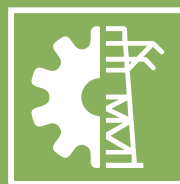
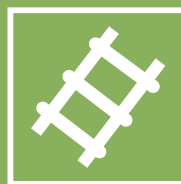




UNDERGROUND CABLE LAYING

EQUIPMENT



THE LINK I LIKE

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EQUIPMENT

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REEL-STANDS & TRAILERS



F155 MAX LOAD 70 TO 200 KN

Stands fit for steel or wooden reels, used for lifting a reel and braking it while stringing the conductor/cable. The reel stands, as an option, can be hydraulically driven by a hydraulic power unit. Reel-stands are supplied in pairs.

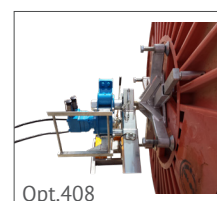
- No. 1 self-braking disk brake
- Each stand can be raised or lowered independently by a hydraulic hand pump
- Mechanical safe-stops mounted on the jack arm
- Side supports with ball joints
- Spindle complete with accessories
- Conical bushes for wooden reels (diameter on demand)
- Welded and painted steel framework with attachments for anchoring
- Metallic tool box for the accessories

OPTIONAL DEVICES

- 423** Additional disk brake (2 brakes in total)
- 410.3** No. 1 or 2 disc brakes with hydraulic clamp controlled by manual pump
- 408** Hydraulic drive to control the reel rotation, either recovering or releasing the conductor/cable (to be fed by hydraulic power unit)
- 078.1** Set of flexible hoses for feeding the drive unit (available lengths: 7, 10, 15 m)
- 401** Devices fit for steel reel and bushes to centre the reel hole (diameter on demand)
- 419.1** Manual rope-winder, fit to stratify different diameters of rope (max reel width to be confirmed). Available for mod. F155.070 only
- 419.2** Automatic rope-winder, fit to stratify different diameters of rope (suitable for standard steel reels mod. F162 and F164). Available for mod. F155.150 and F155.200
- 419.3** Automatic rope-winder, fit to stratify different diameters of rope (max reel width to be confirmed). Available for mod. F155.070 only



Opt.410.3



Opt.408

	Reel diameter min-max ⁽¹⁾	Reel max width	Spindle diameter	Dimensions of each reel-stand	Weight of the pair of reel-stands ⁽²⁾
	m	m	mm	m (LxW)	kg
F155.070	1,00-2,80	1,50	55	2,10 x 0,50	350
F155.100	1,50-3,20	1,70	70	2,40 x 0,55	540
F155.150	2,00-4,00	3,00	95	3,10 x 0,60	1100
F155.200	2,00-4,00	3,00	95	3,10 x 0,60	1250

(*)on demand we can supply stands fit for reels with bigger diameter - (²) weight of a pair of standard stands, with no optional devices.

	Max load of the pair of reel-stands	Braking torque with standard brake	Braking torque with 2 brakes opt. 423	Braking torque with brake opt. 410.3	Performances with drive opt. 408		
					Max braking torque	Max recovery torque	Max speed ⁽³⁾
	daN	daN m	daN m	daN m	daN m	daN m	km/h
F155.070	7000	150	300	—	225	180	5
F155.100	10000	230	460	600	280	230	5
F155.150	15000	230	460	1000	312	250	5
F155.200	20000	280	560	1200	375	300	5

(³)powered by hydraulic circuit of a tensioner and puller-tensioner or power unit.



F155.A MAX LOAD 300/500 KN

Stands fit for steel or wooden reels, used for lifting a reel and braking it while stringing the conductor/cable. The reel stands, as an option, can be hydraulically driven by a hydraulic power unit. Reel-stands are supplied in pairs.

- Each stand can be raised or lowered independently by a hydraulic hand pump
- Side supports with ball joints
- Spindle complete with accessories
- Conical bushes for wooden reels and cylindrical bushes for steel reels (diameter on demand)
- Welded and painted steel framework with attachments for anchoring
- Frame fit for being lifted by crane or fork
- Metallic tool box for the accessories
- Ladder and footboard for the operator
- Dials to close and drag steel and wooden reels, with detachable disk brake
- Disk brake with manual regulation

ALSO AVAILABLE F155.A.400 (40 TON MAX LOAD)



OPTIONAL DEVICES

- 402** Additional conical or cylindrical bushes for wooden or steel reels (diameter on demand)
- 408** Hydraulic drive to control the reel rotation, either recovering or releasing the conductor/cable (to be fed by hydraulic power unit)
- 408x2** Double hydraulic drive
- 078.1** Set of flexible hoses for feeding the drive unit (available lengths: 7, 10, 15 m)
- 409** Steel containers for transporting and stocking the stands (2 containers)
- 410.3** One disc brake with hydraulic clamp controlled by manual pump
- 419.3** Automatic rope-winder, fit to stratify different diameters of rope (max reel width to be confirmed)
- 423** Additional disk brake (2 brakes in total)
- 458** Reel lifting/lowering system controlled by separate hydraulic circuit. Complete with flexible hoses 10 m long with quick couplings
- SP2** Base to raise up the stand, fit for reels with diameter up to 6 m



Opt.408

	Reel diameter min-max	Reel width max ⁽¹⁾	Dimensions of each reel-stand	Spindle diameter	Weight of the pair of reel-stands ⁽²⁾
	m	m	m (LxW)	mm	kg
F155.A.300	3,00 – 4,60	2,80	2,80 x 0,70	100 - 140	1600
F155.A.500	3,50 – 4,80	3,60	3,10 x 0,90	120 - 160	2400

⁽¹⁾ to be agreed - ⁽²⁾ weight of a pair of standard reel-stands, without optional devices.

	Max load of the pair of reel-stands	Braking torque with standard brake	Braking torque with 2 brakes opt. 423	Performances with drive opt. 408		
				Max braking torque opt.408	Max recovering torque opt.408	Max speed ⁽³⁾
	daN	daN m	daN m	daN m	daN m	m/min
F155.A.300	30000	150	300	600	500	50
F155.A.500	50000	230	460	1600	1400	15

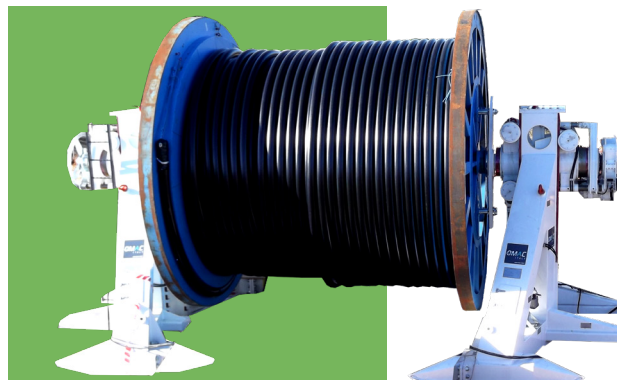
⁽³⁾ powered by hydraulic power unit mod. F306.21.CC



F155.C MAX LOAD 300/900 KN

Tail-stock stands fit for steel reels, used for lifting a reel and braking it while stringing the conductor/cable. The reel stands, as an option, can be hydraulically driven by a hydraulic power unit. Reel-stands are supplied in pairs.

