action of the shaft.

All end play can be adjusted by the draw-bolt through the iron sides, and compression grease cups of the most approved model are supplied for lubricating the cylinder boxes.

The Goodison Tooth—Without good teeth the grain separator cannot handle all the grain as it should, with the result that many kernels of grain remain in the straw.

The New Goodison Tooth is the result of years of experiment and research work. Our chemists have evolved a special metal which gives to the Goodison tooth every element essential to long life and service.



Gets All the Grain Without Cracking

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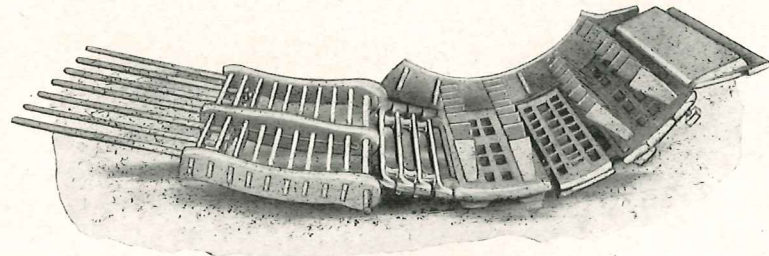
GOODISON THRESHERS

A chemical analysis of the material used and an examination of the shape of this tooth will convince anyone of the inherent toughness and durability of the steel as well as the radical improvement in design.

The large working surfaces of the Goodison Teeth, as well as their careful spacing, give to the Goodison Thresher a greater threshing capacity than any other machine of equal size. The contour of the tooth as well as the distribution of the metal, will convince every experienced thresherman that it possesses more qualities of resisting wear than any other tooth made. *It is impossible to break the Goodison Tooth.*

The shank is long and tapering, having a lug to prevent turning in the bar. The bar in which it is fastened is *one solid, heavy piece of steel* (not two light ones bolted together) and the hole is *bored* (not punched). This makes the shank fit accurately when the nut is drawn. It cannot work loose.

Concaves and Grates—In a correctly designed thresher, it is estimated that about 90% of separation occurs through the concaves and grates. The best result can therefore be obtained only by a large concave and grate surface. This important



Large Concave and Grate Surface

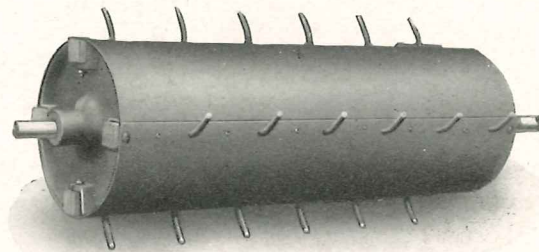
feature in threshing has been carefully considered in the building of the Goodison. Every Goodison is *oversize*. That is, our measurements are taken from end to end of the working surface, not the throat opening. For instance, our 22" thresher has a 23" throat opening, and all sizes in like proportion.

The Goodison concaves are very heavy and constructed of the very best material. You can use from one to six rows of teeth as required, and a special grate is provided for threshing peas. By a handy lever, the concaves can be adjusted while in full operation.

Drum Cylinders—The function of the drum cylinder is to prevent the waste of grain. It prevents bunching of straw or back lashing on the cylinder, spreads the grain in a uniform layer on the straw decks and beats out all the grain that is held in the straw.

It is built on a turned steel shaft with strong, carefully bored cast-iron heads. The heavy sheet steel drum is provided with four rows of picking fingers which are secured to hardwood bars under the steel drum covering.

The drum revolving at a speed of 650 revolutions per minute causes the four rows of fingers to pass through the grate rods in a continuous stream. *Two thousand, six hundred rows of picking fingers carding and combing the straw every minute.* This spreads the straw like carded wool, over the straw deck without a single bunch, which allows every remaining grain to fall through the straw decks as it is agitated there.



Separates All the Grain

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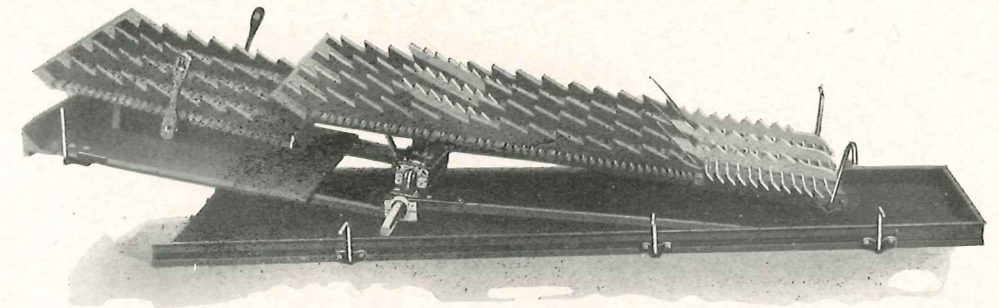
GOODISON THRESHERS

Straw Decks—The straw decks on the Goodison represent another grain-saving feature. They have strong sides which carry the slats so arranged that the square sides are in contact with the straw, propelling it onward at each movement of the deck. At the opposite throw of the crank shaft they separate, allowing the straw to pass over the top of the first deck and *drop* to the second deck, 12 inches below. This distinct "*break and fall*" causes what grain might still be held in the straw to be shaken loose and dropped on to the grain decks below.

