

# MACHINES FOR UNDERGROUND





# INDEX

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## ESSENTIAL MACHINES

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CODE	RANGE	BULL WHEEL DIAMETER	GROOVES NUMBER	ENGINE POWER	
<b>ARS200</b>	15 kN	200 mm	7	13 kW	<b>12.10</b>
<b>ARS301</b>	25 kN	250 mm	6	19 kW	<b>12.15</b>
<b>ARS403</b>	35 kN	325 mm	7	19 kW	<b>12.20</b>

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## DIGITAL MACHINES

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CODE	RANGE	BULL WHEEL DIAMETER	GROOVES NUMBER	ENGINE POWER	
<b>PM1250</b>	50 kN	350 mm	7	42 kW	<b>12.25</b>
<b>PM1450</b>	100 kN	400 mm	8	55 kW	<b>12.30</b>

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## FULL ELECTRIC MACHINE

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CODE	RANGE	BULL WHEEL DIAMETER	GROOVES NUMBER	BATTERY PACK	
<b>PE1250</b>	50 kN	300	8	350 V	<b>12.35</b>

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# ARS200

## HYDRAULIC PULLER



MAX PULL  
15 kN



MAX SPEED  
60 m/min



ROPE DIAMETER  
8 mm

MULTI PURPOSE MACHINE

COMPACT DESIGN



ARS200 with ALL112

### PERFORMANCE \*

Max pull	15 kN
Speed at max pull	12 m/min
Max speed	60 m/min
Pull at max speed	4 kN

\* at 20°C and at sea level

### HYDRAULIC TRANSMISSION

Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.

### CHARACTERISTICS

Bull-wheel diameter	200 mm
Bull-wheel material	STEEL
Max rope diameter	8 mm
Weight (dry)	500 kg
Number of grooves	7
Suitable for	1 rope
Layout	Single

### ENGINE

Gasoline	13 kW (18 hp)
Cooling system	AIR
Electrical system	12 V

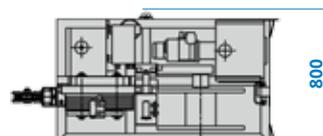
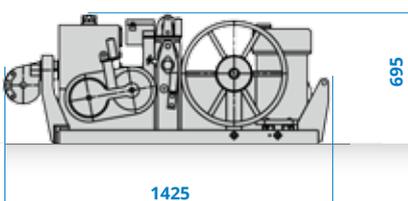
### CONFIGURATION

Negative self-acting hydraulic brake.  
Hydraulic dynamometer with set-point and automatic control of maximum pull.  
On board automatic reel winder with level wind, for mod. BOF370 for 500 m of Ø 8 mm rope.

### AVAILABLE DEVICES

<b>ALL102</b>	Pulling rope locking device when capstan is used (compulsory for EC market)
<b>ALL105</b>	Rigid axle and towing bardetachable, for manual towing
<b>ALL107</b>	Capstan (diameter=220 mm equipped with guide rope rollers)
<b>ALL111</b>	Swivel guide rope roller.
<b>ALL112</b>	Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system.

ARS200 with ALL111



ALL112

Pictures & drawings can be different according to technical specifications - updating programme variations without notice are possible.

Certified Quality System  
ISO 9001:2015

Certified Environmental System  
ISO 14001:2015

Certified Health & Safety System  
ISO 45001:2018

# ARS301

## HYDRAULIC PULLER



MAX PULL

25 kN



MAX SPEED

50 m/min



MAX ROPE DIAMETER

10 mm

MULTI PURPOSE MACHINE

AVAILABLE FOR ROAD USE

### PERFORMANCE\*

Max pull	25 kN
Speed at max pull	17 m/min
Max speed	50 m/min
Pull at max speed	8 kN

\*at 20°C and at sea level

### HYDRAULIC TRANSMISSION

Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.