- Each stand can be raised or lowered independently by a hydraulic hand pump
- Tail-stocks for sustaining the reel
- Steel frame with detachable feet for reduced overall dimensions
- Frame fit for being lifted by crane or fork
- Pair of bushes for centring the reel hole (reel hole diameter to be specified)
- Disk brake with manual regulation (optional: two disk brakes – opt.423)



OPTIONAL DEVICES

402	Additional conical or cylindrical bushes for wooden or steel reels (diameter on demand)	423	Additional mechanical manual disk brake (2 brakes in total)
408	Hydraulic drive to control the reel rotation, either recovering or releasing the conductor/cable (to be fed by hydraulic power unit)	458	Reel lifting/lowering system controlled by separate hydraulic circuit. Complete with flexible hoses 10 m long with quick couplings
408x2	Double hydraulic drive	464	Sliding tailstock controlled by hydraulic cylinder with hand pumps (the weight increases by 650 kg)
078	Set of flexible hoses (10 m long) for feeding the drive unit by separate hydraulic power unit	458	Reel lifting/lowering system controlled by separate hydraulic circuit. Complete with flexible hoses 10 m long with quick couplings
410.3	One or two disc brakes with hydraulic control and manual pump	SP2	Base to raise up the stand, fit for reels with diameter up to 6 m

	Max load of the pair of reel-stands	Reel diameter min-max (*)	Reel width max	Dimensions of each reel-stand	Tail-stocks diameter	Weight of each stand (²)
	daN	m	m	m (LxWxH)	mm	kg
F155.C.300	30.000	3,00 – 4,60	Infinite	3,00 x 1,50 x 2,70	120	3900
F155.C.500	50.000	3,00 – 5,00	Infinite	4,05 x 1,80 x 3,20	150	4500
F155.C.700	70.000	3,00 – 5,00	Infinite	4,05 x 1,80 x 3,20	150	4600
F155.C.900	90.000	3,60 – 5,20	Infinite	4,70 x 2,40 x 3,40	250	9500

(*)on demand we can supply stands fit for reels with bigger diameter - (²) weight with no optional devices.

	Braking torque		Performances with drive opt. 408 (³)			
	with 1 brake (standard)	with 2 brakes (opt.423)	Braking		Recovering	
			Max torque	Speed	Max torque	Speed
	daN m	daN m	daN m	m/min	daN m	m/min
F155.C.300	200	400	700	25	600	15
F155.C.500	200	400	1600	25	1400	15
F155.C.700	200	400	1600	25	1400	15
F155.C.900	350	700	3000	25	2500	12

(³)powered by hydraulic unit mod. F306.21.CC

Performances of the machine without optional devices, at sea level and temperature 20°C.
Dimensions and weights are without optional devices. All data may change without notice. Images and drawings are indicative only.



F600 MAX LOAD 500/900 KN

Steel frame fit for unwinding/winding cable drums with the possibility to drive hydraulically the reel by means of the power supplied by a hydraulic power unit.

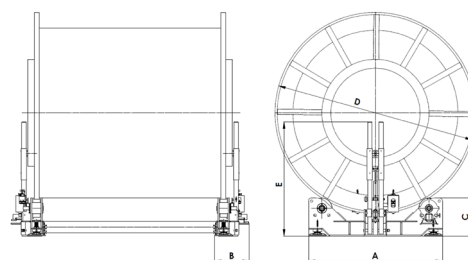
- No. 2 welded steel frames
- No. 4 supporting rollers on bearings
- Base-Frame arranged for the connection crossbars (See Opt. 950).
- Anchoring and /or fixing points
- No.4 adjustable stabilisers to level the frames (adjustable stroke up to 80 mm)

On request it is possible to change the characteristics of the base-frames.



OPTIONAL DEVICES

- 424x2** No.2 hydraulic motorizations mounted on the rollers (to be fed by hydraulic power unit F306.18.CC)
- 950** Fixed-type crossbars for the connection of the base-frames, suitable for max. 6 - meter wide drums
- 951** Telescopic-type crossbars for the connection of the base-frames, controlled by hydraulic power unit
- 951.1.1** Pair of extensions for optional device 951 allowing to adapt the telescopic device to wider drums. Extension length (standard) = 1 m
- 951.1.2** Pair of extensions for optional device 951 allowing to adapt the telescopic device to wider drums. Extension length = 2 m
- 955** Device to press the drum sides on the motorized rollers to grant a higher grip. Opt. 424x2 needed. Max drum width 6 m and max drum hole diameter 200 mm



	Reel diameter (D) min – max	Reel width max ⁽¹⁾	Dimensions of each frames (A x B x C)	Weight for each base-frame ⁽²⁾
	m	m ⁽¹⁾	m	kg
F600.500	3,50 – 4,50	-	3,50 x 0,70 x 0,70	2200
F600.900	3,50 - 6,00	-	4,50 x 1,00 x 0,90	4500

⁽¹⁾ Max drum width without Opt. 950/951: unlimited. ⁽²⁾ Weight without optional devices.

	Max. Capacity (Pair of base-frames)	Braking force ⁽³⁾	On drum diameter
	daN/Ton	daN ^(*)	mm
F600.500	50000 / 50	4000	3500
F600.900	90000 / 90	5000	3500

⁽³⁾ powered by hydraulic power units. ^(*) Indicative values, granted only with opt. 955 and 424x2.



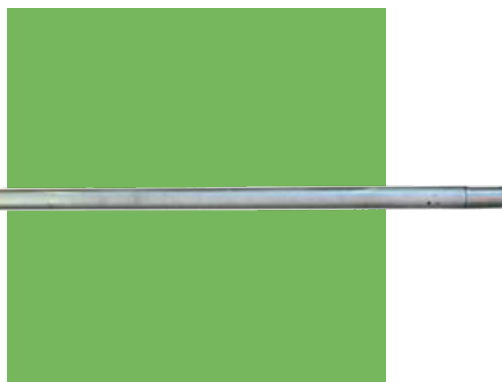
C141



Reel-stand with hydraulic lifting system controlled by pedal.
The stands are supplied in pairs.

	Max load	Reel diameter	Base	Shaft Ø	Weight
	kg	mm	mm	mm	kg
C141.18	1800	700-2000	42x30	60	24
C141.30	3000	800-2500	54x34	75	55
C141.50	5000	1000-3200	80x40	75	88
C141.100	10000	1350-3600	100x50	90	100

C141.A



Shaft made of galvanised steel tubular with ball bearings.