When the rear straw deck is thrown forward and upward, the front deck is thrown rearward and down. This reverse action of the two decks absolutely prevents the straw winding into bunches. This unique action also gives twice the throw of other separating devices.

The four separate movements—upwards, backwards, downwards and forward—one following the other in perfect rhythm of counter-balance, cause the straw to pass over the deck in a thin, uniform layer, which gains in speed as it passes and grows thinner and thinner as it approaches the end of the decks.

The forward and downward movements give a "toss" to the straw while the upward and backward movements meet the falling straw with a slap that agitates and dislodges the last kernel of grain.

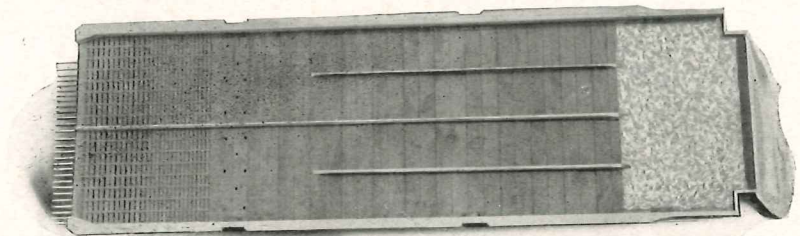


Large Area, Positive Shake, Saves Grain

The decks are so wide in comparison to the cylinder that it is impossible to overload, while their great area allows the straw to spread out so thin that grain cannot be held. These are the secrets of grain saving—area and agitation. This combination of cylinder, drum cylinder, adjustable grate and the distinct "break" and "reverse" movements of the straw decks are Goodison features to be found in no other machine.

Grain Decks—The grain decks have the same "break" and the same effective counter-balance, while they, in turn, are timed to counter-balance the movements of the straw decks. They are hung upon substantial steel supports which work in *double* boxes on the side frame and are agitated by the action of the crank shaft through a long connecting rod. The bottom is fluted, which carries the grain forward in a uniform layer so that the chaffer never becomes overloaded to the point of carrying grain back to the tailings elevator.

The driving and balancing of the Goodison is perfectly arranged so that the separator remains steady when in operation. It requires no bracing even when running at high threshing speed, which means long life for the machine as well as clean and efficient threshing of all kinds of grain and under all conditions of threshing.

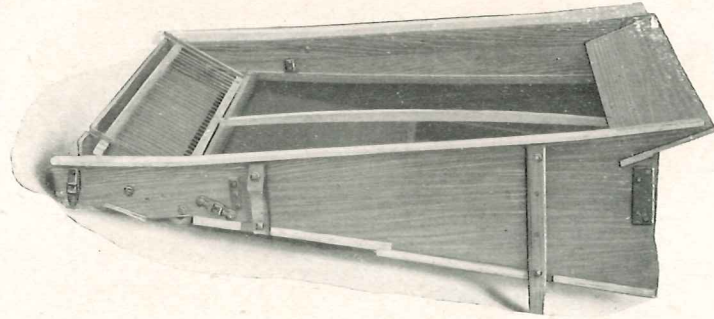


Fluted Bottom Moves the Grain in Even, Steady Flow to the Sieve—No Clogging.

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Cleaning Shoe—The end-shake movement of the cleaning shoe, as embodied in the Goodison, utilizes the entire cleaning surface of the sieve—the chaff and fine straw pass towards the rear while the grain drops on the sloping bottom of the shoe, through a well-regulated blast of the fan. It is built from the same honest material of which the entire Goodison is made and is driven by two eccentrics from an independent shaft in front of the mill fan. It hangs on four hickory springs that never wear out and oscillates perfectly and noiselessly.



Large Cleaning Surface

The chaffer, which is a continuation of the grain deck, and extends over the sieves, including the tail sieve, is made of screen slat work, strong and light, and so arranged as to take care of all kinds of grain, allowing it to pass through yet excluding the straw and other matter from the sieves. The great cleaning surface—fourteen to sixteen square feet—enables it to clean thoroughly and without waste, all the grain the cylinders can handle. Either wire or adjustable sieves are supplied.

The Mill Fan—The mill fan, like every other rotating part of the Goodison, is perfectly balanced. Every wing is of equal weight and proportion and the whole is tested and *aligned in a lathe* before placing in the machine. It is strong and of ample capacity. The drum is of heavy sheet steel, the shaft of turned carbon steel. The four fan boards are securely stayed to hubs and cross pieces by large set screws. A shifting wind board is so placed that the blast may be regulated to any desired point, over, under or through the sieves and in even intensity throughout.

Shafts and Bearings—All shafting on the Goodison is of best quality steel, lathe-turned to perfect bearings. Every shaft, small or large, is supported by *double boxes* and aligned *on the machine*. All high-speed bearings are lined with high-grade anti-friction babbitt metal and every bearing is babbitted *after it is placed on the machine*. This makes every bearing perfectly true and in line.

