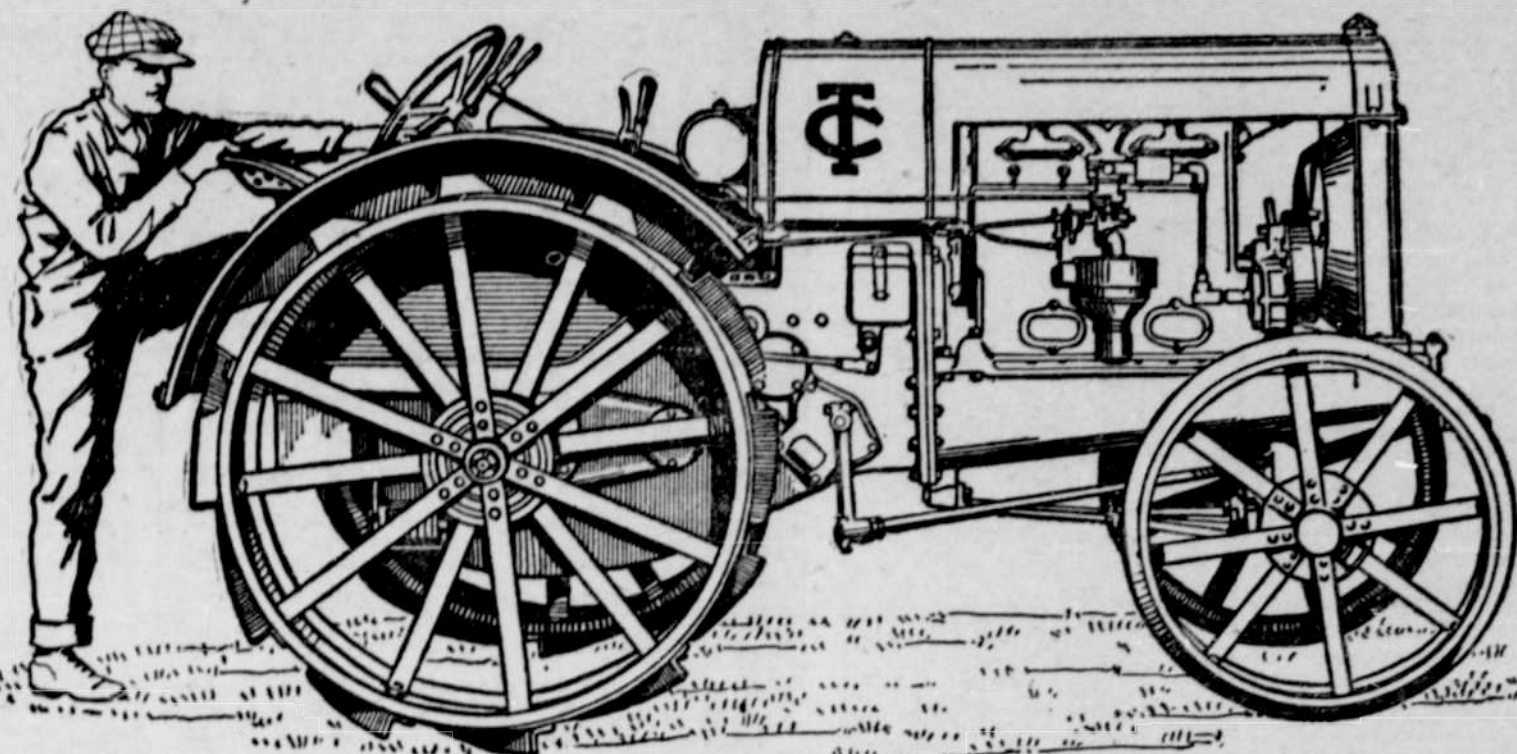


# TWIN CITY

12-20 Kerosene Tractor with 16-valve engine

TWENTY years of growth has made the Minneapolis Steel and Machinery Company the largest machinery manufacturing organization in the Northwest today.

THE fabricated steel work for many great buildings and bridges, the large Corliss steam engines that turn the wheels of factories throughout the continent, as well as heavy duty Muenzel gas engines were designed and built by this company.