### CHARACTERISTICS

Bull-wheel diameter	250 mm
Bull-wheel material	STEEL
Max rope diameter	10 mm
Weight (dry)	820 kg
Number of grooves	6
Suitable for	1 rope
Layout	Single

### ENGINE

Diesel	19 kW (26 hp)
Cooling system	WATER
Electrical system	12 V

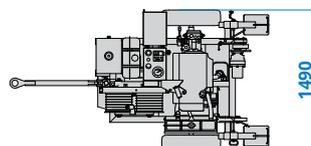
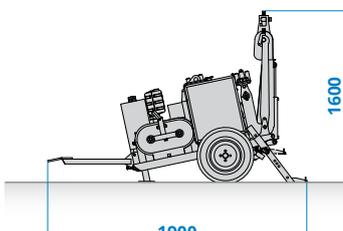
Lower emission level available on demand for countries where higher level is not adopted or usable.

### CONFIGURATION

Negative self-acting hydraulic brake.  
Hydraulic dynamometer with set-point and automatic control of maximum pull.  
Control instruments for hydraulic system and Diesel engine.  
Rigid axle 30 km/h.  
Mechanical front stabiliser.  
Grounding connection point.  
On board automatic reel winder with level wind, for mod. BOF010 and BOF020.  
Reel shaft AXR001.  
Pull pre-setting system.

### AVAILABLE DEVICES

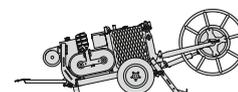
<b>ALL110</b>	Deflection boom optional
<b>ALL111</b>	Swivel guide rope roller
<b>ALL112</b>	Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system
<b>AXR001</b>	Extra shaft
<b>DLR300</b>	Electronic pull and speed recorder



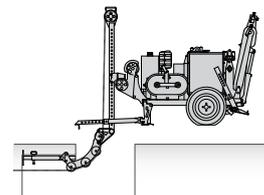
DLR300



ALL112



ALL111



ALL110

# ARS403

## HYDRAULIC PULLER



MAX PULL

35 kN



MAX SPEED

50 m/min



ROPE DIAMETER

13 mm

MULTI PURPOSE MACHINE

AVAILABLE FOR ROAD USE



### PERFORMANCE \*

Max pull	35 kN
Speed at max pull	15 m/min
Max speed	50 m/min
Pull at max speed	10 kN

\* at 20°C and at sea level

### HYDRAULIC TRANSMISSION

Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.

### CHARACTERISTICS

Bull-wheel diameter	325 mm
Bull-wheel material	STEEL
Max rope diameter	13 mm
Weight (dry)	980 kg
Number of grooves	7
Suitable for	1 rope
Layout	Single

### ENGINE

Diesel	19 kW (26 hp)
Cooling system	WATER
Electrical system	12 V

### CONFIGURATION

Negative self-acting hydraulic brake.  
Hydraulic dynamometer with set-point and automatic control of maximum pull.  
Control instruments for hydraulic system and Diesel engine.  
Rigid axle 30 km/h.  
Mechanical front stabiliser.  
Grounding connection point.  
On board automatic reel winder with level wind, suitable for mod. BOF010 and BOF020.  
Reel shaft AXR001.  
Pull pre-setting system.

### AVAILABLE DEVICES

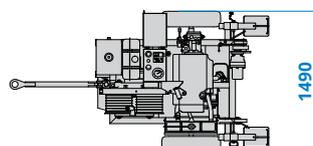
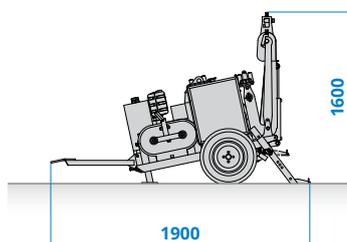
<b>ALL110</b>	Underground cable pulling attachment.
<b>ALL111</b>	Swivel guide rope roller.
<b>ALL112</b>	Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system.
<b>AXR001</b>	Extra shaft.
<b>DLR300</b>	Electronic pull and speed recorder.



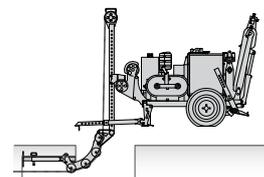
DLR300



ALL112



ALL111



ALL110

Pictures & drawings can be different according to technical specifications - updating programme variations without notice are possible.