Belting—All the belts on the Goodison are made of the best material. Each belt has its special work and no one belt is used to drive more than one part of the machine.

It is the aim of the Goodison to provide equipment of equal quality to the machine, and a lifetime of experience in the field has proved that the Goodison equipment, like the Goodison machine, is unequalled for long-wearing qualities.

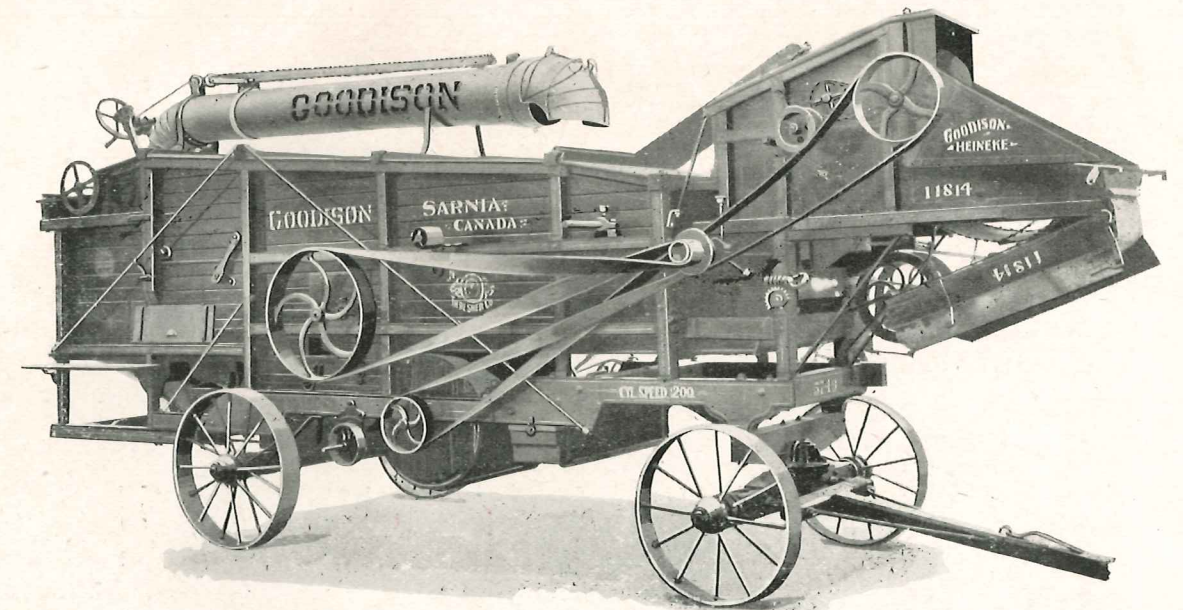
Wheels and Trucks—The wheels supplied with the Goodison Thresher are of regulation size and strength, suitable for threshing machines. The rims and spokes are made of heavy steel with cast hubs of sufficient strength to withstand the heaviest strains of all classes of ground or roads. The axles are of heavy channel steel. They are large and strongly built, so they cannot wear out or break.

The front wheels pass clear under the sills of the separator, which makes it possible to turn sharply on small space when necessary.

The truck is fitted with a jointed tongue, strongly braced and made of the best material obtainable. It can be used for either horses or traction engine.

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The Goodison Separator Handles it Fast and Saves the Grain

The Frame—The Goodison frames are made from sun-dried (not kiln-dried), thoroughly seasoned hardwood, each piece of exact size and shape to fit perfectly. The mortises and tenon joints are driven together with a coat of lead and oil to keep out moisture and to prevent decay. The sides are in *one solid piece* (eight-inch boards glued), and the pattern is cut out of *one piece*. Every joint is reinforced by sills. This one-piece arrangement, reinforced by truss rods and thoroughly braced, keeps the frame solid and holds every shaft and bearing in perfect alignment.

Finish—Paint in the Goodison is used for protection, not to cover up blemishes. Every stock of wood is primed long before using, and all primed pieces are stored away before erection. This allows the priming to become thoroughly hard and dry before using. Only the best of paints and varnishes are used, and those in quantities to withstand the hard usage and exposure encountered in field operation. A new formula for mixing paints has been worked out by our chemist whereby added protection is given to the wood. It fills up the pores of the wood, making an air-tight surface which preserves it from decay and adds strength and durability to the wood.

The finished machine presents a handsome and pleasing appearance and the observing buyer will see that it is easily the nicest looking machine on the market.

