

# CR800 series hybrid





CR810 – primary crushing with pre-scalping



# Wide range of applications

## SANDVIK HYBRID

Hybrids are used for primary and secondary crushing of soft and medium-hard materials that also have the tendency to be wet and sticky.

## FEED MATERIALS

Limestone, overburden, chalk, gypsum, marl, clay, different types of ore, lignite, coal, bauxite, different types of phosphates and similar raw materials.

## MODE OF OPERATION

The feed material will be crushed between the counter-rotating rolls using the principle of compression. The crushing rolls are driven individually by electric motors with coupling and gears. They are equipped with an advanced hydraulic gap adjustment system with integrated overload protection to realize different product sizes and to protect the machine against foreign bodies within the feed material.

## SANDVIK SERVICE

Sandvik's global network provides reliable and efficient customer support. Spare parts availability and a comprehensive range of services allow improved productivity and maximized plant efficiency.

This concept is already implemented in the design phase of the machines. Fast and easy replacement of components and wear parts, including the crushing segments or picks, minimizes unplanned plant downtimes.



crushing roll

hydraulic adjustment

crushing chamber

# Concentrated power intelligent control

The Sandvik hybrid CR810 features a compact design as a result of the roll diameter made possible by the aggressive tooth geometry. Thus, minimum space requirements and the distinctive advantages of a classic double roll crusher, such as hydraulic gap adjustment and overload protection, are combined in one machine. Furthermore, the hybrid is able to compensate peaks with “energy storage” in the flywheels.

## ADVANTAGES

- Compact design
- Minimum generation of unusable fine material
- High throughput capacities up to 12000 mtph (13228 stph)
- Hydraulic gap adjustment system
- Overload protection
- Processing of wet and sticky materials

## CRUSHING ROLLS (1)

- The CR810 is equipped with crushing rings, segments or crushing picks, depending on the application and feed material characteristics

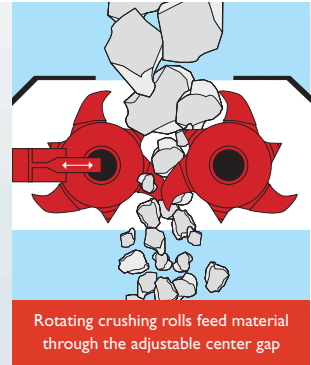
## DRIVE (2)

- The drive consists of electric motors with coupling and gears
- It is also designed for reverse operation
- It uses standard components

## SPECIFICATION

- Feed size: up to 2500 mm (99 in)
- Product size: 80 to 400 mm (3 to 16 in)
- Throughput capacity: up to 12000 mtph (13228 stph)
- Reduction ratio: 1:3 up to 1:6
- Installed power: up to 2 x 1250 kW (1680 hp)