# PM1250

## PULLING MACHINE



MAX PULL  
50 kN



MAX SPEED  
67 m/min



MAX ROPE DIAMETER  
14 mm

### + NEW TESMEC DIGITAL HMI:

- 7" color display
- Radio remote control
- Remote Diagnostic with GPS
- Data Recorder

### + AUTOMATIC REEL WINDER

### + INTEGRATED COVERS

### PERFORMANCE\*

Max pull	50 kN
Speed at max pull	17 m/min
Max speed	67 m/min
Pull at max speed	12,5 kN
Free wheel max speed	150 m/min

\*at 20°C and at sea level

### HYDRAULIC TRANSMISSION

Closed hydraulic circuit for stepless speed variation in both rotating direction.

### CHARACTERISTICS

Bull-wheel diameter	350 mm
Max rope diameter	14 mm
Weight (without rope)	2000 kg
Number of grooves	7
Suitable for	1 rope
Layout	Single

### ENGINE

Diesel	42 kW (56 hp)
Emission level	tier 4f / Stage IIIB
Cooling system	WATER
Electrical system	12 V

Lower emission level available on demand for countries where higher level is not adopted or usable.

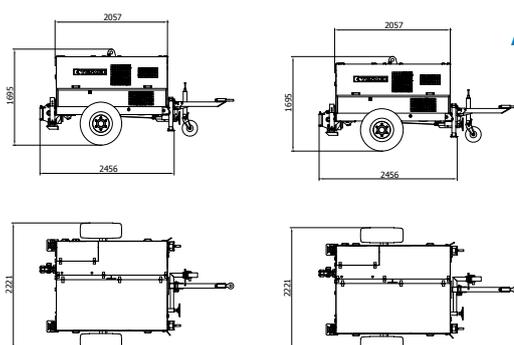
### CONFIGURATION

New Tesmec digital HMI.  
Automatic reel winder.  
Lockable sound proof integrated covers.

Negative self-acting hydraulic brake.  
Rigid axle 30 km/h.  
Grounding connection point.  
Mechanical front and rear stabilizers.  
On board reel winder with automatic level wind and reel for 700 m of d. 14 mm rope.  
Free wheel device.  
Electronic pull value limitation control.

### AVAILABLE DEVICES

- ALL037** Preheating device up to -30°C
- ALL110** Deflection boom optional
- ALL112** Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system
- ALL261** External printer
- ALL270** remote Diagnostic System with GPS localization including 3-year subscription.
- ALL400** Reel-winder preset for different rope diameter



ALL112



7" COLOR DISPLAY



RADIO REMOTE CONTROL

# PM1450

## PULLING MACHINE



MAX PULL

100 kN



MAX SPEED

33 m/min



MAX ROPE DIAMETER

16 mm

**+ NEW TESMEC DIGITAL HMI:**

- 7" color display
- Radio remote control
- Data Recorder

**+ AUTOMATIC REEL WINDER**

**+ INTEGRATED COVERS**



### PERFORMANCE\*

Max pull	100 kN
Speed at max pull	15 m/min
Max speed	33 m/min
Pull at max speed	40 kN
Free wheel max speed	83 m/min

\*at 20°C and at sea level

### HYDRAULIC TRANSMISSION

Closed hydraulic circuit for stepless speed variation in both rotating direction.

### CHARACTERISTICS

Bull-wheel diameter	400 mm
Max rope diameter	16 mm
Weight (without rope)	3100 kg
Number of grooves	8
Suitable for	1 rope
Layout	Single

### ENGINE

Diesel	55 kW (75 hp)
Emission level	tier 4f / Stage IIIB
Cooling system	WATER
Electrical system	12 V

Lower emission level available on demand for countries where higher level is not adopted or usable.