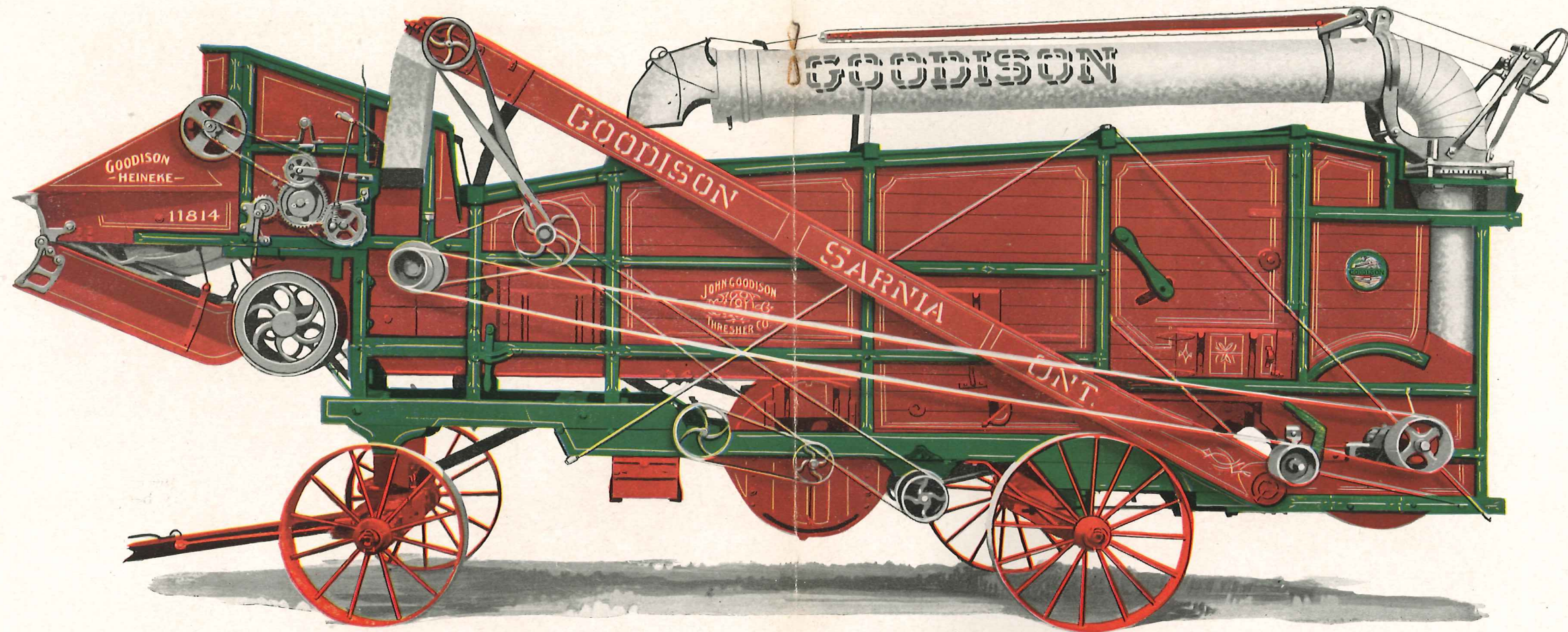
Tests—One of the reasons why the Goodison wears longer, runs easier and does a better job of threshing than any other machine is the thorough tests which every part of the machine must pass. In the preceding pages, the tests made on cylinder, drum cylinder and every rotating and oscillating part have been described. Every machine is subjected to a long running test *after* it has been painted and fitted up. Journals are oiled and every part properly adjusted for immediate operation in the field. We do not cover up the journals with paint and let the thresher do the final "loosening up." Every bearing is true and must run smooth and cool before leaving the plant.

Thresher Supplies—We have on hand at all times a large stock of brass goods, belting, oils, greases and, in fact, everything in the line of threshing machine equipment. Goodison parts are always procurable as our distribution reaches every Goodison owner.

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The Goodison Thresher With Gearless Stacker and Heineke Self Feeder

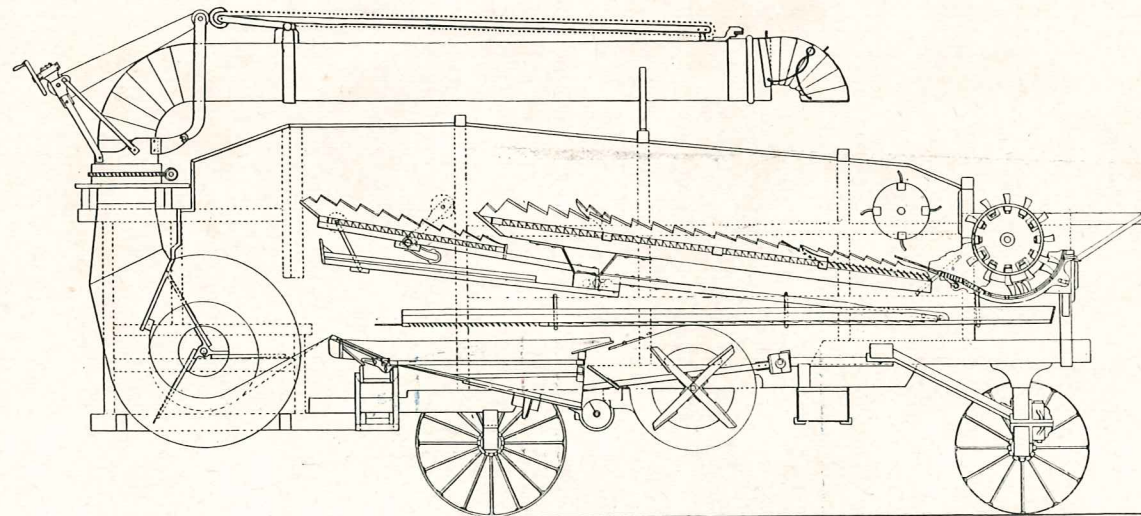
Every Good Feature Needed For Good Threshing

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Goodison Balance



The above diagram shows the interior construction of the Goodison

Perfect Balance is the keynote of the Goodison. Every shaft and bearing is perfectly aligned and every rotating and oscillating part exactly balanced.

