



ECM

MINI EXCAVATORS



Model shown: 95 UR Offset Boom



ES 85 U

8.5 tonne Swing Boom



ES 95 UR

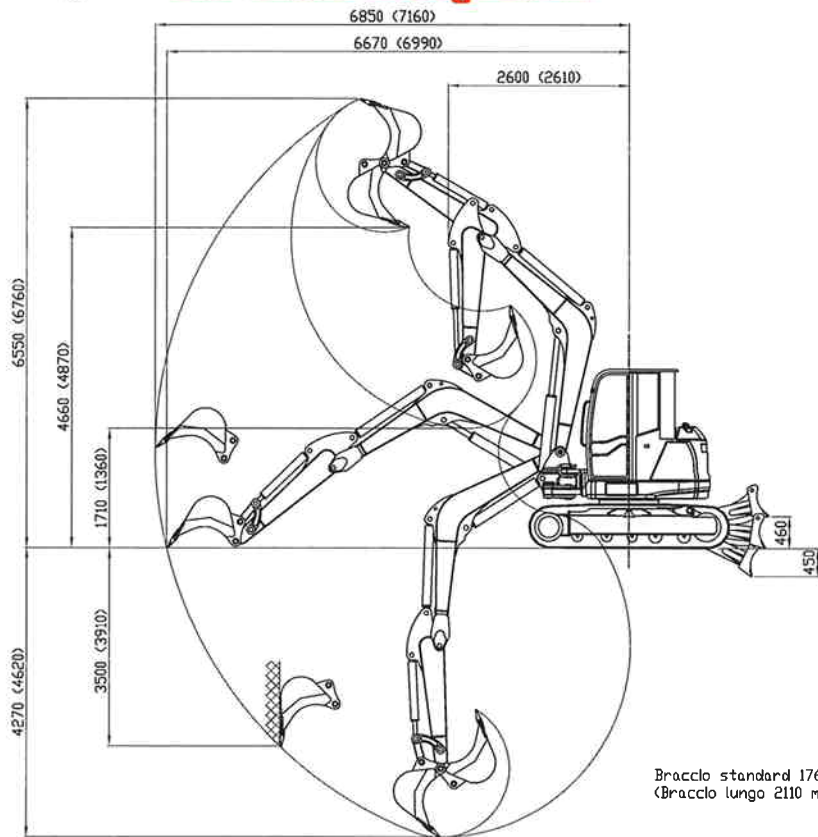
9.5 tonne Offset Boom



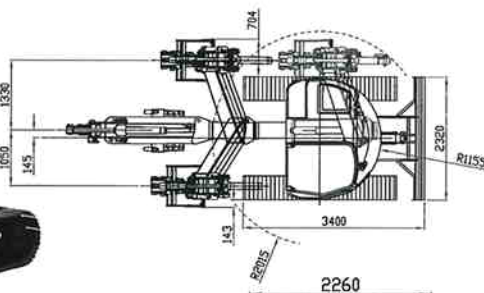
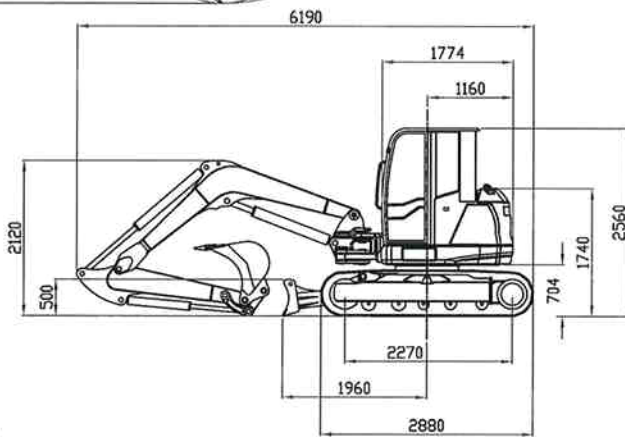
85 U

MINI EXCAVATOR

8.5 tonne Swing Boom



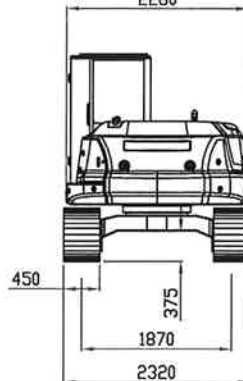
Braccio standard 1760 mm
(Braccio lungo 2110 mm)



ES 85 U - LIFTING CAPACITY

Opening arm from the rotation's centre
Lifting capacity at 1.5 m height

	3	4	5	MAX
DOZER FRONT	4270	3130	2540	2390
END				
IDLER	3282	2070	1485	1340
CENTRE				
CRAWLER	2859	1827	1292	1140
CENTRE				



