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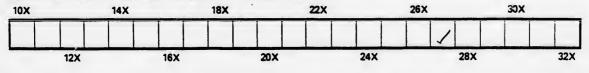
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Bryant Cold Metal Sawing Machines



Shop Saws and

Shop Saw Blades

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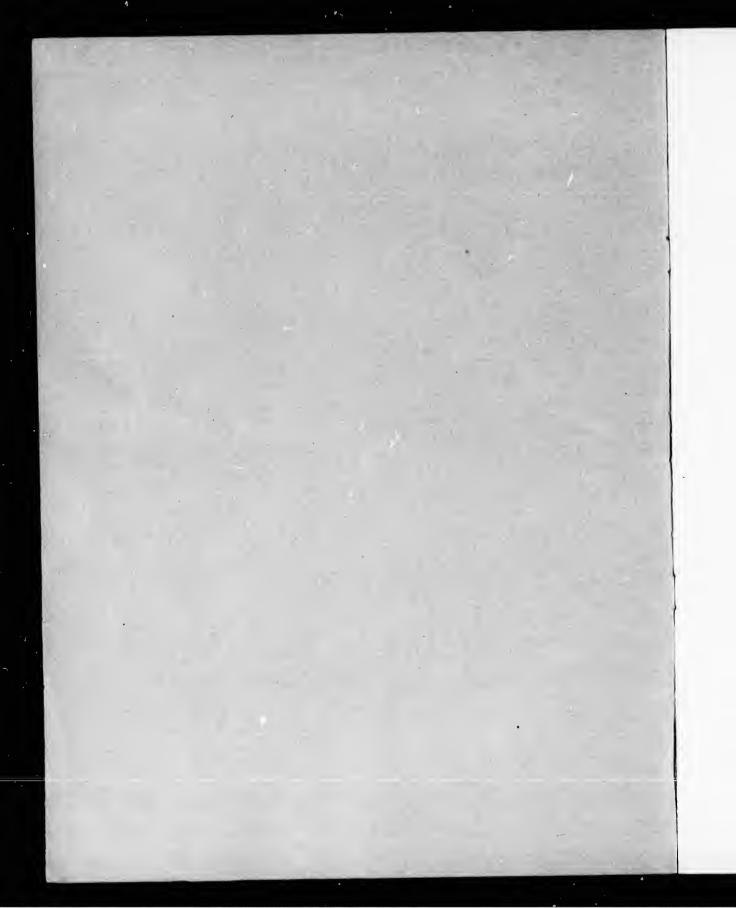
Manufactured by

The Q&C Company

GENERAL OFFICES: 700-709 Western Union Building Jackson Boulevard and Clark Street

1898

Chicago, Illinois



The Q & C Company

Manufacturers of

Railway Specialties and Special Machinery



CHICAGO HLADQUARTERS

General Offices:

CHICAGO, 11.L. 700-709 Western Union Bldg.

NEW YORK 100 Broadway

MONTREAL 17 Place de Arms Hill

ST. PAUL 109 Endicott Arcade

SAN FRANCISCO 525 Mission Street

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NEW YORK OFFICE

OUR SPECIALTIES

The Servis Tie Plate McKee Brake Slack Adjuster Dunham Car Doors Q & C Trolley Car Doors Perfection Oil Purifier Q & C Priest Snow Flanger Bryant Portable and Power Saws Q & C Shop Saws and Saw Blades Williams' Valve Setting Device Q & C Scott Boiler Feeder Q & C Locomotive Check Valve (ilobe Ventilators, Etc.

SEND FOR OUR RAILWAY SPECIALTY CATALOGUE



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PREFACE

General 10ca This catalogue is intended to give only a general idea of the different sizes and capacities of Cold Sawing Machines which we manufacture and carry regularly in stock, and the class of work for which they are best adapted.

- **Our Policy** It is our policy to sell these machines subject to fair and impartial trial before acceptance, and we court most complete and thorough test in keeping with our guarantee and representations made as to the capacity and adaptation of each machine, not, however, holding ourselves responsible for breakages or failures that result from experimentation outside of our guarantee.
- **Our facilities** We have very best facilities for getting up special machines to meet requirements of customers whose work is out of the ordinary line, and will be glad to furnish estimates of cost upon receipt of information giving results to be accomplished and invite correspondence from parties seeking such machines.
- **(Datcrial and UCOrkmansbip**) All our machines are made of the very best material and constructed in a workmanlike and substantial manner, but should it be necessary to duplicate any parts, please give name and number of machine, date of purchase, and complete description or sketch of part wanted, and as these are always carried in stock and interchangeable, repairs can be furnished promptly.
- **Our plant** Our factory is located in the suburbs of Chicago, at Chicago Heights, III., on the C. & E. I., and Chicago Outer-Belt Line R'ys. It is large, commodious and equipped with latest improved machinery and our shipping facilities are unsurpassed. See page 24.

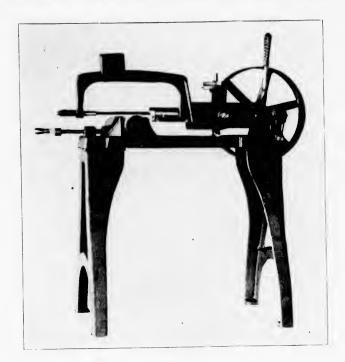
Correspondence Should you not find all desired information within these pages, please write us and we will answer all inquiries promptly and cheerfully.