### CONFIGURATION

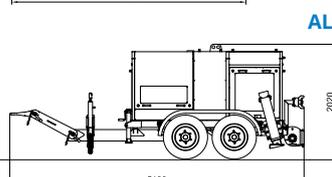
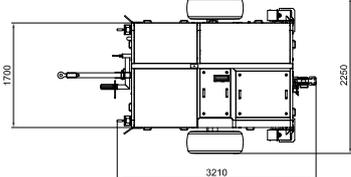
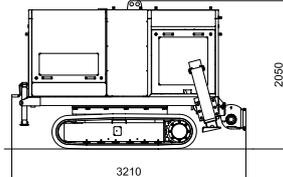
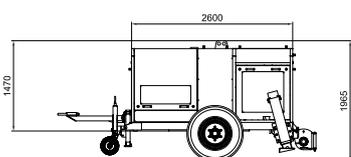
- New Tesmec digital HMI.
- Automatic reel winder.
- Lockable sound proof integrated covers.
- Negative self-acting hydraulic brake.
- Rigid axle 30 km/h.
- Grounding connection point.
- Hydraulic front and mechanical rear stabilizers.
- On board reel winder with automatic level wind and reel for 1500 m of d. 16 mm rope.
- Free wheel device.
- Electronic pull value limitation control.

### AVAILABLE DEVICES

- ALL037** Preheating device up to -30°C
- ALL110** Deflection boom optional
- ALL112** Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system
- Self-propulsion movement with caterpillar system**
- Performance:**
  - Max speed 2 km/h
- ALL065**
  - Max inclination with machine full weight 60% (30°)
  - Weight (without rope) 4100 kg
  - Complete with radio remote control
- ALL261** External printer
- ALL270** Remote Diagnostic System with GPS localization including 3-year subscription.
- ALL280** Automatic grease pump
- ALL400** Reel-winder preset for different rope diameter

ALL065

ALL112



7" COLOR DISPLAY



RADIO REMOTE CONTROL

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Certified Quality System  
ISO 9001:2015

Certified Environmental System  
ISO 14001:2015

Certified Health & Safety System  
ISO 45001:2018



# PE1250

## FULL ELECTRIC MACHINE



**MAX PULL**  
50 kN



**MAX SPEED**  
70 m/min



**MAX ROPE DIAMETER**  
15 mm

### + NEW TESMEC DIGITAL HMI:

- 7" color display
- Radio remote control
- Remote Diagnostic with GPS
- Data Recorder

### + AUTOMATIC REEL WINDER

### + INTEGRATED COVERS



### PERFORMANCE\*

Max pull	50 kN
Speed at max pull	10 m/min
Max speed	70 m/min
Pull at max speed	5 kN
Free wheel max speed	70 m/min

\*at 20°C and at sea level

### CHARACTERISTICS

Bull-wheel diameter	300 mm
Max rope diameter	15 mm
Weight (without rope)	2500 kg
Number of grooves	8
Suitable for	1 rope
Layout	Single

### ELECTRICAL POWER PACK

Battery pack	350 V
Charge time	4H Δ 208 V US* 4H Y 400 V EU*

\*Plug: 3PH+N+PE

### REEL WINDER

Max rope diameter	15 mm
Max rope length	700 m
Automatic level wind	

### CONFIGURATION

New Tesmec digital HMI.  
Automatic reel winder.  
Lockable sound proof integrated covers.

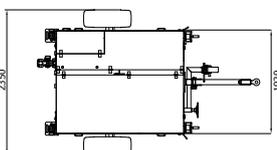
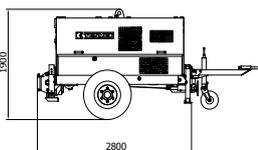
Negative self-acting electrical brake.  
Rigid axle 30 km/h.  
Grounding connection point.  
Mechanical front and rear stabilizers.  
Free wheel device.  
Electronic pull value limitation control.  
Integrated warm-up system.