The cylinders, the fans, the racks—every moving part is timed to move in exact counter-balance—one movement acting against the other at the same moment.

“Equal forces, acting in opposite directions at the same time, neutralize each other.” This is the principle upon which the Goodison is built—the secret of its smooth and steady action. Examine the construction of the Goodison and note the perfect balancing of every part. Examine the Goodison in operation and note the absence of vibration. The Goodison does not jump or jar—it runs smoothly and easily without rack or strain.

Goodison Special Attachments

Straw Cutter—One of the greatest labor-saving devices ever attached to a separator is the Goodison Straw Cutter. The value of having straw cut is recognized by all farmers. More straw can be stored in the same storage capacity while the value of straw as fodder is greatly enhanced.

The Goodison Straw-cutter (which can be equipped on our 50' separator) is built in the machine and is an integral part thereof. Threshers desiring machines equipped with straw-cutter should order the special Goodison Separator already equipped with straw-cutter. Wherever one of these machines has been introduced, it has made an excellent record for itself and given profitable and satisfactory service to its users.

Barley Bearder—This is a valuable device for threshing barley, and should be included by every thresher where barley is extensively grown. It is attached to the machine immediately in front of the grain conveyor, and does not have to be removed when not in use. It takes all beards completely off the grain and gives a polish to the grain which brightens the color—thereby increasing its market value. It delivers the grain at either side of the machine. Prices given on request.

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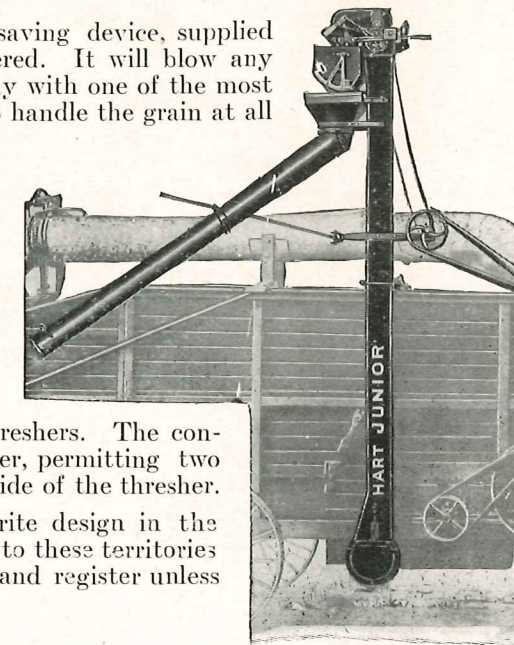
Chaff Blower—The function of the chaff blower is to take all the chaff from the shoe and deliver it into the mow or any other convenient place. It is strongly constructed and easily attached, and requires little additional power for its operation. It runs smoothly and silently, doing very efficient work. A decided asset to clean threshing.

Grain Blower—This is another great labor-saving device, supplied with the Goodison when ordered. It will blow any kind of grain from the thresher to the granary, doing away with one of the most tiresome jobs in threshing. There are no men required to handle the grain at all when this blower is used.

Hart Junior Weighers and Registers

The auger type of conveyor used in the Hart Junior Weigher permits the head of the elevator being from 6 to 12 inches lower (closer to the deck of thresher) than other styles of grain handlers, and at the same time makes it possible to have the delivery at outer end of conveyor about 16 inches higher than ordinarily, thus giving sufficient height to deliver into wagons or grain tanks even when used with low-deck threshers. The conveyor can be swung over the deck, or out from the thresher, permitting two or more wagons, set side by side, to be loaded on either side of the thresher.

The Hart Junior 12 and 14-foot elevator is a favorite design in the Canadian North-West. All Goodison Separators shipped to these territories are therefore equipped with the 12 and 14-foot weigher and register unless otherwise specified.

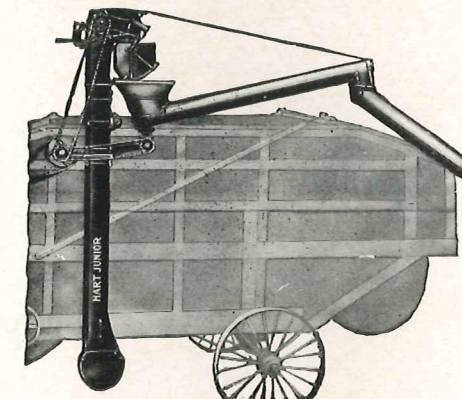


Furnished with 12 and 14-foot Elevators

Grain Baggers

The bagger has become almost a necessity where grain is being bagged at the machine. It is difficult to handle the grain as fast as it comes from the machine without some device for bagging.

