

Characteristic / Característica	RHINO RFD2X-4590	Epiroc Boomer L2 D	Sandvik DT922i	Sandvik DD422i	Epiroc Boomer M2D
General / General					
Brand / Marca	RHINO	Epiroc	Sandvik	Sandvik	Epiroc
Model / Modelo	RFD2X-4590	Boomer L2 D	DT922i	DD422i	Boomer M2D
Machine Type / Tipo de Equipo	Face Drill / Jumbo Frontal	Face Drill / Jumbo Frontal	Face Drill / Jumbo Frontal	Face Drill / Jumbo Frontal	Face Drill / Jumbo Frontal
Number of Booms / Número de Brazos	2	2	2	2	2
Engine & Power / Motor y Potencia					
Diesel Engine / Motor Diésel	RHINO RFD164T / Cummins QSB5.9	Deutz TCD 2013 L04	Cummins QSB4.5	Cummins QSB4.5	Deutz TCD 2013 L04
Engine Power / Potencia del Motor kW (hp)	164 / 154 (219.9 / 206.5)	120 (160.9)	119 (159.6)	119 (159.6)	120 (160.9)
Emission Rating / Certificación de Emisiones	Tier 3 / Stage III	Tier 3 / Stage IIIA	Tier 3 / Stage IIIA	Tier 3 / Stage IIIA	Tier 3 / Stage IIIA
Fuel Tank / Tanque de Combustible L (gal)	160 (42.3)	100 (26.4)	100 (26.4)	150 (39.6)	110 (29.1)
Drilling System & Coverage / Sistema de Perforación y Cobertura					
Impact Power / Potencia de Impacto kW (hp)	18 (24.1)	18 (24.1)	25 (33.5)	25 (33.5)	18 (24.1)
Percussion Frequency / Frecuencia de Percusión Hz (bpm)	60 (3,600)	60 (3,600)	93 (5,580)	93 (5,580)	60 (3,600)
Rotation Torque / Torque de Rotación N·m (lb-ft)	750 (553)	1,000 (738)	625 (461)	625 (461)	1,000 (738)
Hole Diameter / Diámetro de Perforación mm (in)	45–76 (1.77–2.99)	44–68 (1.73–2.68)	43–64 (1.69–2.52)	43–64 (1.69–2.52)	44–68 (1.73–2.68)
Feed Force / Fuerza de Avance kN (lbf)	15 (3,372)	22 (4,946)	25 (5,620)	25 (5,620)	22 (4,946)
Max Rod Length / Longitud Máx. de Barra mm (ft)	5,561 (18.2)	6,100 (20.0)	6,135 (20.1)	6,135 (20.1)	5,525 (18.1)
Drilling Depth / Profundidad de Perforación mm (ft)	5,214 (17.1)	5,843 (19.2)	5,880 (19.3)	5,880 (19.3)	5,256 (17.2)
Max Coverage Area / Área Máx. de Cobertura m² (ft²)	115 (1,237.8)	104 (1,119.4)	125 (1,345.5)	60 (645.8)	65 (699.7)
Max Coverage W × H / Cobertura Máx. Ancho × Alto mm	13,800 × 9,700	13,400 × 9,300	14,800 × 9,000	10,270 × 6,590	10,068 × 7,483
Min Tunnel Section / Sección Mínima de Túnel m	4.5 × 4.5	5.1 × 5.1	5.6 × 5.6	4.5 × 4.5	4.0 × 4.0
Electrical, Air & Water / Sistema Eléctrico, Aire y Agua					
Main Electric Motors / Motores Eléctricos Principales kW	1 × 110	2 × 75	2 × 75	2 × 75	2 × 75
Total Installed Power / Potencia Total Instalada kW (hp)	122 (163.6)	158 (211.9)	185–200 (248.1–268.2)	170–200 (228.0–268.2)	158 (211.9)
Voltage / Voltaje	380 / 50 Hz	380–1,000 V	380–1,000 V	380–1,000 V	380–1,000 V
Compressor Capacity / Capacidad del Compresor m³/min (cfm)	0.9 (31.8)	1 (35.3)	1 (35.3)	1 (35.3)	1 (35.3)
Water Flow / Caudal de Agua L/min (gpm)	150 (39.6)	250 (66.0)	375 (99.1)	185 (48.9)	200 (52.8)
Water Pressure / Presión de Agua bar (psi)	20 (290)	15 (218)	10–15 (145–218)	10–15 (145–218)	15 (218)
Drive & Hydraulics / Tren de Mando e Hidráulica					
Transmission / Transmisión	Hidrodinámica DANA / Hydrodynamic	Hidrodinámica Clark / Hydrodynamic	Hidrostática / Hydrostatic	Hidrostática / Hydrostatic	Hidrodinámica / Hydrodynamic
Max Travel Speed / Vel. Máx. de Traslado km/h (mph)	14 (8.7)	14 (8.7)	12 (7.5)	12 (7.5)	15 (9.3)
Gradeability / Pendiente Máxima %	25	25	27	27	26
Tire Size / Dimensión de Neumáticos	14.00R24	14xR24	14.00-24	14.00-24	12.00xR24
Hydraulic Tank / Tanque Hidráulico L (gal)	350 (92.5)	297 (78.5)	270 (71.3)	270 (71.3)	297 (78.5)
System Pressure / Presión del Sistema bar (psi)	230 (3,336)	230 (3,336)	235 (3,408)	235 (3,408)	230 (3,336)
Dimensions & Weights / Dimensiones y Pesos					
Operating Weight / Peso Operativo kg (lb)	35,000 (77,162)	27,000–33,000 (59,525–72,752)	30,500 (67,241)	26,000 (57,320)	23,000–29,000 (50,706–63,934)
Transport Length / Longitud de Transporte mm (ft)	16,148 (53.0)	14,169 (46.5)	14,990 (49.2)	13,250 (43.5)	14,297 (46.9)
Transport Width / Ancho de Transporte mm (ft)	2,517 (8.3)	2,550 (8.4)	2,500 (8.2)	2,310 (7.6)	2,245 (7.4)
Transport Height / Altura de Transporte mm (ft)	2,945 (9.7)	2,375 / 3,091 (7.8 / 10.1)	3,190 / 3,590 (10.5 / 11.8)	3,050 / 3,150 (10.0 / 10.3)	2,324 / 3,019 (7.6 / 9.9)
Ground Clearance / Despeje al Suelo mm (in)	361 (14.2)	290 (11.4)	330 (13.0)	330 (13.0)	260 (10.2)
Outer Turning Radius / Radio de Giro Externo mm (ft)	7,547 (24.8)	8,200 (26.9)	9,500 (31.2)	7,000 (23.0)	7,200 (23.6)
Inner Turning Radius / Radio de Giro Interno mm (ft)	4,122 (13.5)	4,800 (15.7)	5,400 (17.7)	3,870 (12.7)	4,400 (14.4)