THE Q & C COMPANY

THE NEW Q & C SHOP SAW, No. 1

LATEST OUT LATEST DESIGN

Has Automatic Variable Feed which can be instantly changed without stopping the machine. Is supplied with improved gravity feed for extremely hard metals of small size.

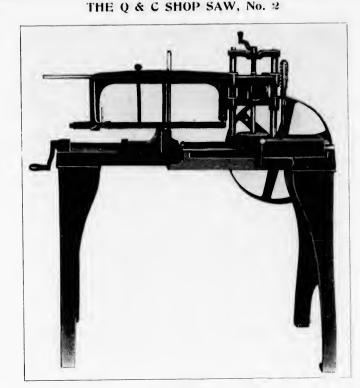


DETAILS

 Capacity 									ł	1.	h Solids
Floor S	acu	٠.							18	`	30 inches
Height,											26 inches
Weight,										1	30 pounds
Speed,					5	o r	evo	iuti	ons	p	er minute
Size of											215 inches

UR many years of experience in the manufacture of Metal Sawing Machines for all purposes, has led us to believe that there is a demand for a cheap shop saw of small capacity, and one which will cut tool steel as well as other metals. The No. 1 Shop Saw, as illustrated above was designed for this purpose and we now offer same to our trade, feeling confident that it will do this work and supply this long felt want for a cheap machine. This Shop Saw is our latest design and in the construction of same we have overcome the weak points of and greatly improved upon the old style machines, believing in so doing we would be able to furnish a cheap Shop Saw that would be entirely satisfactory to our large trade.

Sold complete, including six of our 12 inch Saw Blades, for tool steel.



DETAILS

5 inches

19 x 34 inches 3 foot 5 inches

. 50 revolutions per minute

Capacity, Floor Space, Height over all, Speed, Stroke of Saw Blade. Length of Saw Blade. Size of Pulley. Weight. 6 inches 14 x 2¹2 inches 14 x 2¹2 inches 140 pounds

Designed for metal workers generally. Capacity 5 inches and less.



HIS machine, with sharp blades, will cut very fast. It will also cut square when properly handled. It will cut off a bar of steel at about one-tenth the cost when using a lathe or planer. The Q & C Shop Saw, No. 2, is constructed on an entirely different principle from any constructed on an entirely different principle from any

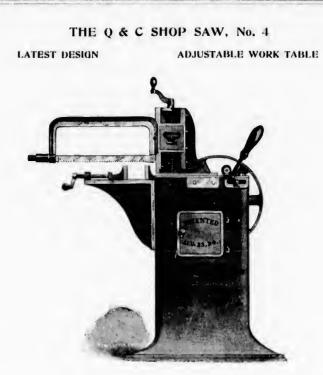
• other machine, great care having been taken to overcome the objections to the old style gravity feed hack saws. It is provided with double guides for saw blades and will cut perfectly square. It is built in the best possible manner, all screws, rods, guides, etc., being made of steel, and is so arranged that a handle can be attached to the pulley if desired to run by hand power.

It is a great improvement over the power hack saw and has positive automatic feed which can be instantly changed to accommodate hard or soft metals, large or small. The power hack saw depends entirely upon gravity feed. The Q & C Shop Saw has positive automatic screw feed, adjustable to all kinds of work.

The old style machines drag the blades backward on the work with nearly, if not quite, as much pressure as on the forward movement. This dulls the saws very rapidly. The frame of the Q & C Shop Saw has a horizontal motion, and does not drag the blade back on the work, actually saving fifty per cent of the wear upon saw blades.

The special blades provided with these machines are twice the width of the ordinary hack saw blades and are much heavier, and will give longer life and better service. The $Q \propto C$ Shop Saw is fully gnaranteed, and sold subject to test trial, before acceptance. Will save its cost in saw blades, alone, in a few months' service.

Furnished complete with one-half dozen saw biades. Delivered Chicago or New York.



DETAILS

Capacity, ,	8 inch Solids	Speed,	1	50 r	evol	lutio	ons per minut
Floor Space,	12 x 32 inches	Stroke of Saw Blade, .					6 inche
Height over all,	3 feet 2 inches	Length of Saw Blade, .					. 17 inche
Size of Pulley,	1.4 x 3 inches	Thickness of Saw Blade.					1^{1} incl
Height of Work Table,	. 21 inches	Weight,					. 230 pound



THIS machine is constructed similar to an ordinary shaper, and is run direct from main shaft. Has cabinet base which can be used as a receptacle for tools, etc.

Takes the place of expensive cutting-off machines; leaves the ends of the work square and smooth, ready to receive the lathe centers.

This machine has our patented automatic feed, of great range, which can be changed from fast to slow, instantly, without stopping.

We recommend this saw for cutting light architectural iron and brass work, piping up to 8-inch diameter and forgings of all descriptions within capacity. Also shafting and bar iron and unannealed steel.

An apprentice can operate ten of these machines at a time.

It will saw off a solid piece of steel 8-inch diameter.

One saw blade should last two or three days continuous cutting on soft metal.

Being entirely automatic in its operation, it requires little or no attention when cutting, and can therefore be used in conjunction with other machines by the same operator.

The saw blades are extra heavy and will not break under severe strain. The stroke of the saw blade is perfectly horizontal and does not drag back on the work, giving long life to the blade. The cost of operating this machine on ordinary work is so little, as to save its entire cost in a short time, over any other method of cold sawing. Sold complete with six Extra Heavy Saw Blades and fully gnaranteed.