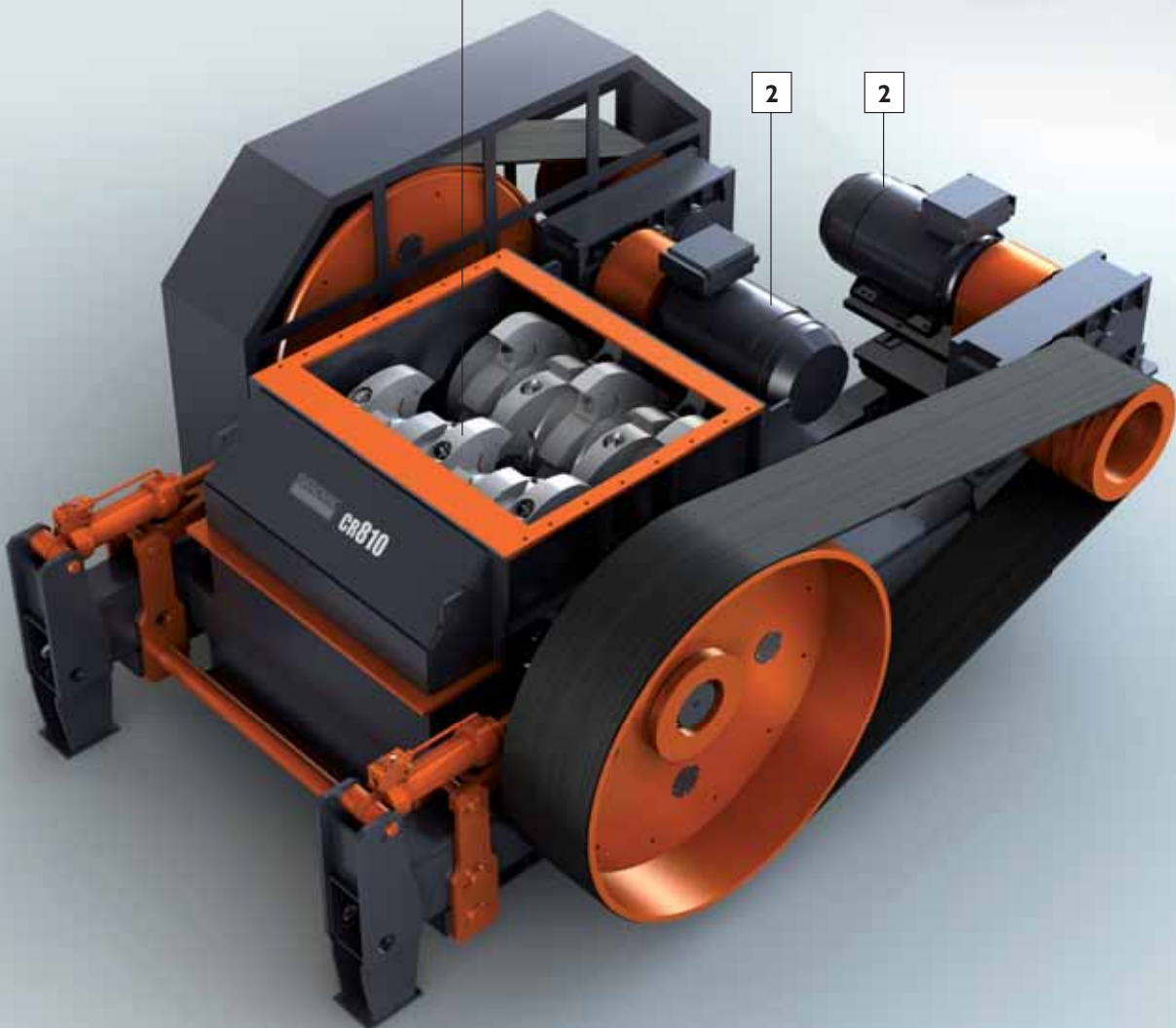
CR810 hybrid



1

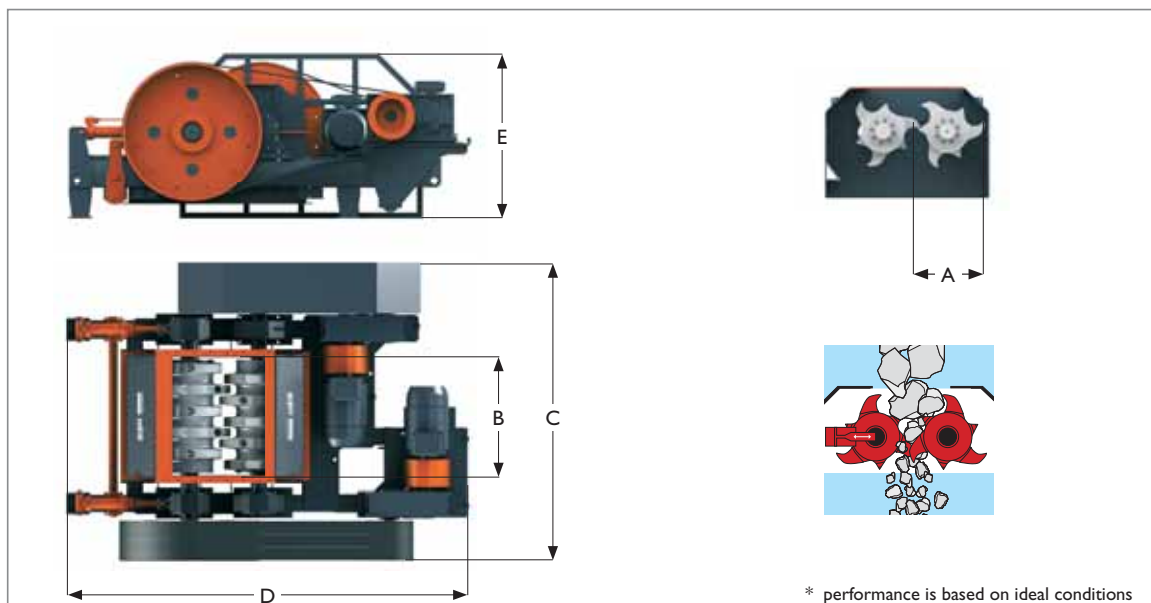
2

2



# Technical data

## hybrid v-belt drive

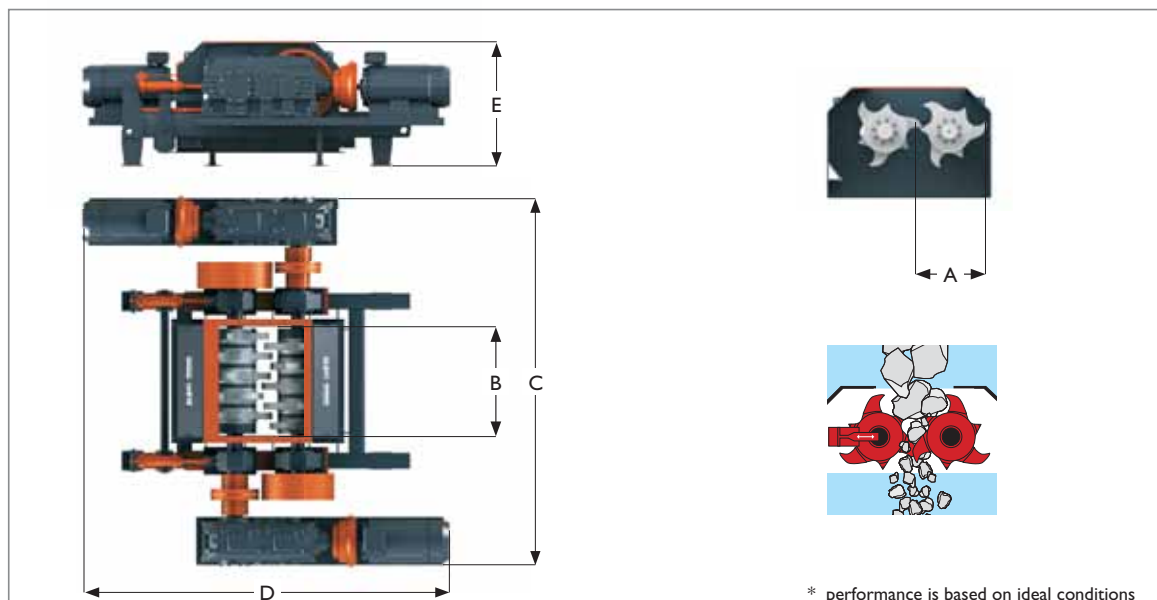


\* performance is based on ideal conditions

hybrid	weight kg U.S. tons	max. feed size mm in	max. capacity mtph stph	A* mm in	B* mm in	C* mm in	D* mm in	E* mm in
CR810/08-20	28000–30000 30.86–33.07	600 23.62	2000 2205	800 31.5	2000 78.74	4300–4500 169.29–177.17	4900–5500 192.91–216.54	2000 78.74
CR810/08-25	35000–40000 38.58–44.09	600 23.62	2500 2756	800 31.5	2500 98.43	4500–4700 177.17–185.04	5400–5900 212.6–232.28	2000 78.74
CR810/08-30	40000–45000 44.09–49.6	600 23.62	3000 3307	800 31.5	3000 118.11	5500–5700 216.54–224.41	5500–6000 216.54–236.22	2000 78.74
CR810/10-15	21000–25000 23.15–27.56	800 31.5	2000 2205	1000 39.37	1500 59.06	3800–4000 149.61–157.48	5000–6250 196.85–246.06	2100 82.68
CR810/10-20	30000–35000 33.07–38.58	800 31.5	2650 2921	1000 39.37	2000 78.74	4500–4700 177.17–185.04	5000–6500 196.85–255.91	2100 82.68
CR810/10-25	40000–45000 44.09–49.6	800 31.5	3350 3693	1000 39.37	2500 98.43	4700–4900 185.04–192.91	5500–6800 216.54–267.72	2100 82.68
CR810/10-30	50000–55000 55.12–60.63	800 31.5	4000 4409	1000 39.37	3000 118.11	5500–5700 216.54–224.41	5500–7000 216.54–275.59	2100 82.68