	Diameter	Length	Max load	Weight
	mm	mm	kg	kg
C141.A60.15	60	1500	1800	18,0
C141.A75.15	75	1500	5000	14,6
C141.A75.18	75	1800	5000	18,5
C141.A90.15	90	1500	10000	19,6
C141.A90.18	90	1800	10000	18,5
C141.A90.20	90	2050	10000	22,2

C141.B



Pairs of galvanised steel collars.

	for shaft Ø	Weight
	mm	kg
C141.B60	60	1,2
C141.B75	75	1,5
C141.B90	90	1,7

C141.C



Pairs of centering cone.

	for shaft Ø	for reel hole Ø	Weight
	mm	mm	kg
C141.C60	60	65-115	3
C141.C75	75	85-130	7
C141.C90	90	110-150	8,5



F10.50

Trailer fit to transport and unwind reels of cable weighing up to 4000 kg.



FEATURES

DIMENSIONS	6,40x3,30x2,60 m
TOTAL WEIGHT WITH DRUM	5000 kg
DRUM MAX DIAMETER	3000 mm
DRUM MAX WIDTH	1400 mm
PERFORMANCES WITH OPTIONAL DRIVE (OPT.408.4 or 408.5)	
PULLING FORCE	0 - 9 kN
PULLING SPEED	0 - 60 m/min

ALSO AVAILBLE TRAILERS WITH DIFFERENT CAPACITY

CONFIGURATION

- Framework made of 3 steel sections
- Spindle rotating on ball joints, with arm for close and drag the reel, and collars for wooden reel
- Safe mechanical locking in working position
- Mechanical locking of the spindle rotation for safe transport
- Hydraulic reel lift with hand pump
- Single rigid axle and rigid towing assembly
- Towing speed 40 Km/h
- 12V light system
- Hand parking brake for trailer
- Front support

OPTIONAL DEVICES

- 425** Mechanical back supports
- 007-A** Damped single axle, towing speed 60 km/h. Complete with ABS system
- 007-B** Damped single axle, towing speed 80 km/h. Complete with ABS system and pneumatic suspensions
- 029.2** Electric start of the diesel/gasoline engine, with battery
- 401** Devices fit for using steel reels with the reel-elevator
- 408.4** Hydraulic drive with quick connections for controlling the reel rotation both recovering and releasing cables, complete with power unit and gasoline engine
- 408.5** Hydraulic drive with quick connections for controlling the reel rotation both recovering and releasing cables, complete with power unit and diesel engine
- 410.1** Disk brake with manual regulation of the braking to keep under control the unwinding



F10.100

Trailer fit to transport and unwind reels of cable weighing up to 8000 kg.



FEATURES

DIMENSIONS	7,30x3,50x2,70 m
TOTAL WEIGHT WITH DRUM	10000 kg
DRUM MAX DIAMETER	3200 mm
DRUM MAX WIDTH	1500 mm
PERFORMANCES WITH OPTIONAL DRIVE (OPT.408.4 or 408.5)	
PULLING FORCE	0 - 9 kN
PULLING SPEED	0 - 60 m/min

ALSO AVAILBLE TRAILERS WITH DIFFERENT CAPACITY

CONFIGURATION

- Framework made of 3 steel sections
- Spindle rotating on ball joints, with arm for close and drag the reel, and collars for wooden reel
- Safe mechanical locking in working position
- Mechanical locking of the spindle rotation for safe transport
- Hydraulic reel lift with hand pump
- Single rigid axle and rigid towing assembly
- Towing speed 40 Km/h
- 12V light system
- Hand parking brake for trailer
- Front support

OPTIONAL DEVICES

- 425** Mechanical back supports
- 005.1** Damped tandem axle, towing speed 60 km/h. Complete with ABS system
- 005.3** Damped tandem axle, towing speed 80 km/h. Complete with ABS system and Pneumatic suspensions
- 029.2** Electric start of the diesel/gasoline engine, with battery
- 401** Devices fit for using steel reels with the reel-elevator
- 408.4** Hydraulic drive with quick connections for controlling the reel rotation both recovering and releasing cables, complete with power unit and gasoline engine
- 408.5** Hydraulic drive with quick connections for controlling the reel rotation both recovering and releasing cables, complete with power unit and diesel engine
- 410.1** Disk brake with manual regulation of the braking to keep under control the unwinding



F10.120

Trailer fit to transport and unwind reels of cable weighing up to 10000 kg.



FEATURES

DIMENSIONS	7,30x3,50x2,70 m
TOTAL WEIGHT WITH DRUM	12000 kg
DRUM MAX DIAMETER	3000 mm
DRUM MAX WIDTH	1600 mm
PERFORMANCES WITH OPTIONAL DRIVE (OPT.408.4 or 408.5)	
PULLING FORCE	0 - 9 kN
PULLING SPEED	0 - 60 m/min

ALSO AVAILABLE TRAILERS WITH DIFFERENT CAPACITY

CONFIGURATION

- Framework made of 3 steel sections
- Spindle rotating on ball joints, with arm for close and drag the reel, and collars for wooden reel
- Safe mechanical locking in working position
- Mechanical locking of the spindle rotation for safe transport
- Single rigid axle and rigid towing assembly
- Towing speed 40 Km/h
- Front support
- No brakes and No lights

OPTIONAL DEVICES

- 006.1** 12V light system
- 006.6** Hand parking brake for trailer
- 425** Mechanical back supports
- 438** Hydraulic reel lift with hand pump.
- 005.1** Damped tandem axle, towing speed 60 km/h. Complete with ABS system
- 005.3** Damped tandem axle, towing speed 80 km/h. Complete with ABS system and Pneumatic suspensions
- 029.2** Electric start of the diesel/gasoline engine, with battery
- 401** Devices fit for using steel reels with the reel-elevator
- 408.4** Hydraulic drive with quick connections for controlling the reel rotation both recovering and releasing cables, complete with power unit and gasoline engine
- 408.5** Hydraulic drive with quick connections for controlling the reel rotation both recovering and releasing cables, complete with power unit and diesel engine
- 410.1** Disk brake with manual regulation of the braking to keep under control the unwinding



F10.500

Trailer fit to transport and unwind reels of cable weighing up to 50000 kg.



