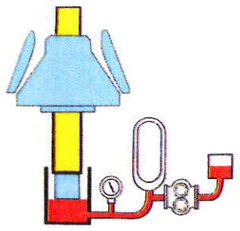
The Hydroset system

Hydroset control

This consists of a robust hydraulic jack which supports and adjusts the mainshaft assembly. Setting adjustment can be carried out by one man in just a few seconds. Hydroset control has been successfully used for several decades.

Setting decrease: Oil is pumped from the oil tank to the Hydroset cylinder and raises the mantle until the desired setting is obtained.

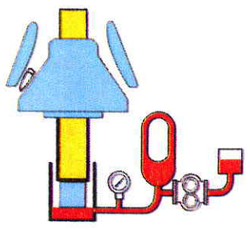
Setting increase: Oil is allowed to flow back to the oil tank and the mantle is lowered until the desired setting is obtained.



Automatic overload protection

Built in to the Hydroset system is an overload protection device which allows the mantle to sink to permit passage of scrap iron and other uncrushable materials. When the uncrushable material has passed through the crushing chamber the mantle is automatically raised to its original position.

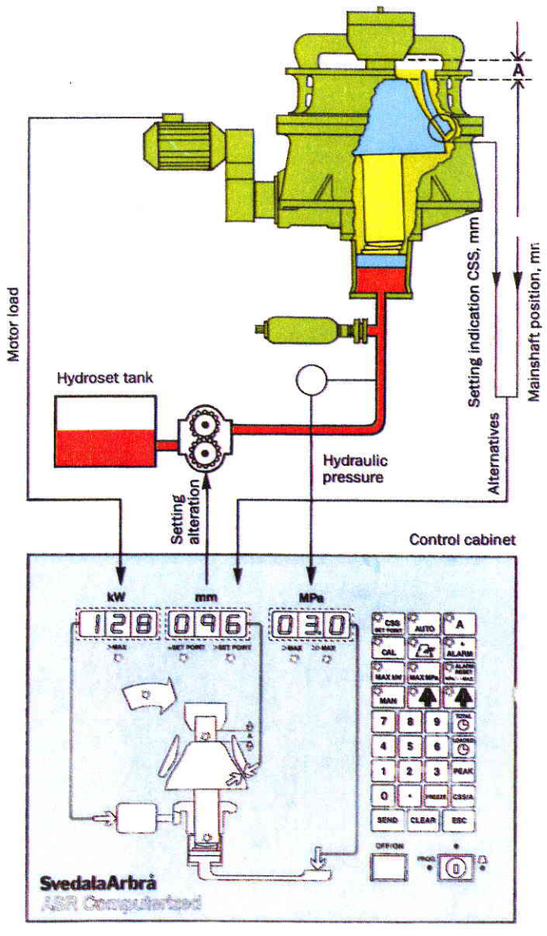
Oil is forced out from the Hydroset cylinder to the accumulator so that the mantle sinks to allow uncrushable objects to pass through the crusher. The gas pressure in the accumulator forces the oil back to the Hydroset cylinder as soon as the object has left the crushing chamber.



Automatic setting regulation

Svedala-Arbrå can supply an automatic setting regulation system as an optional extra for Hydrocone and Superior crushers. The system automatically monitors the motor-power, the Hydroset pressure and the setting, and automatically regulates the latter in accordance with the load on the crusher. This gives optimum crusher utilization and considerably improved crushing results.

A detailed description of the automatic setting regulation system is available in folder B 223.014 E.



Quick-emptying crushing chamber

If a sudden power failure stops the crusher under load, the mantle can be lowered so that the crushing chamber can be easily emptied. The concave ring can easily be rotated to even out wear.

We reserve the right to alter data without prior notice.

