ABOUT US

With more than 25 years of experience in special purpose machine design and more than 40 qualified employees, we develop efficient methods for your requirements that lead to economically lucrative solutions. All important aspects are located at Kirschenhofer Maschinen GmbH in-house. From design to assembly, but also in the areas of training and service you will receive comprehensive support from us. We only work together with absolutely reliable, selected suppliers. When looking for solutions to complex requirements, the focus is always on high accuracy and punctuality.

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RSS 190 SONIC DRILLING HEAD



















Sonic is an advanced form of drilling that uses high frequency resonance energy that is generated in the Sonic head, to drive a drilling string into geological formations. During drilling the resonance energy with high frequencies is transmitted to the drill surface via the drill string. By simultaneously rotating the drill string, energy and impact are evenly distributed over the drilling surface.





DESIGN

→ Compact design requires small mounting space
 → Strong bearing system off the main shaft
 → Due to its hollow shaft design there is no need for an extra expensive water swivel
 → All mechanical components and bearing with time lubrication and cooling

→ Compatible to drill rigs of all manufacturers



TECHNICAL SPECIFICATIONS

General data	metric	imperial
Sonichead tilt max.	90°	90°
Quantity of oil drill rig	260 l	68,68 gal
Engine power from drill rig	140 KW	190 HP
Weight sonichead	1000 kg	2204 lbs
Drilling depth	ca. 160 m	ca. 520 ft
Drilling diameter	ca. 160 mm	ca. 6,3 inch

Vibration	metric	imperial
Frequency max.	0 – 150 Hz	0 – 150 Hz
Centrifugal force	190 kN	42,71 k lbf
Quantity of oil max.	108 l	28,53 gal
Oil pressure max.	300 bar	4351 psi

Rotary drive	metric	imperial
Torque	4450 Nm / 300 bar	3293 lb-ft / 4351 psi
Rotation max.	100 rpm	100 rpm
Quantity of oil max.	150 l	39,62 gal
Oil pressure max.	300 bar	4351 psi