The Hart Junior Weigher and Register can be equipped with bagging attachments for Ontario or Eastern Canada where bagging is desired as special equipment. Prices on application.



Swinging Conveyor and Wagon Spout

Goodison Windstacker—Like the rest of the machine, the Goodison Windstacker is carefully and strongly built from the choicest material. It has the same perfect balance which is the standard of the Goodison throughout. Simple and noiseless and easily driven, it handles any kind of straw in any quantity and under any condition.

The design of the Goodison Windstacker follows the standard design which has proved itself under actual field operation to be the only efficient device for delivering the straw from the machine. In addition to being perfectly balanced, it is so adjusted to the machine as to counteract against the pull of the drive belt, thereby helping to adjust the balance of the whole machine.

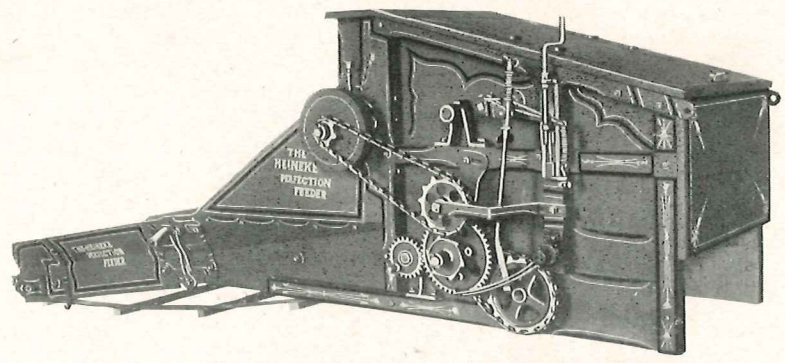
The telescope arrangement of the pipe allows the thresher to turn the straw into any sized barn, as it can be lengthened and shortened to suit. The bar arrangement along the top of the pipe, together with the elevating attachment, facilitates the raising and lowering of the pipe, while the adjustable hood turns the straw in any desired direction.

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The Heineke Perfection Feeder

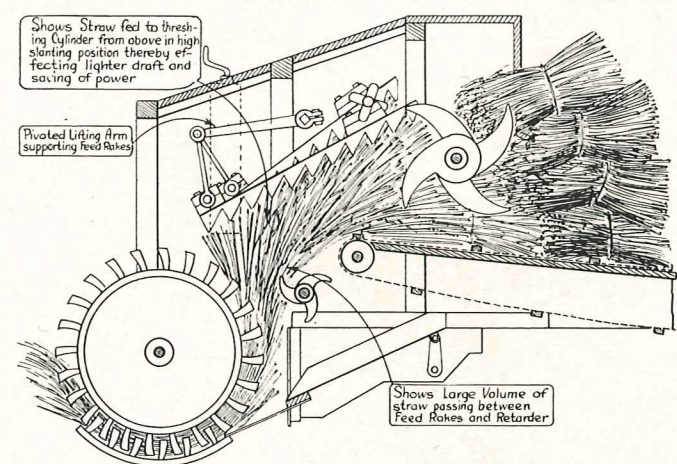
The Heineke Perfection Feeder is now being constructed by the Goodison Thresher Company at the Goodison plant. The same high standard of material, workmanship and balance which applies to the Goodison Threshers applies equally to the Heineke Feeder.



Goodison-Made Perfection Feeder

The frame for the feeder sides is made of select hardwood and is covered with sheet steel siding on which all exposed edges are crimped and rolled to insure strength and durability and at the same time reduce the weight as much as possible. Every working part is made from selected material and shaped to fit exactly, while perfect balance is maintained throughout.

The Heineke Feeder has proved by actual service in the field to be the fastest and most efficient feeder ever designed. It handles the grain fast and clean, and feeds the cylinder in a uniform layer without slugging or choking the machine. It is strong and compact, smooth-running and easy to operate.



Sturdy, Compact, Smooth-running

Every Heineke Feeder is positively guaranteed to feed any sized separator to its full capacity in any kind or condition of grain without slugging the cylinder. It thoroughly divides stack-burnt, damp or wet grain before delivering it to the cylinder—feeding it in such a manner as to prevent undue strain on concave and cylinder spikes. It has a greater capacity and will do a better job of feeding than any other feeding device now on the market.