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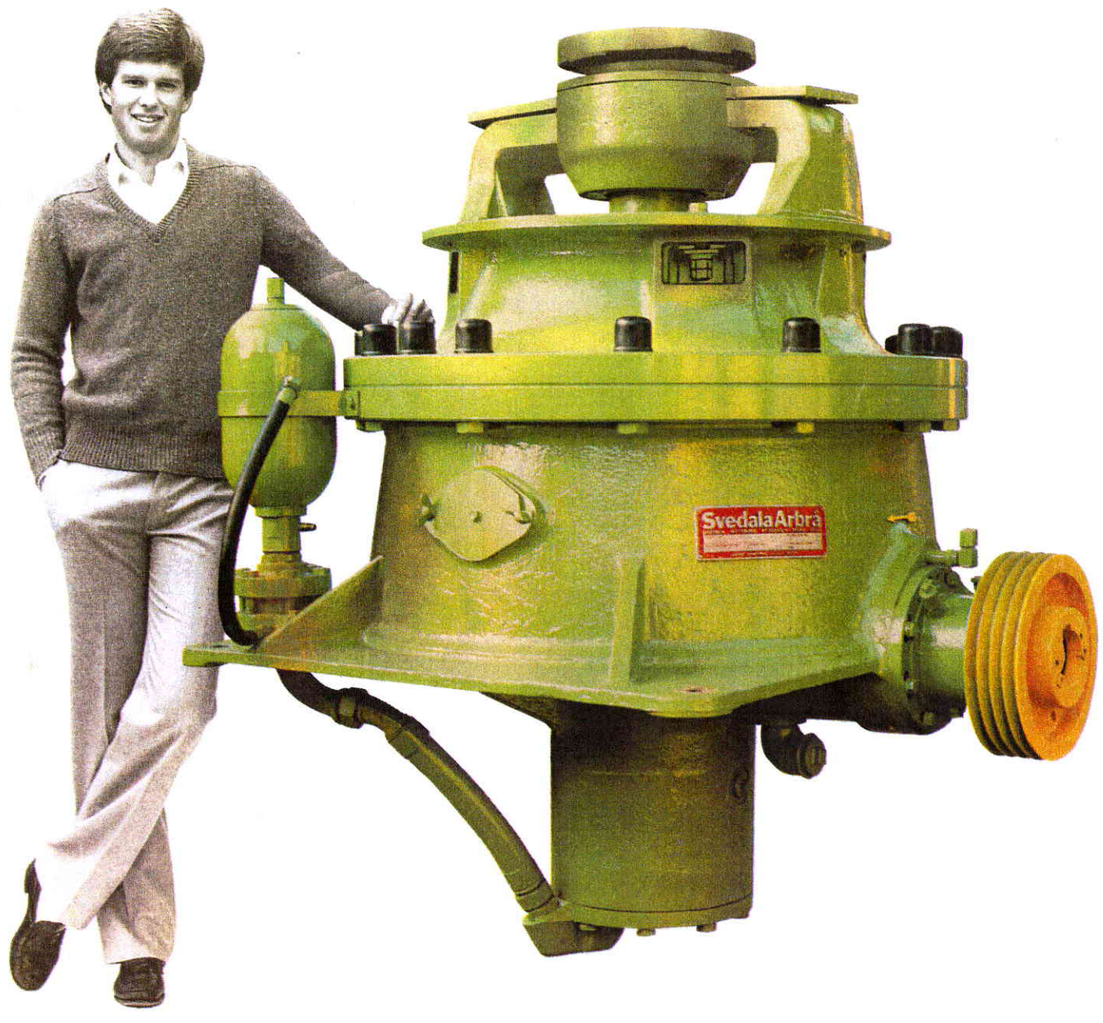
H-200 Hydrocone



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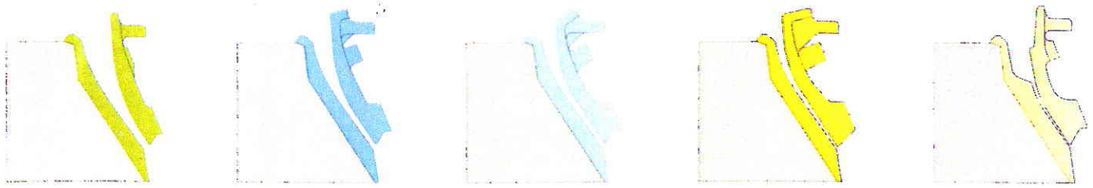


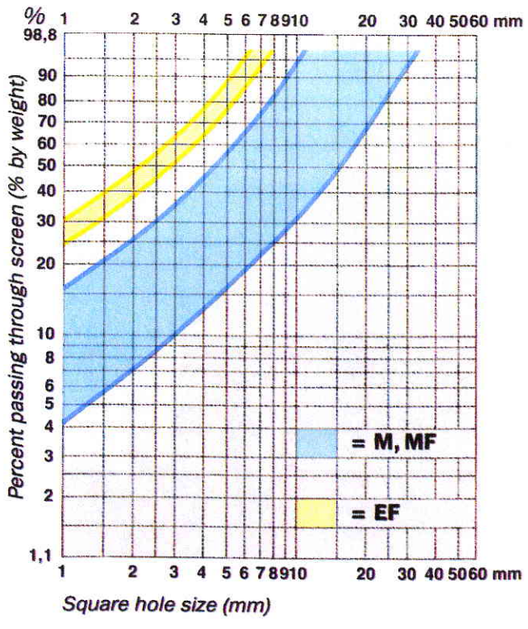
Coarse, C *Medium, M* *Medium fine, MF* *Fine, F* *Extra fine, EF*