CR810/12-15	30000–38000 33.07–41.89	1200 47.24	3000 3307	1200 47.24	1500 59.06	3800–4000 149.61–157.48	5900–6250 232.28–246.06	2200 86.61
CR810/12-20	38000–45000 41.89–49.6	1200 47.24	4000 4409	1200 47.24	2000 78.74	4100–4300 161.42–169.29	6100–6350 240.16–250	2200 86.61
CR810/12-25	50000–60000 55.12–66.14	1200 47.24	5000 5512	1200 47.24	2500 98.43	4400–4600 173.23–181.1	6300–6550 248.03–257.87	2200 86.61
CR810/12-30	70000–80000 77.16–88.18	1200 47.24	6000 6614	1200 47.24	3000 118.11	4700–4900 185.04–192.91	6300–6600 248.03–259.84	2200 86.61

# Technical data

## hybrid direct drive



\* performance is based on ideal conditions

hybrid	weight kg U.S. tons	max. feed size mm in	max. capacity mtph stph	A* mm in	B* mm in	C* mm in	D* mm in	E* mm in
CR810/14-20	65000–75000 71.65–82.67	1600 62.99	5350 5897	1400 55.12	2000 78.74	7200–7700 283.46–303.15	6000–6400 236.22–251.97	2900 114.17
CR810/14-25	75000–85000 82.67–93.7	1600 62.99	6650 7330	1400 55.12	2500 98.43	7700–8200 303.15–327.83	6400–6700 251.97–263.78	2900 114.17
CR810/14-30	85000–95000 93.7–104.72	1600 62.99	8000 8818	1400 55.12	3000 118.11	8200–8700 322.83–342.52	6700–7000 263.78–275.59	2900 114.17
CR810/14-35	95000–100000 104.72–110.23	1600 62.99	9300 10251	1400 55.12	3500 137.8	8700–9200 342.52–362.2	7000–7300 275.59–287.4	2900 114.17