Chicago and New York Delivery. Prices upon application.

THE Q & C CIRCULAR SHOP SAW, No. 8 LATEST DESIGN



DESIRABLE machine for all metal workers: covers wide range of work, greater than any similar machine made; can be instantly changed from slow speeding machine for cutting or milling steel, to a high speeding machine for sawing brass and other soft metals. Specially valuable in brass foundries for cutting gates from brass castings. Can be

used in stock rooms for cutting up stock, much better than a milling machine, and cheaper than a lathe; suited to all classes of work within its capacity.



This machine has been designed for general shop use and carries a saw blade 10 inch diameter, and is equipped with reducing gearing to decrease the speed of the saw from 150 to 15 revolutions per minute. The fast speed is used for cutting brass, copper and other soft metals, and is specially valuable for cutting tubing, pipe and gates from brass castings. It is equipped with lever feed which moves the saw forward as rapidly as it will cut, a valuable feature for cutting soft metals.

When the reducing gears are thrown in, the speed is decreased to 15 revolutions per minute, and the saw blade is then run in an oil tank, not shown, attached to the carriage and traveling with it. Saw blades can be worn down nearly their entire diameter, each machine being furnished with a

suitable sharpener, making it complete in every respect. When not forced, the saw will make a perfectly true cut. The feeding mechanism is simple and

positive, and can be instantly changed from slowest to fastest while the machine is in motion. The operation of the machine is so simple that an apprentice can run it.

The machine is equipped with an oil tank for use when cutting hard metals. This must be removed when running at high speed on soft metals.

The saw blades are hollow ground, with sufficient clearance to allow the entire blade to be used np, and they should be kept round and true by the use of the saw sharpener. This is very important, as it insures longest life of blades, as well as best results.

THE BRYANT PORTABLE RAIL SAW Nos. 5 and 6



 A low priced machine which will do all the work which our more expensive machines will, except angles

Valuable for repair work Automatic feed



No. 6 Machine uses 20⁴2-inch saw. Designed for **Street Railroads.** For square cutting **only.**

It cuts the rail without removal from track. Can be operated by two men. Cuts a rail in from 6 to 20 minutes. Does away with back saws and the great expense of blades.

Bryant Portable Rail Saw No. 5.

No. 5 PORTABLE RAIL SAW

HIS machine is similar to our No. 5 A, but is designed for straight cutting only. Its capacity is rails, beams, channels, etc., up to 6 inch in height. It is a strong, durable machine having automatic feed and adjustable jaws for fastening to the work and is designed to meet the wants of those who only have straight enting to do, and do not care to pay the price of a machine designed for angles. It is of special value for cutting rail ends, as two workmen can handle it easily and carry it from place to place and cut a large number of rails per day. It is firmished complete with two 16-inch saw blades and grinder when requested. Weight, 250 pounds; boxed, 280.

No. 6 MACHINE, STRAIGHT CUT

WHS machine is exactly like our No. 5, but larger, designed for straight cutting up to 9 inches in height and is especially adapted to street railway work where angle work is not necessary. It is furnished complete with two 20½-inch saw blades and fully guaranteed.

It is a well known fact that when rails are cut off with a chisel a large percentage of them break **back of the cut and out of square.** A sawing machine will obviate this and the saving will in a short time pay for the saw. Our method of driving the saw by its periphery enables the operator to do a large amount of cutting easily. The Rail Saw has become a recognized road tool and many railroads consider them almost indispensable. Weight, 275 pounds; boxed, 310 pounds.

Prices upon application.

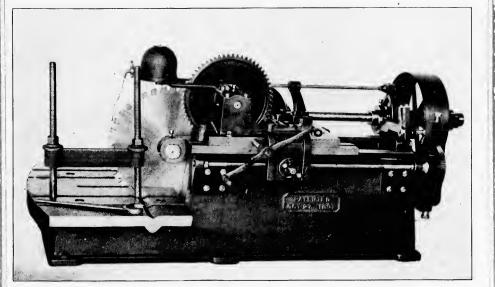


one, as the great decrease of power required is explained by the fact that the power is applied directly to the periphery of the saw blade, which enables the operator to get the greatest amount of power possible with the least exertion. Continuous cutting can be done with little effort, owing to its case of action. Steam tail can be ent in from 6 to 12 minutes. The saw blade is hollow ground and acts as a rotary planing cutter, it leaving the rail perfectly smooth and true. An accuracy valuable in cutting of **railends**. It is an indispensable tool to all track men. It is especially valuable in cutting of **railends**. It is of great value in making crossings and switch lay-onts on account of its ability to cut angles. It is well and strongly built, all feed gears, etc., being cut from solid steel: it is equipped with automatic feed and quick release, and can be attached to any rail in 30 seconds. Furnished complete with two Saw Blades and Grinder, ready for work. Weight of machine, 260 pounds; boxed, 300 pounds.

No. 6 A. A SPECIAL SIZE MADE FOR 9-INCH STREET RAIL 2012-inch Blade, With Automatic Feed

WING to the success of our No. 5 A Machine, described above, we offer a larger size called No. 6 A. This machine is an exact duplicate of the No. 5 A, but is larger, and uses a 20½inch instead of a 16 inch saw blade. It is especially designed to meet the wants of street railroads and contractors, where it is necessary to cut rails, etc., up to and including 9 inches in height and up to a 45 degree angle. The machine is arranged so as to be carried easily by two men. Furnished with two Saw Blades and Grinder complete. Weight, 285 pounds: boxed, 330 pounds. Prices upon application.