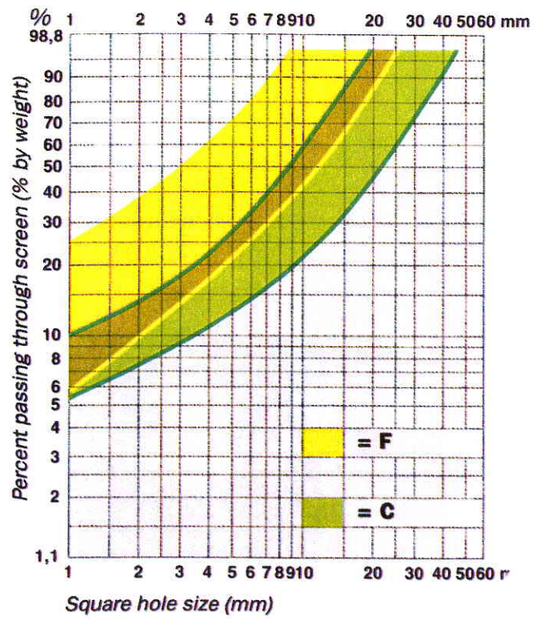
Selection of crushing chamber

You can choose between five standard crushing chambers: C (coarse), M (medium), MF (medium fine), F (fine) and EF (extra fine).

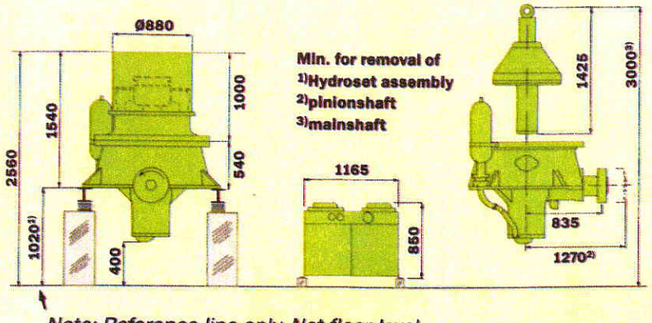
Product curve

Over the years we have accumulated a lot of data about product curves, and for most applications, the curves given below give good approximations of the product which can be expected.





Dimensions and weights



Note: Reference line only. Not floor level.

Approximate weights in kg

Topshell assembly	1 400
Bottomshell assembly	1 825
Mainshaft assembly	1 175
Total weight	5 300
Oil tank with lubricating system	275

Dimensions are intended only as a guide for preliminary planning of the installation and should not be used for the construction of foundations etc. Dimensions are given in mm.

Approximate capacities in MTPH

The capacities given below are approximate and apply for **open circuit** crushing of dry material with a bulk density of 1600 kg/m^3. It is assumed that material finer than the crusher's C.S.S. is removed from the feed.

Ask Svedala-Arbrå for advice on the selection of crushing chamber, motor and setting since the performance of the crusher is affected by many factors, such as reduction ratio, the material's crushability (W_i), the moisture content and size analysis of the feed, and the design of any recrushing circuit, etc. etc.

Crusher	Max. feed size mm		Approx. motor power kW	C.S.S. (Close side setting) mm								
	C.S.S.[1]	H.S.[2]		5	6	8	10	13	16	19	22	25
200 C	60-65	95	45-90				47	63	85	94	103	112
200 M	40-45	65	37-75		25	35	47	63	68			
200 MF	30-35	50	45-75		36	49	61	67				
200 F	20-25	35	45-75	30	41	53	57					
200 EF		18	75	Normally up to 35 t/h with a product containing 80% smaller than 5 mm.								

[1] *C.S.S. = setting of foregoing crusher through which feed material has passed.*

[2] *H.S. = size of square hole in screen deck through which feed material has passed.*

The H-200 Hydrocone can also be supplied as a portable unit (illustrated) or mobile unit. The basic portable unit is designed so that it can easily be converted into a mobile version by adding optional extra equipment.