REEL CHARACTERISTICS

DRUM MAX DIAMETER	5000 m
DRUM MAX WIDTH	2700 mm
DRUM MAX WEIGHT	50000 kg
TOTAL WEIGHT OF THE TRAILER WITH REEL	59000
PERFORMANCES WITH OPTIONAL DRIVE (OPT.408.4 or 408.5)	
MAX BRAKING TORQUE	750 daN
MAX RECOVERING TORQUE	500 daN

TRAILER CHARACTERISTICS

DIMENSIONS LxWxH	8,80x4,20x3,00 m
WEIGHT	9000 kg

CONFIGURATION

- Framework made of welded steel sections
- Hydraulic cylinders operated by hand pump for lifting the reel (opt.447, drum lifting from hydraulic power pack)
- Spindle rotating on ball bearings, with arm for close and drag the reel
- Safe mechanical locking in working position
- Mechanical locking of the reel rotation for safe transport
- No. 6 semi-axle shafts, tires and drawbar for towing at low speed in the workplace max 15 km/h
- Mechanical stabiliser on towing side
- Manual parking brake of the truck
- Disc brake with manual regulation of the braking to keep under control the unwinding, complete with dragger for reels (max braking torque 150 daNm)

OPTIONAL DEVICES

- | | |
|-------|---|
| 006 | Lights and braking system of the trailer |
| 008 | Suspensions on semi-axes, and pneumatic braking system, tyres and lights for towing on the road at 20 km/h (homologation excluded) |
| 401 | Devices fit for using steel reels with the reel-elevator (reel hole diameter to be specified) |
| 447 | Diesel engine with control pump of the hydraulic circuit for lifting the reel |
| 408.4 | Hydraulic drive with quick connections for controlling the reel rotation both recovering and releasing cables, complete with power unit and gasoline engine |
| 459 | Device that allows to tighten the trailer to a width "B" on the trailer min 2.5 m |
| 460 | Trailer adjustments fit for transporting drums with max width 3500 mm |
| 461 | Tail-stocks system for supporting the drum (instead of the shaft system) |
| 462 | Swivel and adjustable towing bar to facilitate the trailer handing in limited spaces |
| 463 | Steerable towing assembly complete with axle, wheels and towing arm on fifth wheel |



HYDRAULIC POWER UNITS



F306.09.CA

Hydraulic power unit with one hydraulic circuit (open type) fit to feed various equipment.



ENGINE

FEEDING	gasoline
POWER	9 hp / 6,6 kW
REVOLUTIONS PER MINUTE	2800 rpm
COOLING SYSTEM	air
STARTING	by rope
DIMENSIONS LXWXH	0,70x0,50x0,60 m
WEIGHT	68 kg

PERFORMANCES

WORKING PRESSURE	150 bar
CAPACITY	20 L/min
NOISE LEVEL	80 dbA

CONFIGURATION

- Control lever
- Manometer to control the pressure
- Quick couplings to connect hydraulic hoses
- Hydraulic oil tank
- Wheels with tow handle
- Protective frame

OPTIONAL DEVICES

- 028** Air cooled diesel engine
- 034** Engine electric starting with battery
- 078.1** Set of flexible hoses (available lengths 7,10,15 m)
- 080** Oil cooling system (needed for operating in hot environments)
- 090** Monophase electric motor 220 V, 3kW
- 090.1** Three-phase electric motor 380 V, 3 kW



F306.18.CC

Hydraulic power unit with one hydraulic circuit (closed type) fit to feed reel-stands drive.



ENGINE

FEEDING	gasoline
POWER	18 hp / 13,2 kW
REVOLUTIONS PER MINUTE	air
COOLING SYSTEM	12 V
STARTING	1,20x0,90x0,95 m
DIMENSIONS LXWXH	475 kg
WEIGHT	68 kg

PERFORMANCES

FIT FOR MOTORIZATIONS OF REEL-STANDS WITH CAPACITY	120-500 kN
PUMP DELIVERY (VARIABLE)	0-28 cm ³
WORKING PRESSURE	210 bar

ALSO AVAILABLE F306.21.CC

CONFIGURATION

- Control panel with joystick for puller use, dynamometer and preselector of max pull force, valve to adjust the tension force and control for unlocking the negative brake
- Group of quick couplings to connect the hydraulic hoses
- Rigid axle, tires, hand brake and drawbar for towing at low speed in the subsite
- Metallic cover with doors
- Oil cooling system

OPTIONAL DEVICES

- 011** Auxiliary hydraulic circuit for additional equipment (like hydraulic cylinders)
- 028.1** Water-cooled diesel engine (F306.18.CC only)
- 078.1** Set of flexible hoses (available lengths 7,10,15 m)



REELS & ROPES



21.12

Anti-twisting galvanised steel rope specifically designed for stringing operations. Made up of 12 braided strands. High resistant to break, antitwisting, flexible, safe and easy to handle. The linear contact between the braided strands grants a low stress on the rope. Supplied wound up on steel or wooden reels.



	Nominal diameter	Breaking load	Weight	Standard Lengths (*)	
	mm	kN	kg	m	
21.12.08	8	44	0,22	1000	on steel reel Ø 1100 mm Mod. F162.110
21.12.10	10	72	0,35	1000	
21.12.13	13	105	0,55	1000	
21.12.16	16	163	0,80	1000	
21.12.18	18	235	1,07	800	on steel reel Ø 1400 mm Mod. F162.140
21.12.20	20	268	1,24	1000	
21.12.22	22	330	1,56	900	
21.12.24	24	380	1,80	800	
21.12.28	28	480	2,80	500	

(*) other lengths on request

HIGH RESISTANCE (18 strands)

	Nominal diameter	Breaking load	Weight	Standard Lengths (*)	
	mm	kN	kg	m	
21.18.22	22	402	1,86	900	on steel reel Ø 1400 mm Mod. F162.140
21.18.24	24	490	2,34	800	
21.18.30	30	720	3,25	400	

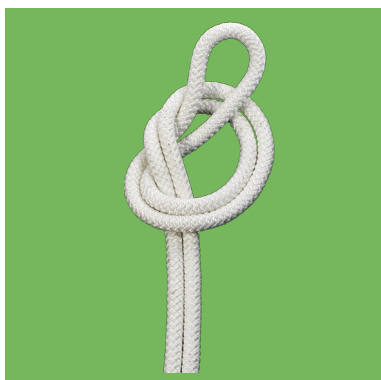
(*) other lengths on request

OPTIONAL DEVICES

- 146.2 Spliced eyes at both ends
- 146.3 Clamped eyes at both ends



22...1



Pilot rope made of an external polyester mesh stocking and a hi-tenacity nylon core. Double torsion. Highly resistant to wear and UV rays. white colour.
Supplied wound up on wooden reels or in coils.