BRYANT POWER SAWING MACHINES No. 10



 Weight,
 2,500 pounds

 Floor Space,
 2 x 7 feet

 Speed of Driving Shaft,
 140 revolutions per minute

 Speed for Rails,
 125 revolutions per minute

 Size of Main Shaft,
 141 inches

 Capacity,
 15-inch I Beams, Solids, 5 x 12 inches

Horizontal Travel, Automatic Feed, Dimensions Driving Pulley, Saw Arbor. Horse Power Required, Diameter Sprocket, $\begin{array}{cccc} & & & 18 \mbox{ inch per minute} \\ & & & 1_{5} \mbox{ to } 1_{38} \mbox{ inch per minute} \\ & & & & 18 \mbox{ x $5 \mbox{ inch se} \\ & & & & 18_{4} \mbox{ inches} \\ & & & & 1\frac{3}{2} \mbox{ to } 2 \\ & & & & 6\frac{1}{10} \mbox{ inch} \end{array}$

THE NO. 10 Power Sawing Machine is designed for architectural iron work and will cut a 15-inch I beam straight or any angle up to 45 degrees on the end. Also for making frogs, crossings and switches, and for use in forge shops, etc.

By driving the saw from its periphery we are enabled to use very coarse teeth, which act as a milling cutter and which is the only correct method of cutting metals at low speed, preventing choking of or destroying teeth and blades, which occurs where fine teeth are used.

DETAILS

It is constructed of the very best material, in a workmanlike manner, and fully guaranteed. Is provided with adjustable sprocket, allowing 6-inch wear of saw blades without change.

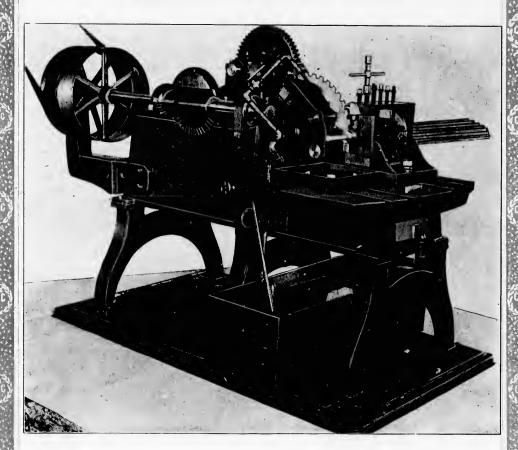
Bearings of saw arbor are bushed with phosphor bronze. Split feed nuts are made of bronze. It is provided with automatic stop and has our latest feeding mechanism, allowing feed to be changed instantly, to slow or fast, while machine is in motion. Built very substantially and geared down 30 to 1, requiring a very small amount of power. The sprocket which drives the saw is made of Park Brothers' special steel, and fully guaranteed.

10

It is furnished complete with Grinder and two Saw Blades.



SPECIAL No. 10 BRYANT SAW, ON LEGS



♥QUIPPED with Oil Pump and specially designed Adjustable Guides.

The Guides are necessary on account of using very thin Saw Plades, 1/8-inch thick, for cutting Tool Steel and any stock up to 8 inches in diameter where extreme accuracy is required.

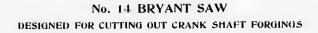
We also furnish with the machine a specially designed chuck for holding the work, a number of pieces at a time.

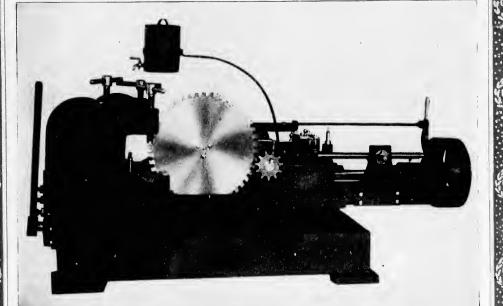
It is always necessary that we have the exact sizes and shapes of work to be cut when order is given, in order to furnish the correct chuck.

The machine is equipped with Automatic Feed of three speeds, Automatic Stop and all necessary piping and tanks, not including the floor plate

Our facilities for getting up special Sawing Machines are unsurpassed.

Send blue print or sketch showing results desired and estimates will be promptly furnished.





DETAILS

. . 6,500 pounds Weight, . . . Horse Power required, Speed of Driving Shaft . 140 revolutions per minute 34 revolutions per minute Speed of Saw Blade, Feeding speeds, . 14 to 1 inch per minute 25 inches Size of Saw Blade, . 4 inch Thickness of Blades, Size of Saw Arbor. 3 inches Size of Driving Shaft, . 214 inches Size of Driving Sprocket. 612 x 2 inches thick Horizontal travel of Saw, 15 inches 21/2-inch Adjustment Sprocket allowing for 5-inch wear of Saw Blade. Floor Space,

 Los

 Hardened Steel Worm Phosphor.

 Bronze Worm.

 Ball Bearing for end thrust of Worm,

 Phosphor Bronze Bushings for Pulley, Worm, Hood, etc.

 Quick return of carriage to starting point with rack and pinion.

 All Bearings adjustable for wear.