Weight (rubber tracks)	kg	8.600
Weight (steel tracks)	kg	9.000
Travelling speed ("Lo - Hi")	km/h	2,6-5,2
Slew Speed	rpm	12

ENGINE

Type	YANMAR 4TNV98	
Power (2200 rpm)	kw - Hp	46,5 kW - 63.2 Hp
Displacement	cc	3319
Number of Cylinders	n	4
Cooling	water	
Consumption	lt/h	7,5
Alternator	V (A)	12 (40)
Battery	V (Ah)	12 (100)

HYDRAULIC SYSTEM

Type	LOAD SENSING CLOSED-CENTRE SYSTEM WITH FLOW SHARING VALVES	
Pump type	1 LS VARIABLE PISTON PUMP + 1 GEAR PILOT PUMP	
Pump displacement	cc	84 + 9
Pump capacity	lt/min	185 + 20
Auxiliary system	lt/min	100
Circuit calibration	bar	290 - 200 - 35 pressure

PERFORMANCES

Bucket breaking force (standard arm) ISO 6015	kgf	5500
Arm breaking force (standard arm) ISO 6015	kgf	4000
Traction force	kgf	7960
Ground bearing pressure	kg/cm2	0,41
Max slope		60% - 30

DIMENSIONS

Total width	mm	2320
Max dumping height standard arm (optional arm)	mm	5220 (5470)
Total height	mm	2560
Rear rotation radius	mm	1155
Max digging depth standard arm (optional arm)	mm	3800 (4150)
Digging arm length std (optional)	mm	1760 (2110)
Tracks width	mm	450
Rollers number (for each side)	n	5/1 (rubber track) 6/1 (steel track)

FILLINGS

Fuel tank	lt	105
Hydraulic oil tank	lt	90
Hydraulic circuit capacity	lt	120
Cooling system capacity	lt	25
Engine oil	lt	10

CONTROLS

Bucket, boom, swing, slew	2 Joystick
Travel & Steering	2 pilot levers
Dozer blade	1 pilot lever
Auxiliary hydraulics system	Electroproportional Switch on right joystick

• ROPS ISO 3471 and FOPS 1st level ISO 3449

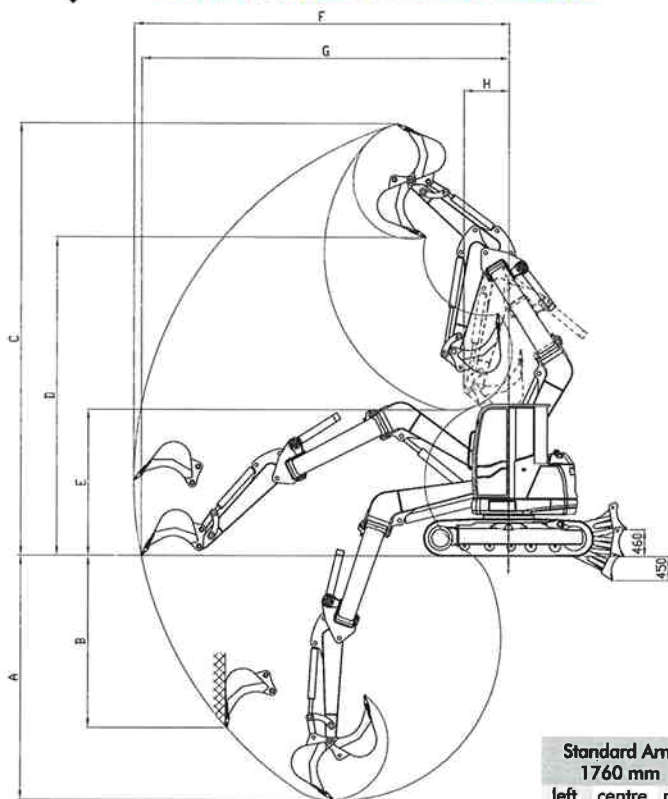
The lifting capacity is based on the ISO 10567 and it does not exceed more than the 75% of static tipping load or more than the 87% of the hydraulic lifting capacity of the machine.