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Specifications

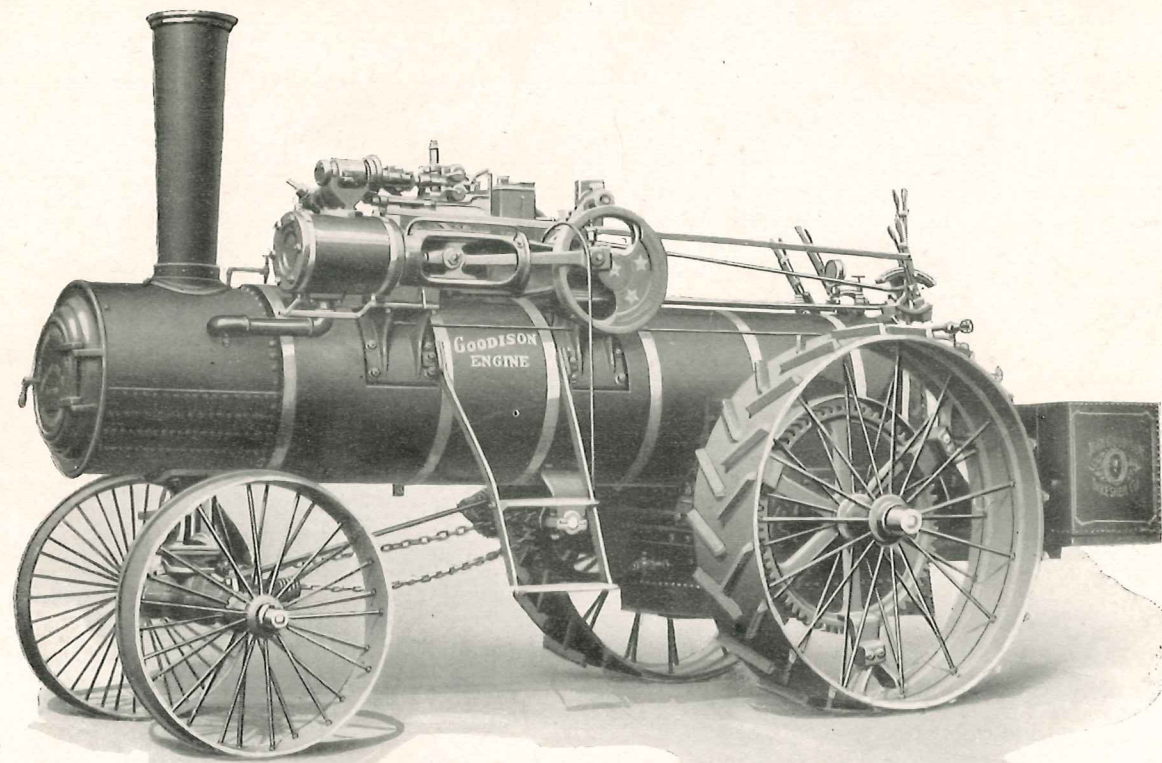
Model	22x38	24x42	28x42	32x50	36x50
Width of cylinder.....	22"	24"	28"	32"	36"
Width rear of machine.....	38-1/4"	42-1/2"	42-1/2"	50-3/8"	50-3/8"
Number of bars in cylinder.....	12	12	12	12	12
Number of spikes in cylinder.....	57	63	75	87	99
Diameter of cylinder including spikes.....	21-3/4"	21-3/4"	21-3/4"	21-3/4"	21-3/4"
Number of bands on cylinder.....	3	3	3	4	4
Speed of cylinder.....	1200	1200	1200	1200	1200
Size cylinder shaft.....	2"	2"	2"	2"	2"
Length cylinder shaft bearings.....	6-1/2"	6-1/2"	6-1/2"	6-1/2"	6-1/2"
Grate surface in square feet.....	5-1/2	6	7	8	9
Front concave adjustment.....	Yes	Yes	Yes	Yes	Yes
Diameter main drive pulley.....	8-1/2"	8-1/2"	8-1/2"	8-1/2"	8-1/2"
*Face main drive pulley.....	9"	9"	9"	9"	9"
Length of straw racks.....	12' 8"	12' 8"	12' 8"	13' 2"	13' 2"
Length of grain bottom and chaffer.....	12' 7"	12' 7"	12' 7"	13' 1"	13' 1"
Rack surface in square feet.....	40-1/9	44-2/3	44-2/3	54-1/6	54-1/6
Chaffer surface in square feet.....	10	12	12	14-1/2	14-1/2
Riddle surface in square feet.....	10-1/2	12	12	15	15
Length separator with S.F. and W.S.....	26' 6"	26' 6"	26' 6"	29' 0"	29' 0"
Height of machine at feed table.....	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"
Height of machine at rear.....	7' 10"	7' 10"	7' 10"	7' 10"	7' 10"
Height of front wheels.....	32"	32"	32"	32"	32"
Width of front wheels.....	5"	6"	6"	8"	6"
Height of rear wheels.....	36"	36"	36"	36"	36"
Width of rear wheels.....	5"	6"	6"	8"	8"
Approximate capacity per hour—Wheat.....	120	150	160	200	250
Approximate capacity per hour—Oats.....	180	225	250	300	325
Belt H.P. required with S.F. and W.S.....	10-20	12-25	15-30	25-50	25-50
Weight fully equipped.....	6400	6980	7150		

*NOTE—Drive Pulley optional from 6 1/2" to 12" in diameter as required.

These specifications subject to changes without notice.

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The Goodison Steam Engine

For Threshing and All-Round Farm Work. Can Be Equipped to Burn Coal or Wood.