 Saw Guide Special Guiding Machine, Wrenches and Extra Saw with each Machine.

 Automatic Stop.

 Feed changed instantly

 Size of Pulley.
 18 x 6 inches

 Lateral adjustment of work table,
 17 inches



CHE machine illustrated above is designed exclusively for sawing out for the throw on crank shaft forgings and the capacity is 10×10 inch solids.

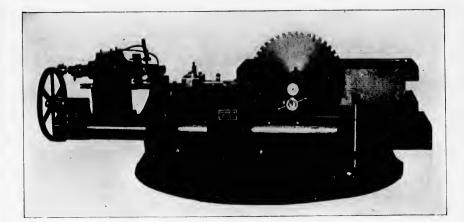
The lateral adjustment of the cutting table on which the forging is placed is 7 inches, which is approximately the length of the crank pin. In other words, this machine will cut out any crank shaft up to 10-inch diameter on which the depth of the cut does not exceed 10 inches and the pin does not exceed 7 inches in length.

In a recent test this machine accomplished work in **one** hour which could not be done in ten hours on a planer or slotter.

Furnished complete with two Saw Blades, Grinder, Clamps, Wrenches, Etc.

BRYANT COLD METAL SAWING No. 15 WITH CIRCULAR BASE

Equipped with Electric Motor



DETAILS

Size of Work Tables, Upper 20 x 48 inches and 22 x 18 inches,



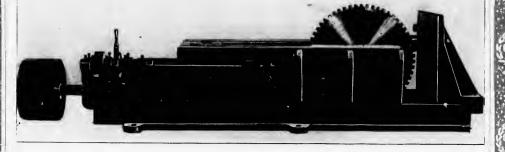
Capacity. Solids, 24 x 10 inches at all angles Horizontal travel of Saw, 24 x 10 inches at all angles Available diameter of Saw above upper table, 10 inches Diameter of Saw Blades, 25 inches Thickness of Saw, 4/4 inch Lateral adjustment of Saw, 1/4 inch Adjustment of Sprocket, 2¹/₂ inch, allowing for 6-inch war of saws

Base Swivels 90 degrees by Segemental Rack and Pinion.

HIS machine has been designed to meet the requirements of structural iron workers and bridge builders who do not have sufficient space to handle long "1" beams, channels, etc. It is adapted to the largest range of work, and its capacity in relation to its size and price is

over twice as great as any other machine. We have incorporated in this machine several very important improvements, the objects of which were to increase the feeding speeds, prolong the life of saw blades, and give a certain amount of lateral adjustment to the Saw. The feeding mechanism especially is greatly improved and can be quickly adjusted from slow to fast while the machine is in motion. The carriage has a quick return by means of rack and pinion, and the operation of the machine is greatly simplified. All bearings are adjustable for wear, and nothing but the very best material enter into the construction. The saw erder is under of the best hammered steel, the sprocket of Jessop's best cast steel, the driving worm with the prover is made of the best adapted for steel worm. The machine as shown is equipped with ettric motor and circular base. This machine, however, is made with stationary base for belt power, such machines being best adapted for steel foundries, folling mills, forge shops, railroads, frog and switch works, etc. Each machine is equipped with a Pratt & Whitney Oil Pump for lubricating the Saws, Oil Tank, Wrenches, etc., and formished complete with two 25-inch Saw Blades and special Grinding Machine.

BRYANT METAL SAWING MACHINE No. XX



DETAILS

Weight, . . . · · · · · . . 6,500 pounds Size of Saws, . . . 30 inches diameter, 4 inch thick Adjustable Angle Plates for Lower Table.

Pratt & Whitney Oil Pump.

F.oor Space,

 Height of Machine,
 24 inches

 Height to Lower Table,
 8 inches

 Size of Upper Work Table,
 7 ft. 3 in. x 2 ft. 3 in.

 Size of Lower Work Table,
 24 x 27 inches

 Mitre, 20 inch "1" beams standing up Available diameter of Saw above Tables, . . 10 inches Horse Power required, from 2 to 4



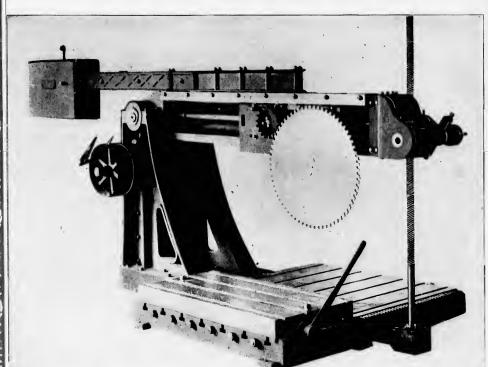
THE machine illustrated above was designed for architectural iron works, forge shops, frog and switch works and foundries. It has lately been entirely remodeled and has our new special design automatic feed. It is also equipped with angle plates for square cutting and false tables-not shown in cut. The machine as now constructed is especially adapted for architectural iron work, bridge work, and frogs and switches, on account of its ability to cut any

angle within its capacity. The automatic feed is changeable from fast to slow instantly while the saw is running. The carriage has a quick return and the work can be adjusted to position quickly by means of movable clamps.

All gearing is cut from the solid and made of the best cast steel. All bearings are adjustable for wear; the Saw Arbor is 21/4 inches in diameter and turns in phosphor bronze bushings.