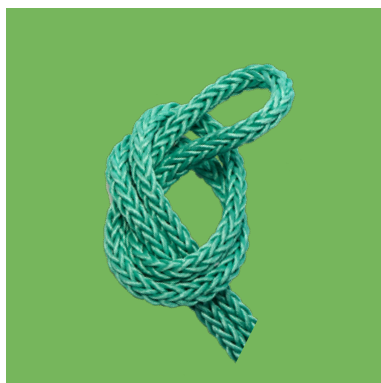
OPTIONAL DEVICES

- Clamped eyes with metallic collars at the ends (note: the clamped eyes have breaking load 30-35% lower than the rope)
- Sewn eyes (note: available up to Ø18 mm. The breaking load of the clamped eyes is the same as the breaking load of the rope)

	Nominal diameter	Elongation under tension		Breaking load	Weight	Standard Lengths (*)				
	mm	at 10 % BL ⁽¹⁾	at 30 % BL ⁽²⁾	daN	kg/m	m				
22.06.1	6	4%	7,5%	750	0,027	500	1000	1500	2000	3000
22.08.1	8	4%	7,5%	1.200	0,045	500	1000	1500	2000	3000
22.10.1	10	4%	7,5%	2.000	0,073	500	1000	1500	2000	3000
22.12.1	12	4%	7,5%	3.500	0,115	500	1000	1500	2000	3000
22.14.1	14	4%	7,5%	4.300	0,142	500	1000	1500	2000	
22.16.1	16	4%	7,5%	5.000	0,195	500	1000	1500	2000	
22.18.1	18	4%	7,5%	5.800	0,240	500	1000	1500		
22.20.1	20	4%	7,5%	6.500	0,295	500	1000	1500		
22.22.1	22	4%	7,5%	8.300	0,350	500	900			
22.24.1	24	4%	7,5%	9.500	0,410	500	800			

⁽¹⁾ elongation rate at 10% of breaking load ⁽²⁾ elongation rate at 30% of breaking load

22...2



Pilot rope made of polypropylene and polyester hi-tenacity 12-fuses mesh.
Light-weight, waterproof and UV resistant. Easy to splice without any special tool. Green colour. Supplied wound up on wooden reels or in coils.

OPTIONAL DEVICES

- Hand-spliced ends

	Nominal diameter	Elongation under tension	Breaking load	Weight	Standard Lengths (*)
	mm	at 50 % BL ⁽¹⁾	daN	kg/m	m
22.10.2	10	5%	1.500	0,040	1000
22.12.2	12	5%	2.300	0,060	1000
22.14.2	14	5%	2.800	0,075	1000
22.16.2	16	5%	3.300	0,088	1000
22.18.2	18	5%	4.500	0,120	1000
22.20.2	20	5%	5.500	0,150	1000
22.22.2	22	5%	6.200	0,165	800
22.24.2	24	5%	8.500	0,240	800



23...P



Rope with Dyneema-core and polyester covering. Supplied wound up on wooden reels or in coils.

OPTIONAL DEVICES

- Clamped eyes with metallic collars at the ends (note: the clamped eyes have breaking load 30-35% lower than the rope)
- Hand-spliced eyes
- Head stocking-grip with eyes
- Steel reel Ø 1100, 1400 or 1600 mm

	Nominal diameter	Elongation under tension (*)	Breaking load	Weight	Standard Lengths (*)
	mm	%	daN	kg/m	m
23.06.P	6	3%	3.100	0,050	500 1000 1500 2000 3000
23.08.P	8	3%	5.480	0,064	500 1000 1500 2000 3000
23.10.P	10	3%	8.210	0,078	500 1000 1500 2000 3000
23.12.P	12	3%	11.860	0,120	500 1000 1500 2000
23.14.P	14	3%	16.430	0,139	500 1000 1500 2000
23.16.P	16	3%	20.990	0,200	500 1000

(*) elongation rate at 8% of breaking load

23...D



High resistance dyneema rope. Light-weight and wear resistant. Supplied wound up on wooden reels or in coils.

OPTIONAL DEVICES

- Clamped eyes with metallic collars at the ends (note: the clamped eyes have breaking load 30-35% lower than the rope)
- Hand-spliced eyes
- Head stocking-grip with eyes
- Steel reel Ø 1100, 1400 or 1600 mm

	Nominal diameter	Elongation under tension	Breaking load	Weight	Standard Lengths (*)
	mm	at 2 %	daN	kg/m	m
23.06.D	6	3%	4.000	0,02	500 1000 1500 2000 3000
23.08.D	8	3%	6.000	0,03	500 1000 1500 2000 3000
23.10.D	10	3%	9.000	0,05	500 1000 1500 2000 3000
23.12.D	12	3%	13.000	0,07	500 1000 1500 2000
23.14.D	14	3%	18.000	0,08	500 1000 1500 2000
23.16.D	16	3%	23.000	0,12	500 1000 1500 2000
23.18.D	18	3%	29.000	0,17	500 800 1000
23.20.D	20	3%	36.500	0,20	500 800 1000

(*) elongation rate at 8% of breaking load

Performances of the machine without optional devices, at sea level and temperature 20°C.
Dimensions and weights are without optional devices. All data may change without notice. Images and drawings are indicative only.

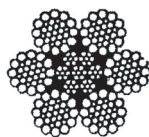


C02...AC

Bright steel rope 216 wires + steel core. Construction 6 (14+7/7+7+1)
WS+WR. Right and left crossed.
UNI 7297-74. Resistance of wires: 180 kg/mm².

OPTIONAL

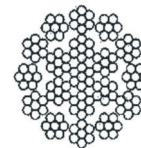
- Galvanization



Nominal diameter	Wires diameter	Breaking load	Weight
mm	mm	kN	kg/m
6	0,38	27,2	0,15
8	0,50	47,3	0,28
10	0,62	75	0,43
11	0,68	89	0,52
12	0,75	108	0,62
14	0,77	131	0,82
16	0,88	168	1,07
18	0,99	220	1,35
20	1,10	270	1,68
22	1,22	320	2,03
24	1,33	380	2,40
26	1,44	450	2,83
28	1,55	504	3,30
30	1,66	600	3,80
32	1,77	670	4,33

C02...LR

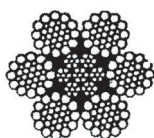
Bright steel rope 133 wires. Construction 19x7.
Lang lay or regular lay. Resistance of wires 200 kg/mm².



Rope diam.	Wires diam.	Sect.	Breaking load	Weight
mm	mm	mm ²	kN	kg/m
Lang lay				
6	0,38	16,5	26	0,15
8	0,51	29,3	48,1	0,27
10	0,64	45,7	72,1	0,41
11	0,70	55,3	87,2	0,50
12	0,76	65,8	104	0,60
13	0,83	77,3	122	0,70
14	0,89	89,6	141	0,81
16	1,02	117	185	1,06
18	1,15	148	234	1,34
Regular lay				
20	1,27	183	288	1,66
22	1,40	221	349	2,01
24	1,53	263	415	2,39
26	1,65	309	487	2,81

C02...AR

Bright steel rope 216 wires "compacted strands", high resistance, with metal core.
Resistance of wires: 220 kg/mm²



Nominal diameter	Wires diameter	Breaking load	Weight
mm	mm	kN	kg/m
10	0,59	90,2	0,45
11	0,66	111	0,55
12	0,72	132	0,67
13	0,78	153	0,78
14	0,84	176	0,90
16	0,96	240	1,18
18	1,08	294	1,48
20	1,20	367	1,85
22	1,32	443	2,25
24	1,41	525	2,50
26	1,53	613	3,04
28	1,64	704	3,64
30	1,76	809	4,20

C02...AT

Bright steel rope. Construction 35x7. Resistance of wires 220 kg/mm².