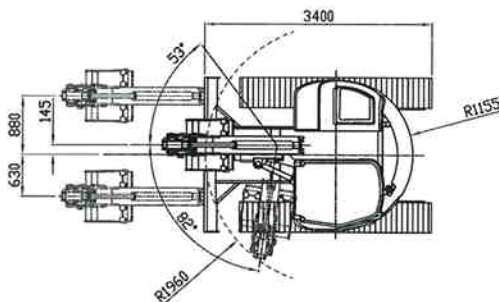
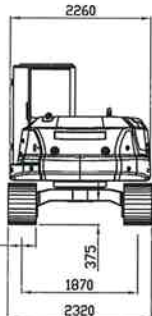
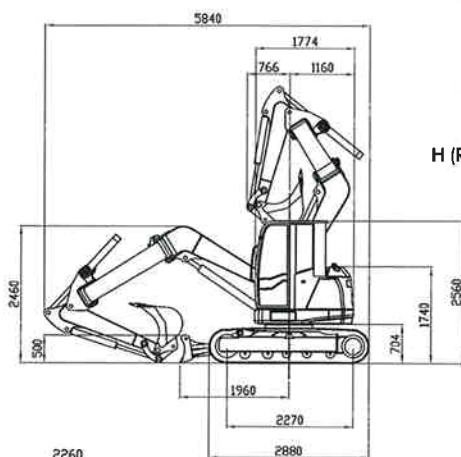
95 UR

9.5 tonne Offset Boom

MINI EXCAVATOR



	Standard Arm 1760 mm			Optional Arm 2110 mm		
	left	centre	right	left	centre	right
A	3840	4220	3530	4195	4580	3880
B	2860	3200	2575	3230	3590	2950
C	7050	7380	6780	7280	7600	7010
D	5130	5450	4860	5340	5670	5070
E	2120	2460	1860	1795	2120	1540
F	6070	6450	5770	6380	6760	6075
G	5030	6320	5610	6240	6630	5920
H (R min)	1465	1180	2080	1540	1260	2090



ES 95 UR - LIFTING CAPACITY

Opening arm from the rotation's centre
Lifting capacity at 1.5 m height

	3	4	5	MAX
DOZER FRONT END	4106	3002	2373	2066
IDLER CENTRE	3350	2200	1570	1290
CRAWLER CENTRE	3070	1969	1380	1110

Weight (rubber tracks)	kg	9.000
Weight (steel tracks)	kg	9.400
Travelling speed ("Lo - Hi")	km/h	2,6-5,2
Slew Speed	rpm	12

ENGINE

Type	YANMAR 4TNV98	
Power (2200 rpm)	kw - Hp	46,5 kW - 63.2 Hp
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PERFORMANCES

Bucket breaking force (standard arm) ISO 6015	kgf	5500
Arm breaking force (standard arm) ISO 6015	kgf	4000
Traction force	kgf	7960
Ground bearing pressure	kg/cm ²	0,45
Max slope	60% - 30	

DIMENSIONS

Total width	mm	2320
Max dumping height standard arm (optional arm)	mm	5450 (5670)
Total height	mm	2560
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Engine oil	lt	10

CONTROLS

Bucket, boom, swing, slew	2 Joystick
Travel & Steering	2 pilot levers
Dozer blade	1 pilot lever
Auxiliary hydraulics system	Electroproportional Switch on right joystick
Offset	Electroproportional Switch on left joystick

• ROPS ISO 3471 and FOPS 1st level ISO 3449

The lifting capacity is based on the ISO 10567 and it does not exceed more than the 75% of static tipping load or more than the 87% of the hydraulic lifting capacity of the machine.



ECM

MINI EXCAVATORS

STANDARD EQUIPMENT

- TOPS (EN13531) – FOPS (ISO 3449) ROPS cabin complete with air conditioning and stereo
- On board computer with multifunctional display (diagnostic, emergencies report)
- Steel tracks 450 mm
- Dozer blade width 2320 mm
- Automatic emergency brake on rotation and translation
- Translation double speed with "AUTO TWO SPEED"
- Digging arm 1760 mm
- Servo-control hydraulic joysticks with proportional electro-hydraulic control to:
 - swing;
 - single and double acting hydraulic system (eg. hammer or auger);
 - double-acting hydraulic low-flow system (eg. swinging bucket or grapples with rotator);
- Hi-flow hydraulic system with 100 l/min flow at constant 200 bar for milling and cutting.
- Double affect hydraulic system with 3 way deviator
- N 3 rear view mirrors
- Ignition (universal key for all the locks of the machine)
- Adjustable seat and rests with seat belts
- Air dry filter with electric indicator of clogging
- Spare parts book, user and maintenance book and tool box
- Working lights on arm and turret
- Cylinders protection (boom and dozer)
- Valves on 1st and 2nd arm ES85U and ES 95UR
- Electronic control diesel filling pump
- Satellite control system (with integrated anti-theft device)
- Hydraulic hitch
- Standard digging buckets
- Certified lifting hook



Brisbane Mini Excavator Sales Pty Ltd ATF The Collins No2 Family Trust

28 Old Pacific Highway, Yatala, Qld 4207
Ph: 07 3807 4333 Fax: 07 3807 3533
www.miniexcavators.com.au



**COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
= UNI EN ISO 9001:2008 =**