The machine is built in a workmanship-like manner, and only the best material is used in its construction. The saw blade runs in special guides-lately adopted, and is lubricated by a Pratt & Whitney Oil Pump, which greatly prolongs the life of the blade. The machine is furnished complete with two 30-inch Saw Blades, special Grinding Machine for sharpening blades, Oil Tank and Pump, Wrenches, etc.





DETAILS

Weight, 18,000 pounds
Floor Space,
Height to Axis of Arm, 5 feet 6 inches
Vertical Feeding Speeds,
Longitudinal travel of Saw,
Surface of Lower Table,
Surface of Adjustable Table
Steel Sprocket, . 101/8 inches diameter ; 11/4 inches thick

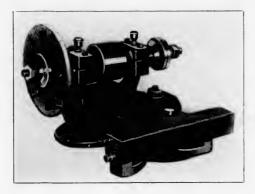
Speed of Driving Shaft,				180	to to	20	o revolutions
Diameter of Saw Blade,							. 36 inches
Radial Swing of Arm at	Axi	s,				4	feet 7 inches
Adjustable Sprocket,				-6	inc	h '	wear of Blade
Size of Main Shaft, .							27, inches
Size of Driving Pulleys,							18 x 6 inches
Size of Saw Arbor, .							215 inches

ADE especially for steel casting work, foundries, etc., for cutting off shrink heads up to 14 inches diameter, irregular-shaped castings, etc. Counterbalanced arm easily raised or lowered by special device. Automatic feed which can be changed while the machine is in operation, getting any feed required. Provided with Adjustable Table, the saw arbor being adjustable longitudinally in arm, making it possible to saw off two or more shrink heads without moving or re-clamping the work.

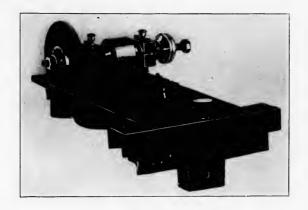
All gears are cut from solid steel. Driving Sprockets are made of special steel furnished by Park Bros, Steel Co. and are fully warranted.

The machine is adapted to a very wide range of work and can be easily operated by one man. Furnished under our full guarantee, complete with two Saw Blades, No. 2 Grinder, Clamps, Bolts, Tank for lubricant, Wrenches, etc.

Sawing Machine Grinders.



SPECIAL GRINDING MACHINE, No. 1



SPECIAL GRINDING MACHINE, No. 2

See instructions for (irinding Circular Saw Biades on opposite page.

Very Important

METAL SAW GRINDING INSTRUCTIONS

OOD RESULTS FROM ANY MACHINE are only obtained when the tool is kept in perfect condition.

A metal Saw must be kept reasonably sharp, have a proper clearance for each tooth and be perfectly round.

It does not require a blade of **Extreme Hardness** to saw ordinary steel or iron. Keep the blade well lubricated, run at a low speed, see that the work is firmly fastened to the cutting table and does not move.

GRINDING INSTRUCTIONS

ACH tooth must have a clearance of ${}_{6}{}_{4}{}_{4}$ inch. Place the saw blade on Grinding Table with pin in center hole of saw, bring front of tooth against the ${}_{16}{}_{6}{}_{16}{}_{$

It is also well when cutting hard stock to chamfer off the corners of the teeth, taking care not to destroy the clearance. It is absolutely necessary that these instructions are carefully followed out. Every blade that we send out is carefully tested before leaving our works and is of correct temper for cutting iron and steel (unless of unusually high carbon) when properly used. Blades when received from us are always properly ground. If blades dull quickly you are running or feeding too fast for the stock you are cutting.

We recommend the following lubricant for our saws : 10 pounds whale-oil soap, 15 pounds sal soda, 2, gallons best lard oil.

Shave the soap so that it will dissolve readily, put the whole in a clean 40-gallon cask and fill with water. When thoroughly dissolved it is ready for use. The whale-oil soap can be obtained from any wholesale druggist. For less quantities use the same proportion.

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THE Q & C COMPANY

A FEW PRACTICAL SUGGESTIONS TO USERS OF

COLD SAWING MACHINES

T IS our constant aim to co-operate cordially with all customers using our goods in order to not only avoid their having trouble or delays, but to insure their getting most and best results, and after years of experience, not only from personal tests at our Works, but having the advantage of suggestions made by the large number of customers using our Metal-Cutting Machines, we have thought it best to offer the following additional suggestions in regard to the care and use of Metal-Cutting Machines.

Although there are many of these machines in almost constant use, to a large number of metal workers the cold saw is an experiment and the conditions for its successful operation need to be carefully considered.

While the process of cutting metals with a cold saw is not difficult and can be readily understood and rapidly accomplished by careful effort, there are a few essential points which must be constantly borne in mind, the ignorance of or failure to observe which will minimize, if not actually defeat entirely, the advantages to be gained from the use of a metal saw.

The following points are of vital importance:

1st. The machines should be properly adjusted to the work; a Power Saw on good foundation, and the Portable Saws firmly and securely fastened to the rail.

2d. The machines should be fed according to the size and texture of the metal being cut, but never crowded.

3d. Proper lubrication is of great importance. Failure to get good results can often be traced to its absence.

4th. Good, careful operators are indispensable, increasing the results gained many fold and decreasing the possibility of unsatisfactory service or injury to the machine.