ALL this broad practical experience, with expert knowledge of stresses and strains, metallurgy internal combustion engineering is now concentrated upon the manufacture of TWIN CITY tractors and Threshers.

Communicate with our office for Daily Demonstration

## BRIEF SPECIFICATIONS OF TWIN CITY "12-10"

|                                    |                            |
|------------------------------------|----------------------------|
| Tractor H. P.                      | 12                         |
| Belt H. P. on Kerosene             | 20                         |
| Motor—Stroke Cycle                 | 4                          |
| Cylinders—number                   | 4                          |
| Cast                               | En Bloc                    |
| Cylinder Walls                     | Removable Sleeves          |
| Bore                               | 4 1/4"                     |
| Stroke                             | 6"                         |
| R. P. M.                           | 1,000                      |
| Number Main Bearings               | 1                          |
| Diameter and length—rear           | 2 3/4 x 4                  |
| Diameter and length—center         | 2 11-16 x 2 3/4            |
| Diameter and length—front          | 2 1/4 x 3 1-16             |
| Crank Pin Diameter and Length      | 2 3/4 x 2 3/4              |
| Piston Pin Diameter                | 1 1/4                      |
| Number Cam Shafts                  | 2                          |
| Diameter Cam Shaft                 | 1 1/4                      |
| Number Intake Valves               | 2                          |
| Number Exhaust Valves              | 2                          |
| Location of Valves                 | In Head                    |
| Cylinder Head                      | Removable                  |
| Oiling System                      | Gear Pump Pressure         |
| Crankshaft                         | Counterbalanced            |
| Speeds—forward                     | 2.2 and 2.9 miles per hour |
| Speeds—reverse                     | 1.75 miles per hour        |
| Weight—without fuel, water or lugs | 4,000 lbs.                 |
| Wheel Base                         | 84"                        |
| Diameter of Drive Wheels           | 50"                        |
| Width of Drive Wheels              | 12" each                   |
| Number of Drive Wheels             | 2                          |
| Diameter of Front Wheels           | 34"                        |

|  |   |
|--|---|
| Width of Front Wheels                                | 5 1/2" each                             |
| Type of Rear Axle                                    | Live                                    |
| Type of Front Axle                                   | Automobile                              |
| Transmission Gears                                   | Forged Steel, Hardened and Heat Treated |
| Transmission Shafts                                  | Forged Steel, Heat Treated              |
| Final Drive—Spur Gear, enclosed in Transmission Case | Running in Oil                          |
| Transmission—Type                                    | Sliding Spur Gear                       |
| Number of Clutches                                   | 1                                       |
| Type of Clutch                                       | Single Disc—Dry Plate                   |
| Transmission Bearings                                | Hyatt High Duty                         |
| Thrust Bearings                                      | Ball                                    |
| Type of Radiator                                     | Cellular                                |
| Radiator Construction                                | Truck Type Cast Tanks                   |
| Water Capacity                                       | 8 gals.                                 |
| Size of Fan  | 20" diam.                               |
| Fuel Capacity—Kerosene                               | 23 gals.                                |
| Fuel Capacity—Gasoline                               | 3 1/2 gals.                             |
| Diameter of Belt Pulley                              | 16"                                     |
| Width of Belt Pulley                                 | 6"                                      |
| Revolutions per minute                               | 650                                     |
| Belt Speed, feet per minute                          | 2,700                                   |
| Height of Drawbar                                    | 16"                                     |
| Total Overall Length                                 | 134"                                    |
| Total Overall Width                                  | 63"                                     |
| Total Overall Height                                 | 63 1/4"                                 |

### EQUIPMENT

Bosch High Tension Magneto with Impulse Starter and Adjustable Coupling.  
Lubrication—Pressure Oil Gauge.  
Air Cleaner.  
Honey Kerosene Carburetor.  
"Sylphon" Thermostatic Control of Cooling Water.

173 South  
Com. St.

# Oregon Traction Co.

Salem,  
Oregon

Mr. and Mrs. E. Roy and Mr. and Mrs. Forrest Mack motored to Portland Sunday where they visited at the home of A. E. Roy. Mr. and Mrs. Roy went to Vancouver where she visited at the home of her daughter, Mrs. Dr. Watson, for a couple of weeks.