A tractor is essential to success on every average farm. In selecting your Steam Engine, you should consider not only the initial cost, but the cost of operation, such as fuel and repairs. The Goodison Steam Engine will do the work at less expense and with more satisfaction wherever coal or wood is available.

The simplicity of design, ease of operation and the reliable steadiness of its power, renders the Goodison Engine unequalled for threshing power and unsurpassed for many other kinds of farm, belt and traction work.

It is carefully built in a modern Canadian plant by expert workmen, many of whom have devoted their entire lives to the manufacture of Goodison machines. The material used is the best procurable. Every Goodison must withstand inspection tests far more exacting than any Government specification test, before they are deemed good enough to leave the Goodison factory. And a Government inspector's certificate is issued with every engine. It is a fitting team-mate for the Goodison Separator—"The kind you can afford to run."

Boiler—All the new Goodison Boilers are High Pressure Boilers, being built to withstand 170 lbs. pressure. Large heating area makes easy steaming and gives maximum power at minimum fuel costs. They are of the Locomotive type; the boiler plates used being of the best Open Hearth Homogeneous Steel of 60,000

lbs. tensile strength with reinforced plates securely riveted on the inside shell. Every stud and bolt passes through two thicknesses of boiler plate to prevent leaking, and all openings larger than $\frac{3}{4}$ " have reinforcing plates on inside of boiler. Government certificate shows that our boilers have passed every Government test.

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Jacket—The boiler, dome and cylinder are thoroughly jacketed. The boiler is first covered with two thicknesses of asbestos, then stripped with wood, and a dead space provided between asbestos and heavy wood lagging. A final covering of special planished Russian iron, held securely down with brass bands, makes an excellent finish.

Fire Box—Large, open type ensures proper combustion of fuel for quick steaming. Heavy steel ring around the door opening; fusible safety plug in crown sheet, eight large hand-hole plates and a $\frac{2}{4}$ " steel mud ring around the bottom are provided. The air-tight ash pan prevents fire when threshing near barns.

Smoke Box—This is an extension of the barrel or shell. It is provided with improved smoke stack and screen to stop the sparks. The tubes are all easily reached through cast iron doors which hang on the shell of the boiler.

Flues—Made of high quality steel with smooth surface to prevent scale from adhering; spaced to give free circulation of water and steam.

Dome—Made of the same strong material as the boiler and is securely braced. Its position, as well as the arrangement of steam pipe, eliminates cooling by air exposures and gives adequate supply of dry steam to the engine.

Piston—A strong cast iron head securely fastened to a rod of steel. The rings, fitted to the exact diameter of the cylinder, make a steam-tight joint.

Cross-Head—Large, strong, and perfectly shaped to fit. Wedge-shaped shoes are bolted to the cross head and turned to fit the bore of the guide. A set screw is provided to adjust wear.

Cylinder—Made of hard, close-grained grey iron and securely bolted to the frame in perfect alignment. It is bored true and the position of the steam chest makes possible a small piston clearance which eliminates loss of power through escaping steam.

Connecting Rod—Forged from solid bar steel without welding of any kind. Exceptionally strong and safe. Boxing is of high-grade bronze made on an incline and so fitted with an iron wedge as to make adjustment simple and true.

Crank Shaft and Disc—High carbon steel, lathe-turned the entire length. The large diameter of

the crank disc, which is pressed on the shaft by sixty-ton hydraulic pressure, produces perfect counter-balance and smooth running.

Friction Clutch—Positive and reliable in operation. The friction shoes are bolted to the friction hub and turned to fit the inside rim exactly. Turn buckles with lock nuts are placed in the toggle levers for adjusting wear. The lever is in handy reach from the platform.

Traction Gearing—Made from special machine-cut patterns fitted to mesh perfectly. Strong, heavy shafts and wide bearings withstand hard usage. Transmits the power to the road wheels without strain or friction.

Reverse Gear—The reverse gear of the Goodison is simplicity itself. It reverses the engine promptly without jar or jolt, and can be set to suit the amount of power required.

Countershaft and Bracket—A large countershaft of carbon steel and an extra heavy bracket of special design assures perfect alignment under all strains or wear.

Watson Governor—The Watson Governor can be regulated by a lever from the foot-board. With this device you have steady, even power at any desired speed.

Friction Brake—This is operated by a lever, and is a perfect safeguard against accidents. It holds the engine steady for belt work.

Engine Frame—Of Box Girder Pattern, the frame is bolted to brackets, which are in turn bolted to the boiler. All wear is taken on the cap instead of the box, which maintains perfect alignment at all times.

Traction Wheels—The road wheels are made with steel spokes cast into the hub and rim. This type of wheel is strong without excessive weight and stands up well to any kind of traction work. The lugs, which are all chilled, are arranged to provide a self-cleaning, smooth-running wheel either on hard or on soft ground.

Equipment—Every Goodison engine is equipped with two injectors, genuine Manzel Force Feed oil pump, wrenches, flue cleaner, pokers, suction hose, together with a complete line of oil and grease cups. All fittings conform to Government specifications.

IF IT'S AS GOOD AS A GOODISON - IT IS A GOODISON