### BATTERY STORAGE CAPACITY

Rope length recovered		
Working	Average	7000 m
Cycle	Max pulling force	1400 m

### AVAILABLE DEVICES

- ALL110** Deflection boom optional
- ALL112** Trailer 80 km/h. EC type-approved for road circulation with hook Ø 40 mm and lighting system
- ALL261** External printer
- ALL280** Automatic grease pump
- ALL400** Reel-winder preset for different rope diameter

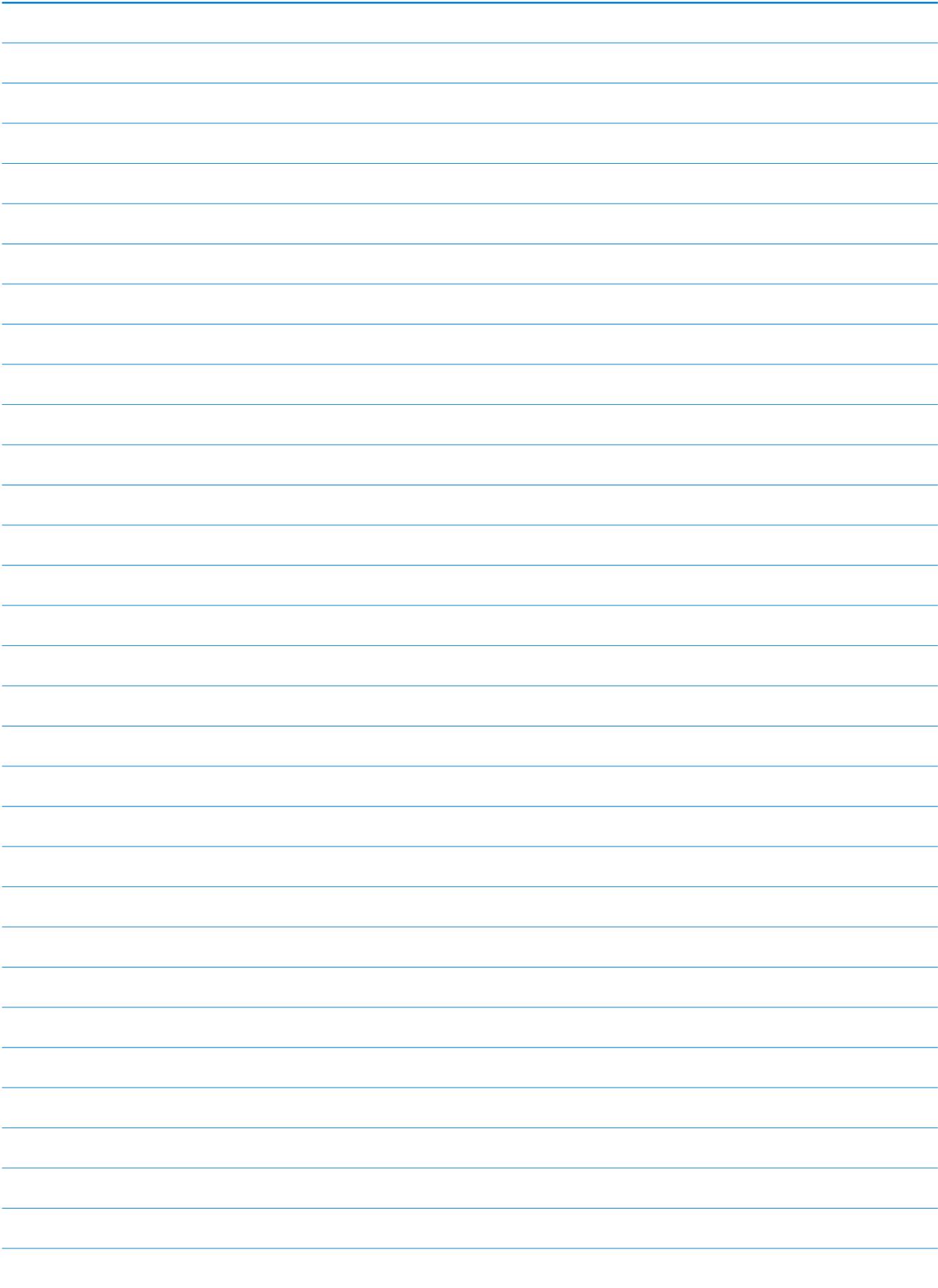


7" COLOR DISPLAY



RADIO REMOTE CONTROL





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