If for any cause you should not get satisfactory results from the use of any of our machines, we would be glad to have you carefully submit the matter to us, giving full details, as we feel positive we can overcome your difficulty to our mutual satisfaction. These machines are now used very extensively, effecting great saving in the matter of time, labor and expense as against old methods of metal cutting, and we will cheerfully furnish references to our customers upon request.

THE Q & C COMPANY

LIST OF SAW BLADES FOR Q & C SHOP SAWS, AND BRYANT PORTABLE AND POWER SAWING MACHINES

12-inch Blades for No. 1 Shop Saw and all machines using this length of blade.
14-inch X Grade Blades for No. 2 Shop Saw for cutting ordinary metals.
14-inch XX Grade Blades for No. 2 Shop Saw for very hard metals.
17-inch Blades for No. 4 Shop Saw for general work.
10-inch Circular Blades for No. 8 Shop Saw for general work.

These Blades are made of the Finest Material and are Recognized to be of Superior Quality.

16-inch Diameter Circular Blades for Nos. 5 and 5 A Portable Rail Saws.
20½-inch Diameter Circular Blades for Nos. 6 and 6 A Portable Rail Saws.
20½-inch Diameter Circular Blades for No. 10 Power Saw.
25-inch Diameter Circular Blades for Nos. 14 and 15 Power Saws.
30-inch Diameter Circular Blades For No. XX Power Saw.
36-inch Diameter Circular Blades for No. XXXXX Power Saw.

Ail Circular Biades are warranted against defection in material and improper tempering, and will be replaced if not found satisfactory, provided claim is made within 10 days from purchase.

RECENT IMPROVEMENTS IN OUR POWER SAWING MACHINES

E have made recent improvements in the mechanism of all of our Power Sawing Machines which greatly reduce the cost of operation.

Our latest Power Saws are equipped with adjustable sprockets, which allow a wear of nearly 6 inches on the diameter of the saw blade without necessitating a change of sprocket or regumming.

The size of the sprockets have been greatly reduced to increase the leverage and thereby reduce the amount of power required, and have also been increased in thickness to give greater strength and more wearing surface.

Sprockets are made of the best crncible steel and fully gnaranteed, and our principle of driving the saw blade by the periphery, which minimizes the amount of power necessary as well as stiffening the blade when in use, we are confident will be appreciated by our customers.

A FEW OF MANY USERS OF

BRYANT POWER SAWING MACHINES

.

AMERICAN BRIDGE WORKS,	Chicago, Ill.
AMERICAN BRAKE COMPANY,	, St. Louis, Mo.
BASS FOUNDRY AND MACH. COMPANY,	Ft. Wayne, Ind.
BANCROFT, CHAS. A.,	. Philadelphia, Pa.
CRANE ELEVATOR COMPANY,	Chicago, 1ll.
	Albany, N. Y.
DETENDER, J. A. & P. E.,	Milwankee, Wis.
DETROIT DRY DOCK COMPANY,	. Detroit, Mich.
	. East St. Louis, Mo.
ECENTERS, C. G. & Co.,	New York City, N. Y.
FRASER & CHALMERS,	Chicago, 111.
FALK MANUTACULRING COMPANA,	. Milwankee, Wis.
GLOBE IRON WORKS, A	. Chicago, III,
GOODVEAR SHOE MACHINERY COMPANY,	(1) 1
HERRING, HALL, MARVIN CO., .	. Cincinnati, Ohio,
HILTON BRIDGE COMPANY,	. Albany, N. Y.
LLINOIS STEEL COMPANY,	Bay View, Wis.
IRONION STRUCTURAL STEEL COMPANY,	Duluth, Minn.
JACKSON ARCHITECTURAL IRON WORKS,	New York City, N. Y.
JUDSON MANIFACTURING COMPANY,	. Oakland, Cal.
Кила, Тиов. W. & Co.,	New York City, N. Y.
KANSAS CITA CABLE RAILWAA COMPANA,	Kansas City, Mol
LASSIG BRIDGE AND IRON WORKS,	Chicago, Ill.
LISTER, R. A. & Co.,	. Dursley, England.
MORAN BROS.,	Seattle, Wash.
MURRAY HILL IRON WORKS,	. New York City, N. Y.
NEW ENGLAND STRUCTURAL COMPANY,	East Everett, Mass.
PAIGE IRON WORKS,	Chicago, Ill.
PANTON & VIERLING,	Omaha, Neb.
ROCHESTER BRIDGE COMPANY,	. Rochester, Ind.
	. Hilburn, N. Y.
SARGENT COMPANY,	
ST. PAUL FOUNDRY COMPANY,	St. Paul, Minn.
TOLEDO BRIDGE COMPANY,	. Toledo, Ohio.
TERRE HAUTE CAR AND MANIFACTURING COMPANY, .	Terre Haute, Ind.
UNITED STATES NAVY YARDS,	Washington, D. C.
UNION STOCK YARDS TRANSIT COMPANY, .	Chicago, 111.
VULCAN IRON WORKS,	
VERMONT CONSTRUCTION COMPANY.	
WISCONSIN BRIDGE AND IRON COMPANY,	. Milwankee, Wis.