Nominal diameter	Wires diameter	Breaking load	Weight
mm	mm	kN	kg/m
8	0,40	49,2	0,26
10	0,50	77	0,42
12	0,60	110,8	0,60
14	0,70	150,9	0,82
16	0,80	197,1	1,07
18	0,90	249,4	1,36
20	1,00	308	1,68
22	1,10	372,6	2,03
24	1,20	443,5	2,42
26	1,30	520,5	2,84
28	1,40	603,6	3,29
30	1,40	693	3,78



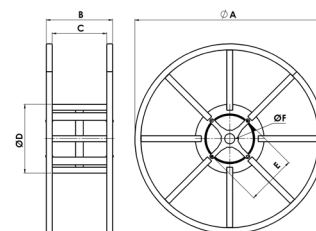
F162

Welded and painted steel reel.

OPTIONAL DEVICES

- 02 Pair of standard dials
- 03 Pair of dials equipped with ball bearings
- 04 Reinforced reel, made of square tubular (30% heavier than the standard version)

	Dimensions mm						Weight (without rope)
	A	B	C	D	E	F	kg
F162.075	750	530	460	245		50	38
F162.110	1100	560	460	570	420	50	66
F162.140	1400	560	460	570	420	50	105
F162.160	1600	560	460	570	420	50	120
F162.190	1900	560	460	570	420	50	140
F162.220	2200	1560	1400	1010	420	100	950



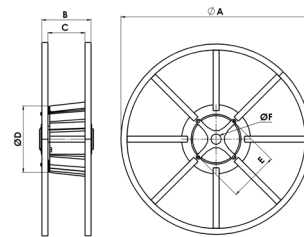
F164

Welded and painted steel conical reel with openable side.

OPTIONAL DEVICES

- 02 Pair of standard dials
- 03 Pair of dials equipped with ball bearings
- 05 Drum core covered with steel sheet

	Dimensions mm						Weight (without rope)
	A	B	C	D	E	F	kg
F164.075	750	530	460	245		50	50
F164.110	1100	560	460	570	420	50	85
F164.140	1400	560	460	570	420	50	115
F164.160	1600	560	460	570	420	50	130
F164.190	1900	560	460	570	420	50	220
F164.220	2200	1310	1170	1010	420	100	1050



REEL CAPACITY (meters of rope)						
Rope diameter (mm)	F162.060 F164.060	F162.110 F164.110	F162.140 F164.140	F162.160 F164.160	F162.190 F164.190	F162.220 F164.220
6	2000	6300	13000	17000	25000	-
7	1500	4500	9000	12000	18000	-
8	1200	3500	6000	5500	14000	-
9	900	2800	5400	7500	11000	-
10	800	2300	4400	6000	9000	33000
11	500	1900	3600	5000	7500	31000
12	450	1600	3000	4200	6000	22000
13	400	1400	2600	3600	5400	19000
14	300	1250	2200	3000	4600	16000
16	250	1000	1700	2400	3500	13000
18	-	800	1300	1900	2800	10000
20	-	650	1100	1600	2200	8000
22	-	500	900	1200	1900	6000
24	-	-	750	1000	1500	5000
26	-	-	650	900	1300	4500
28	-	-	560	800	1100	4000
30	-	-	490	700	1000	3500
32	-	-	430	600	850	3000



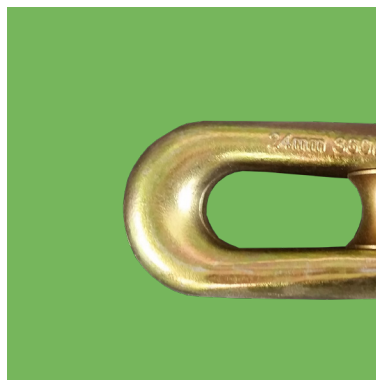
ACCESSORIES



GF..00

Joint made of high tensile galvanised steel, fit to connect pilot rope lengths and pulling rope. Designed to pass on the capstan grooves of pullers or puller/tensioners.

	Dimensions mm				for rope R	W.L.L Ø mm	kN	Weight kg
	A	H	B	Ø				
GF.10.00	68	14	36	17	13	10/12	23	0,20
GF.13.00	76	17	37	21	15	13/14	37	0,30
GF.16.00	96	19	50	22	20	16	53	0,60
GF.18.00	110	25	56	24	22	18/20	73	0,90
GF.24.00	125	26,5	60	28	24	22/24	120	1,30
GF.26.00	168	30	72	38	30	26/28	250	3,00
GF.32.00	178	35	80	44	34	28/32	280	3,50



F250.R

Swivel joint for ropes and conductors. Designed to release the torsion efforts during the pulling operations. Made of galvanised steel, complete with an axial bearing for an easy rotation.

	Dimensions mm			for rope Ø mm	W.L kN	Weight kg
	A	B	C			
F250.R.06.1	60	18	8,5	7	4	0,10
F250.R.08.1	96	24	12	9	8	0,22
F250.R.12.1	142	32	13	14	25	0,50
F250.R.13.1	152	39	17	16	40	1,00
F250.R.16.1	177	45	20	18	63	1,20
F250.R.18.1	243	52	22	22	80	2,60
F250.R.24.1	260	60	25	26	130	3,30
F250.R.28.1	322	77	31	28	260	7,00
F250.R.32.1	337	80	36	32	280	8,50





C08

Dead end stocking for pulling underground cables.
Long stocking type art. C08.L also available.



	Ø cable min - max	Length ⁽¹⁾	Stocking length ⁽²⁾	Breaking load
	mm	mm	mm	kg
C08.01	10-15	600	900	2000
C08.02	15-20	600	900	2000
C08.03	20-25	600	1000	2500
C08.04	25-30	600	1200	3000
C08.05	30-40	700	1500	4500
C08.06	25-45	700	1500	5000
C08.07	40-50	800	1500	5000
C08.08	45-60	800	1600	5000
C08.09	60-80	800	1800	8000
C08.10	80-100	1000	2000	10000
C08.11	100-140	1200	2000	10000
C08.12	140-170	1200	2000	10000
C08.13	170-200	1200	2000	10000

C09

Joining stocking for pulling underground cables.



	Ø cable min - max	Length	Breaking load
	mm	mm	kg
C09.01	10-15	1200	2000
C09.02	15-20	1200	2000
C09.03	20-25	1200	2500
C09.04	25-30	1200	3000
C09.05	30-40	1400	5000
C09.06	25-45	1400	5000
C09.07	40-50	1600	5000
C09.08	45-60	1600	5000
C09.09	60-80	1600	8000
C09.10	80-100	2000	10000
C09.11	100-140	2400	10000
C09.12	140-170	2400	10000
C09.13	170-200	2400	10000

C10

Double eye stocking for pulling underground cables.



