

The background features a dark blue gradient with faint, light-colored technical diagrams. On the left side, there is a large circular scale with numerical markings from 140 to 260 in increments of 10. Several circular diagrams with arrows and dashed lines are scattered across the background, suggesting mechanical or engineering themes.

THE MOST POWERFUL FREIGHT LOCOMOTIVES

SAVINA ELENA D-115

MODERN LOCOMOTIVES



GOAL AND TASKS

Goal: Consider the most powerful locomotives in the world

Tasks:

- Explore external sources
- Find out the power of each locomotive
- Find suitable images
- Make the top seven most powerful locomotives

ASEA SJ DM3 FOR MALMBANAN, 9,655 HORSEPOWER



As you'd expect for a train used by Swedish State Railways to pull iron ore south from the arctic circle to be processed, the DM3 is a mighty beast, making near 10,000 horsepower. Adorable, most of these locomotives are named: Viktor, Baron and Josefina still operate today.

SLM RE 6/6 FOR SWITZERLAND SBB, 9,705 HORSEPOWER



This locomotive also used on the Malmbanan, or Iron Ore Line

SINARA GT1S FOR RUSSIAN RAILWAYS, 11,285 HORSEPOWER



Since it debuted in 2008, the Sinara GT1s has held two very important titles: the world's most powerful gasoline turbine locomotive and the world's most powerful internal-combustion locomotive.

NOVOCHERKASSK VL85 FOR RUSSIAN RAILWAYS, 12,550 HORSEPOWER



The VL85 is among the highest echelon of motors that patrol Russia's famous East Siberian Railways. With over 12,000 horsepower.

DATONG ELECTRIC LOCOMOTIVE HXD2 FOR CHINA RAILWAYS, 13,410 HORSEPOWER



the Datong Hxd2 can carry over 7,000 tons of coal and are designed to do so even at temperatures of -40 degrees through the winter.

BOMBARDIER IORE FOR MALMBANAN, 14,483 HORSEPOWER



Iron ore is about as heavy a load as a train can bear. The IORE locomotives are built for Swedish mining company, in charge of railways, and spend their days hauling hundreds of tons of mined rock.

4ES5K, RUSSIAN RAILWAYS. 17,838 HORSEPOWER



And here is the leader among freight locomotives - the mighty 4-section 4ES5K, developed in Novocherkassk and produced since 2004. The family also includes less powerful 2- and 3-section models. But this giant is able to pull almost anything!

The background is a dark blue gradient with a subtle pattern of white stars. Overlaid on this are several faint, light blue technical diagrams. In the top right, there is a large circular diagram with concentric rings and radial lines, resembling a scale or a gauge, with numbers from 80 to 210. In the bottom right, there is a smaller circular diagram with concentric rings and a dashed outer boundary. In the bottom left, there is another circular diagram with concentric rings and a dashed outer boundary. In the top center, there is a small circular diagram with a dashed outer boundary and a solid inner boundary.

Thanks for your attention!