Thursday and Friday, "Those Who Pay" by the same author as Civilization, at the Star Theatre.

1. That this is a thrilling incident of Germany.
2. That it shows how Germany was responsible for the death of millions of people.
3. How she ravished six peaceful nations.

4. How she destroyed over 100,000,000 dollars worth of property.  
5. The story is built on historical facts and is continued right up to the end of the war.  
6. That it was being shown to the Peace Delegates in Paris to give them a concrete idea of just what has been done by this criminal.

"Why Germany Must Pay" is the title of this picture to be shown at the Star Theatre soon.

### ROCK POINT

Mr. and Mrs. Ed. Doerfler were Salem visitors Wednesday.

George Glover and George Schmitt are enjoying an outing on Geo. Glover's ranch on the coast.

E. C. Downing and family were Salem shoppers Saturday afternoon.

Mr. and Mrs. C. J. Hunt and daughter, Rachael, spent the week end in Portland where Rachael is taking treatment.

Mr. and Mrs. Wilbur Dove of Liberty spent Sunday at the E. C. Downing home.

B. F. Fresh of Stayton spent Sunday with his brother, F. B. Fresh.

"One is honored by the privilege of membership in the Red Cross, and blessed in being permitted to make any kind of contribution to its work."—William Fraser McDowell, Presiding Bishop, Methodist Episcopal Church.

"The Red Cross is America at her best. . . . Money given to the Red Cross is not an investment, nor is it a charity. It is a sacrament."—Charles A. Eaton, Pastor Fifth Ave. Baptist Church, N. Y.

### Material for Explosive.

As to the source of the toluol needed for explosives, it is pointed out that there has been recently a great increase in the number of by-product coke ovens in this country. However, says the Scientific American, if 20,000,000 tons of coke are made in these ovens during the present year we shall get from this source only 10,000,000 gallons of toluol, which is about one-fourth as much as the government estimated it would need for munitions. Another promising measure recently inaugurated is the stripping of city gas of this material, which can be spared without any serious detriment to the gas, and amounts to about .04 gallon for each 1,000 feet of gas. It is estimated that ten of the largest city gas plants of the country will yield about 10,000,000 gallons of toluol.

"I wish to express to the millions of Americans, who have made the work of the American Red Cross possible, the deep gratitude of my people."—The young King Alexander of Greece.

"I have confident hope that the American Red Cross' world-wide plans for charity and mercy will be largely realized, bringing the grateful appreciation of suffering millions as a partial recompense, and a greater reward, the richest blessings of God."—Cardinal Gibbons.

study for a Painter suggested in incident in the Early Life of Daniel Webster.

When Daniel Webster was eight years old he saw in a country shop a cotton handkerchief with something printed on both sides of it. He gave his whole stock of hoarded pennies to secure it and absorbed its contents that night with his keen dark eyes, on his father's kitchen floor, by the light of the roaring chimney fire. What painter will be the first to make that scene perpetual in our country's history and art? It was the Constitution of the United States, just then in the dawn of its beneficent power under the lead of President Washington, that the New Hampshire lad was then stamping on his memory. He told the story himself in 1850, and archly said: "I have known more or less of that document ever since." . . . Forty years from that winter came the great Hayne debate. But I would travel farther to see a master's picture of the lad, reading the Constitution in the rude home on the edge of the northern wilderness, than to see Healey's great painting of the orator in the senatorial struggle against the theory and passions of secession; as I would go farther to see a picture of the springs of the Amazon, far up under the cold white splinters of the Andes, than the most adequate representation of the imperial river's tropical course.

### LARGEST OPAL IS WORTH QUARTER MILLION



The world's largest opal was discovered in wartime but unannounced for various reasons. It is valued at over \$250,000. It weighs an ounce over a pound, is almost four inches long by three and a quarter inches wide and an inch and a quarter thick. The jewel is flawless. Photo shows Miss Doris Kenyon holding the opal in the office of the secretary of interior at Washington, D. C.

## Read our Advertisements