	Ø cable min - max	Length	Breaking load
	mm	mm	kg
C10.01	10-15	800	2000
C10.02	15-20	800	2000
C10.03	20-25	800	2500
C10.04	25-30	800	3000
C10.05	30-40	1000	4500
C10.06	25-45	1000	5000
C10.07	40-50	1000	5000
C10.08	45-60	1000	5000
C10.09	60-80	1000	8000
C10.10	80-100	1200	10000
C10.11	100-140	1400	10000
C10.12	140-170	1400	10000
C10.13	170-200	1400	10000

C11

Double eye stocking with open sleeve for pulling underground cables.



	Ø cable min - max	Length	Breaking load
	mm	mm	kg
C11.01	10-15	800	2000
C11.02	15-20	800	2000
C11.03	20-25	800	2500
C11.04	25-30	800	3000
C11.05	30-40	1000	4500
C11.06	25-45	1000	5000
C11.07	40-50	1000	5000
C11.08	45-60	1000	5000
C11.09	60-80	1000	8000
C11.10	80-100	1200	10000
C11.11	100-140	1400	10000
C11.12	140-170	1400	10000
C11.13	170-200	1400	10000



C108.A

Galvanised steel cable roller.



FEATURES

MAX LOAD	180 kg
MAX CABLE	Ø 120 mm
ROLLER	Ø 70/110 x 185 mm
DIMENSIONS	300 x 240 x 250 mm
WEIGHT	4,1 kg

C108.A1

Heavy version with shielded bearings.



FEATURES

MAX LOAD	400 kg
MAX CABLE	Ø 200 mm
ROLLER	Ø 80/130 x 280 mm
DIMENSIONS	300 x 300 x 260 mm
WEIGHT	7,1 kg

C108.B

Aluminium cable roller with galvanised steel base.



FEATURES

MAX LOAD	200 kg
MAX CABLE	Ø 120 mm
ROLLER	Ø 75/115 x 175 mm
DIMENSIONS	300 x 240 x 250 mm
WEIGHT	4,5 kg

C108.C

Straight cable roller with 3 aluminium rollers.



FEATURES

MAX LOAD	200 kg
MAX CABLE	Ø 150 mm
ROLLER	Ø 50/60 x 100 mm
DIMENSIONS	250 x 250 x 250 mm
WEIGHT	4,9 kg

C108.E

Galvanised horizontal cable roller.



FEATURES

MAX LOAD	400 kg
MAX CABLE	Ø 120 mm
ROLLER	Ø 75/110 x 800 mm
DIMENSIONS	850 x 250 x 250 mm
WEIGHT	13 kg

C108.E1

Heavy version shielded bearings.



FEATURES

MAX LOAD	1000 kg
ROLLER	Ø 80 x 950 mm
DIMENSIONS	1000 x 250 x 250 mm
WEIGHT	22 kg

C108.F

Galvanised cable guiding run-off frame.



FEATURES

MAX LOAD	300 kg
ROLLER	Ø 35 x 620 mm
DIMENSIONS	1050 x 470 x 520 mm
WEIGHT	14 kg

C108.F1

Heavy version with shielded bearings.



FEATURES

MAX LOAD	1000 kg
ROLLER	Ø 80 x 700 mm
DIMENSIONS	1200 x 600 x 450 mm
WEIGHT	28 kg



C109.A

C109.A Galvanised steel cable roller.

C109.A1 Heavy version with shielded bearings



	max load	max cable	rollers	dimensions	weight
	kg	mm	mm	mm	kg
C109.A	300	Ø 120	Ø 83x200	370x330x420	17
C109.A1	1000	Ø 200	Ø 90x250	400x360x420	27

C109.B

C109.B Galvanised steel corner roller

C109.B1 Version with aluminium rollers

C109.B2 Heavy version with shielded bearings



	max load	max cable	rollers	dimensions	weight
	kg	mm	mm	mm	kg
C109.B	300	Ø 120	Ø75/110x185	550x340x370	14
C109.B1	350	Ø 120	Ø70/130x170	550x340x370	17
C109.B2	1000	Ø 200	Ø80/130x280	600x400x420	31

C109.C

Chain of rollers for bends made of 12 horizontal rollers and 6 vertical rollers. Made of galvanised steel.



	max load	rollers	dimensions	weight
	kg	mm	mm	kg
C109.C	200	Ø 32x180	230x1300	28

C109.D

Galvanised chain rollers.



	max load	rollers	rollers	dimensions	weight
	kg	mm	n°	mm	kg
C109.D.3	100	Ø 32x185	3	420x230x120	4
C109.D.4	100	Ø 32x185	4	540x230x120	4,5
C109.D.5	100	Ø 32x185	5	670x230x120	5
C109.D.6	100	Ø 32x185	6	820x230x120	6

C109.E

C109.E Galvanised roller guide with swivel angled base

C109.E1 Heavy version in painted steel



	max load	rollers	dimensions	weight
	kg	mm	mm	kg
C109.E	120	Ø 75/110x130	350x250x210	5,8
C109.E1	200	Ø 135/205x80	315x250x230	18,2

Performances of the machine without optional devices, at sea level and temperature 20°C.
Dimensions and weights are without optional devices. All data may change without notice. Images and drawings are indicative only.



C109.G

C109.G Galvanised triple guide roller for manholes
C109.G1 Version with aluminium rollers



	rollers	dimensions	weight
	mm	mm	kg
C109.G	Ø75/110x180	500x220x400	13
C109.G1	Ø70/130x170	500x220x400	17

C109.H

Adjustable boom with aluminium cable roller.



	rollers	boom length	weight
	mm	mm	kg
C109.H.1	Ø110/210x110	300-500	9,5
C109.H.2	Ø110/210x110	500-800	10
C109.H.3	Ø110/210x110	600-1000	13
C109.H.4	Ø110/210x110	1000-1500	16
C109.H.5	Ø110/210x110	1500-1800	18
C109.H.6	Ø110/210x110	1800-2400	23

C109.I

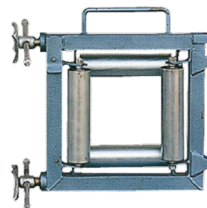
Adjustable boom with aluminium cable roller.



	rollers	boom length	weight
	mm	mm	kg
C109.I.1	Ø110/210x110	300-500	12
C109.I.2	Ø110/210x110	500-800	15
C109.I.3	Ø110/210x110	600-1000	19
C109.I.4	Ø110/210x110	1000-1500	24
C109.I.5	Ø110/210x110	1500-1800	27
C109.I.6	Ø110/210x110	1800-2400	30

C109.L

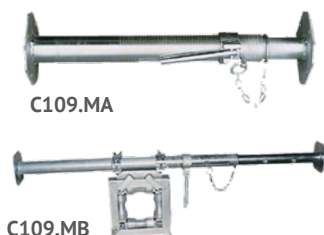
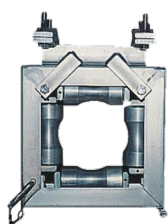
Cable guiding device with 4 protection rollers.