CR810/14-40	100000–110000 110.23–121.5	1600 62.99	10650 11740	1400 55.12	4000 157.48	9200–10500 362.2–413.39	7500–7800 295.28–307.09	2900 114.17
CR810/20-25	140000–160000 154.32–176.37	1600 62.99	6650 7330	2000 78.74	2500 98.43	9900–10400 389.76–409.45	8500–8800 334.65–346.46	3700 145.67
CR810/20-40	220000–240000 242.51–264.55	1600 62.99	10650 11740	2000 78.74	4000 157.48	11400–11800 448.82–464.57	8900–9000 350.39–354.33	3700 145.67

Sandvik is a high-technology engineering group with world-leading positions in selected areas – tools for metal working, advanced materials technology, and mining and construction. We employ more than 50000 people and are represented in 130 countries.

Sandvik Mining and Construction represents one third of the overall Sandvik Group and serves a broad range of customers in construction, mineral exploration, mining and bulk materials handling. Our construction expertise covers quarrying, tunnelling, demolition, recycling and other civil engineering applications. Our mining products and services support customers on the surface and underground including coal, iron, copper and gold mining.



SANDVIK MINING AND CONSTRUCTION · WWW.SANDVIK.COM

Sandvik is a registered trademark of the Sandvik Group. © 2009 Sandvik. SFM-B-P-CHYB  
Performance is based on ideal conditions. Sandvik reserves the right to amend specifications without notice.