A FEW STEAM RAILROADS USING

THE BRYANT PORTABLE RAIL SAWS

A T. & S. F. R'Y CO. ATLANTIC COAST LINE. BOSTON & ALBANY R. R. BALTIMORE & OHIO R. R. BOSTON & MAINE R'Y CO. C. & N. W. R. R. CO. C. N. O, & T. P. R. R. CO. CANADIAN PACIFIC R. R. D. M. & N. R. R. DELAWARE & HUDSON R'Y

DULUTH & IRON RANGE RY. FITCHBURG RY CO FORT WAYNE & ELMWOOD RY. GRAND TRUNK RY. GREAT NORTHERN RY. GEORGIA R R. CO. HOUSATONIC RY CO. HLINOIS CENTRAL RY CO INDIANAPOLIS & VINCENNES RY CO. INDIANA, ILLINOIS & IOWA RY.

JACKSONVILLE, ST A. & IND RIVER R. R. LEHIGH VALLEY RY. L S & M. S. RY CO MICHIGAN CENTRAL RY CO MAINE CENTRAL R R. MISSOURI PACIFIC R. R. NEW YORK CENTRAL & HUDSON RIVER R. R. NY N. H. & H. R. R. NORTHERN PACIFIC R. R. OMAHA & ST. LOUIS R. R. PENNA. R. R. CO. PHILADELPHIA & READING R. R. ST. LOUIS & SOUTHWESTERN RY

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SOUTHERN PACIFIC R/R TEXAS PACIFIC RY TERAINAL ASS N OF ST LOUIS UNION PACIFIC SYSTEM WABASH RY W & L E RY CO

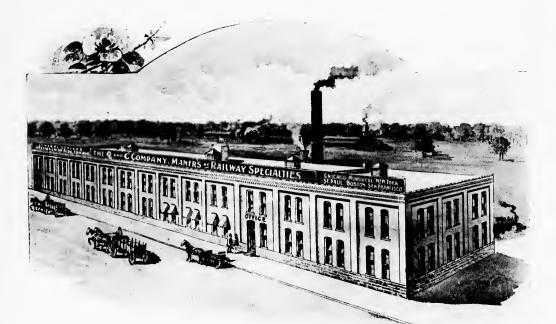
Many Roads use from Three to Six Machines Distributed Over Their Lines.

A FEW OF MANY

STREET RAILWAYS USING OUR PORTABLE RAIL SAWS

ALBANY STREET RAILWAY COMPANA,		Albany, N. Y.
BROADWAY AND SEVENTH STREET RAILWAY,		New York City.
BROOKLAN HEIGHTS RAILWAY COMPANY,		Brooklyn, N. Y.
CHICAGO CITY RAILWAY COMPANY,		Chicago, Ill.
CITIZENS STREET RAILWAY COMPANY,		Memphis, Tenn.
DETROIT CITIZENS STREET RAILWAY,		Detroit, Mich.
		Denver, Col.
DES MOINES CITY STREET RAILWAY COMPANY,		Des Moines, Iowa.
ERIE ELECTRIC MOTOR COMPANY,		Erie, Pa.
FT. WAYNE & BELLE ISLE RAILWAY,		Detroit, Mich.
GALVESTON CITY RAILWAY COMPANY,		Galveston, Texas.
HOUSTON CITY RAILWAY COMPANY,		Houston, Texas.
		Holyoke, Mass.
		Indianapolis, Ind.
JERSEN CITY & BERGEN RAILWAY COMPANY,		[ersey City, N.].
	 ,	Kansas City, Mo.
		Louisville, Ky.
Los Angeles Street Rahlway Company,		Los Angeles, Cal.
MANHATTAN RAILWAY COMPANY (L),		New York City.
METROPOLITAN W. S. RAHWAY COMPANY (L),		Chicago, 111.
MARKET STREET CABLE COMPANY,		San Francisco, Cal.
		New Orleans, La.
NASHVILLE STREET RAILWAY COMPANY,		Nashville, Tenn.
NASSAU ELECTRIC RAILWAY COMPANY,		Brooklyn, N. Y.
OMAHA AND COUNCIL BLUFFS RAILWAY COMPANY,		Omaha, Neb.
PACIFIC IMPROVEMENT COMPANY,		San Francisco, Cal.
Rochester Street Railway Company,		Rochester, N. Y.
ROCKFORD CITY RAILWAY COMPANY,		Rockford, Ill.
SOUTH CHICAGO CITY RAILWAY COMPANY,		Chicago, Ill.
		Springfield, Mass.
SCRANTON TRACTION COMPANY,		Scranton, Pa.
	 •	Salt Lake City, Utah.
TORONTO STREET RAILWAY COMPANY,		Toronto, Ont.
TERRE HAUTE ELECTRIC RAILWAY COMPANY,		Terre Haute, Ind.
UNION STREET RAILWAY COMPANY,		New Bedford, Mass.
UNION RAILWAY COMPANY,		Providence, R. I.
WEST END STREET RAILWAY COMPANY,		Boston, Mass.
West Chicago Street Railway Company,		Chicago, Ill.
WILMINGTON CITY RAILWAY COMPANY,		Wilmington, Del.
Youngstown Street Railway Company, .		Youngstown Ohio.
presented of Koler Kallout Controls,		Congstown Onto.

The Q & C Company's Works



Chicago Heights, Illinois

All goods consigned to our company, either by express or freight, should be sent direct to our works as above, express receipts and bills of lading forwarded to our

GENERAL OFFICES:

Western, Union Building, Jackson Boulevard and Clark Street

CHICAGO, ILLINOIS



TRADE MARK



A QUARANTEE OF

GOOD WORKMANSHIP AND RELIABILITY

