

# Atlas Copco Surface Drill Rig

## ECM 590-series



**Reliable and flexible rigs with high productivity, for any demanding construction site**

Hole range 64 mm-115 mm (2 1/2"-4 1/2")

*Atlas Copco*

<b>Technical data ECM 590RC</b>		
<b>Recommended hole range</b>		
Hole range	64-115 mm	2½"- 4½"
Drill steel dimensions	T38,T45,T51	
<b>Rod handling capacity</b>		
Hole depth	22 m	72'
<b>Hydraulic rock drill</b>		
Yamamoto/YH80A		
Impact power, max.	16.4 kW	22 HP
Rotation speed	0-160 rpm	
Torque max.	578 Nm	426 ft.lbf
<b>Engine</b>		
Cummins QSB6.7		
Rating at 2350 rpm	164 kW	220 HP
Emission control level	Stage 3	Tier III
<b>Fuel tank</b>		
Capacity	378 l	~100 US gal.
<b>Compressor</b>		
Working pressure, max.	9.7 bar	140 psi
FAD (Free Air Delivery)	118 l/s	250 cfm
<b>Boom variant</b>		
Type	Extension	
Boom extension	762 mm	30"
<b>Feed</b>		
Feeding system	Chain	
Feed length, total	7 366 mm	24'2"
Travel length	4 674 mm	15'4"
Feed extension	1 219 mm	4'
Feed rate, max.	0.71 m/s	139 ft/min
Feed force, max.	23 kN	5200 lbf
Pull force, max	23 kN	5200 lbf
<b>Tramming</b>		
Tramming speed max.	3.3 km/h	2 mph
Traction force	81.73 kN	18 373 lbf
Hill climbing ability	30°	
Track oscillation	±10°	
Ground clearance	457 mm	18"
<b>Transport dimensions, approximately</b>		
Weight	11.1 tonnes	24500lb
Width	2.62 m	8'7"
Height	2.92 m	9'7"
Length	8.94 m	29'4"

## Standard equipment

- Mechanized rod handling system
- Automatic throttle
- Fully load sense hydraulic system
- On off anti-jamming
- Pre-separator
- Dust collector
- Retractable dust hood
- Boom extension
- Feed extension
- Hydraulic centralizer
- Heavy duty tracks with full length rock guard
- Separate drill and tram consoles
- Back up alarm
- Pressurized water mist with tank
- Toe hole drilling forward
- Variable speed cooling fan (3 step)
- Ether start

## Selection of optional equipment

- Work lights
- Hydraulic pressure test kit
- Reverse percussion
- Winch
- Conversion kits T51/T45/T38
- Gas charging equipment

Technical data ECM 590RR		
<b>Recommended hole range</b>		
Hole range	64-102 mm	2 ½" - 4"
Drill steel dimensions	T38, T45	
<b>Rod handling capacity</b>		
Hole depth	18.4 m	60'
<b>Hydraulic rock drill</b>		
Yamamoto/YH80A		
Impact power, max.	16.4 kW	22 HP
Rotation speed	0 - 160 rpm	
Torque, max.	578 Nm	426 ft.lbf
<b>Engine</b>		
QSB6.7		
Rating at 2350 rpm	164 kW	220 HP
Emission control level	Stage 3	Tier III
<b>Fuel tank</b>		
Capacity	378 l	~100 US gal.
<b>Compressor</b>		
Working pressure, max.	9.7 bar	140 psi
FAD (Free Air Delivery)	118 l/s	250 cfm
<b>Boom variant</b>		
Type	Extension	
Boom extension	1 219 mm	48"
<b>Feed</b>		
Feeding system	Chain	
Feed length, total	7 366 mm	24'2"
Travel length	4674 mm	15'4"
Feed extension	1 219 mm	4'
Feed rate, max.	0.71 m/s	139 ft/min
Feed force, max.	23 kN	5200 lbf
Pull force, max.	23 kN	5200 lbf
<b>Tramming</b>		
Tramming speed max.	3.3 km/h	2 mph
Traction force	81.73 kN	18 373 lbf
Hill climbing ability	30°	
Track oscillation	±10°	
Ground clearance	457 mm	18"
<b>Transport dimensions, approximately</b>		
Weight	10.7 tonnes	23500lb
Width	2.62 m	8'7"
Height	2.92 m	9'7"
Length	8.94 m	29'4"

## Standard equipment

- Manual rod rack
- Automatic throttle
- Fully load sense hydraulic system
- On off anti-jamming
- Pre-separator
- Dust collector
- Retractable dust hood
- Boom extension
- Feed extension
- Hydraulic centralizer
- Heavy duty tracks with full length rock guard
- Separate drill and tram consoles
- Back up alarm
- Pressurized water mist with tank
- Toe hole drilling forward
- Variable speed cooling fan (3 step)
- Ether start

## Selection of optional equipment

- Work lights
- Hydraulic pressure test kit
- Reverse percussion
- Winch
- Conversion kits T45/T38
- Gas charging equipment

Technical data ECM592		
<b>Recommended hole range</b>		
Hole range	64-102 mm	2½" - 4"
Drill steel dimensions	T38, T45	
<b>Rod handling capacity</b>		
Hole depth	21.5 m	70'
<b>Hydraulic rock drill</b>		
Yamamoto/YH80A		
Impact power, max.	16.4 kW	22 HP
Rotation speed	0-160 rpm	
Torque max,	578 Nm	426 ft.lbf
<b>Engine</b>		
Cummins QSB6.7		
Rating at 2350 rpm	164 kW	220 HP
Emission control level	Stage 3	Tier III
<b>Fuel tank</b>		
Capacity	378 l	~100 US gal.
<b>Compressor</b>		
Working pressure, max.	9.7 bar	140 psi
FAD (Free Air Delivery)	118 l/s	250 cfm
<b>Boom variant</b>		
Type	Extension	
Boom extension	762 mm	30"
<b>Feed</b>		
Feeding system	Chain	
Feed length, total	9 500 mm	31'2"
Travel length	6 807 mm	22'4"
Feed extension	1 219 mm	4'
Feed rate, max.	0.71 m/s	139 ft/min
Feed force, max.	23 kN	5200 lbf
Pull force, max	23 kN	5200 lbf
<b>Tramming</b>		
Tramming speed max.	3.3 km/h	2 mph
Traction force	81.73 kN	18 373 lbf
Hill climbing ability	30°	
Track oscillation	±10°	
Ground clearance	457 mm	18"
<b>Transport dimensions, approximately</b>		
Weight (excl. op. equipment)	10.9 tonnes	24 000 lb
Width	2.62 m	8'7"
Height	2.92 m	9'7"
Length	10.6 m	34'10"

## Standard equipment

- Long mast for 22ft single pass drilling
- Manual rod rack
- Automatic throttle
- Fully load sense hydraulic system
- On off anti-jamming
- Pre-separator
- Dust collector
- Retractable dust hood
- Boom extension
- Feed extension
- Hydraulic centralizer
- Heavy duty tracks with full length rock guard
- Separate drill and tram consoles
- Back up alarm
- Pressurized water mist with tank
- Variable speed cooling fan (3 steps)
- Ether start

## Selection of optional equipment

- Work lights
- Hydraulic pressure test kit
- Reverse percussion
- Winch
- Conversion kits T45/T38
- Gas charging equipment