	passage between rollers	rollers	dimensions	weight
	mm	mm	mm	kg
C109.L	250	Ø 60	550x130x500	15

C109.M

C109.M Cable guiding device with 4 protection rollers
C109.MA Adjustable boom for cable guiding device C109.M
C109.MB Cable guiding device with 4 protection rollers Ø 60 mm (C109.M), complete with adjustable boom (C109.MA)



	passage between rollers	rollers	dimensions	weight
	mm	mm	mm	kg
C109.M	250	Ø 60	550x130x500	15

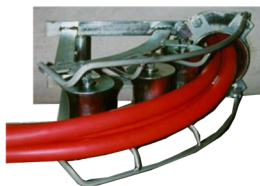
	boom length	weight		boom length	weight
	mm	kg		mm	kg
C109.MA.1	500-800	7	C109.MB.1	500-800	10
C109.MA.2	600-1000	10	C109.MB.2	600-1000	13
C109.MA.3	1000-1700	12	C109.MB.3	1000-1700	15
C109.MA.4	1400-2400	14	C109.MB.4	1400-2400	17

Performances of the machine without optional devices, at sea level and temperature 20°C.
Dimensions and weights are without optional devices. All data may change without notice. Images and drawings are indicative only.



C110.A

Galvanised steel cable and rope entrance device.



	bending radius	Ø socket	weight
	mm	mm	kg
C110.A.07	420	75	16,5
C110.A.09	420	90	17,0
C110.A.10	420	101	17,5
C110.A.12	420	114	18,0
C110.A.15	420	152	18,5
C110.A.17	420	168	19,0

C110.B

Galvanised steel cable and rope entrance device.



	bending radius	Ø socket	weight
	mm	mm	kg
C110.B.07	1000	75	22,0
C110.B.09	1000	90	22,5
C110.B.10	1000	101	23,0
C110.B.12	1000	114	23,7
C110.B.15	1000	152	24,5
C110.B.17	1000	168	25,0

C110.C

Galvanised spare socket for rope entrance devices C110.A and C110.B.



	Ø external	weight		Ø external	weight
	mm	kg		mm	kg
C110.C.07	75	1,0	C110.C.12	114	1,9
C110.C.09	90	1,5	C110.C.15	152	2,0
C110.C.10	101	1,7	C110.C.17	168	2,1

C110.M

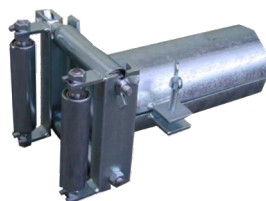
Galvanised cable protector with roller.



	Ø external	weight		Ø external	weight
	mm	kg		mm	kg
C110.M.05	51	4,0	C110.M.10	114	6,0
C110.M.06	61	4,2	C110.M.12	133	7,0
C110.M.07	75	4,5	C110.M.13	140	7,3
C110.M.09	89	5,0	C110.M.15	152	7,5

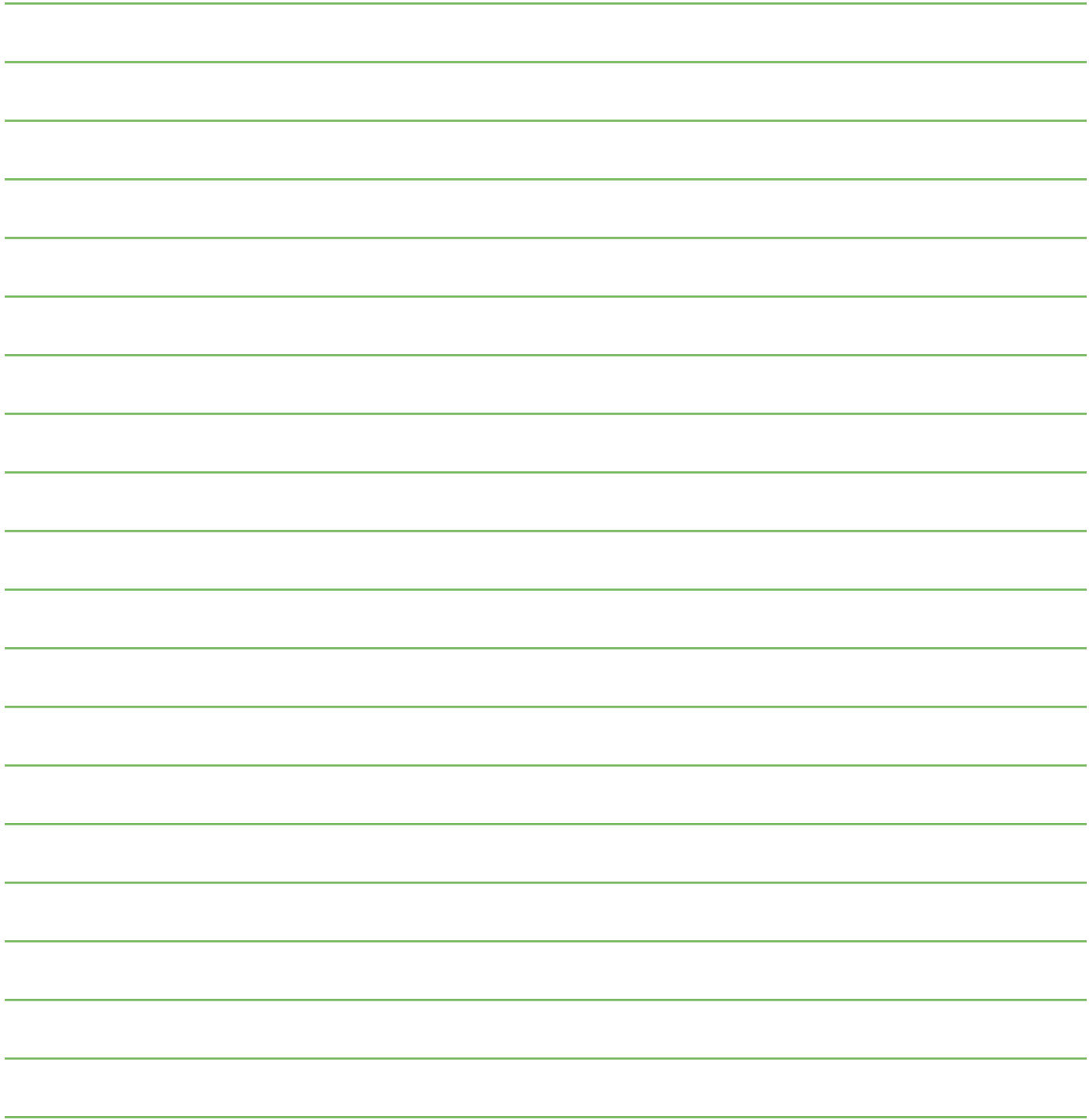
C110.P

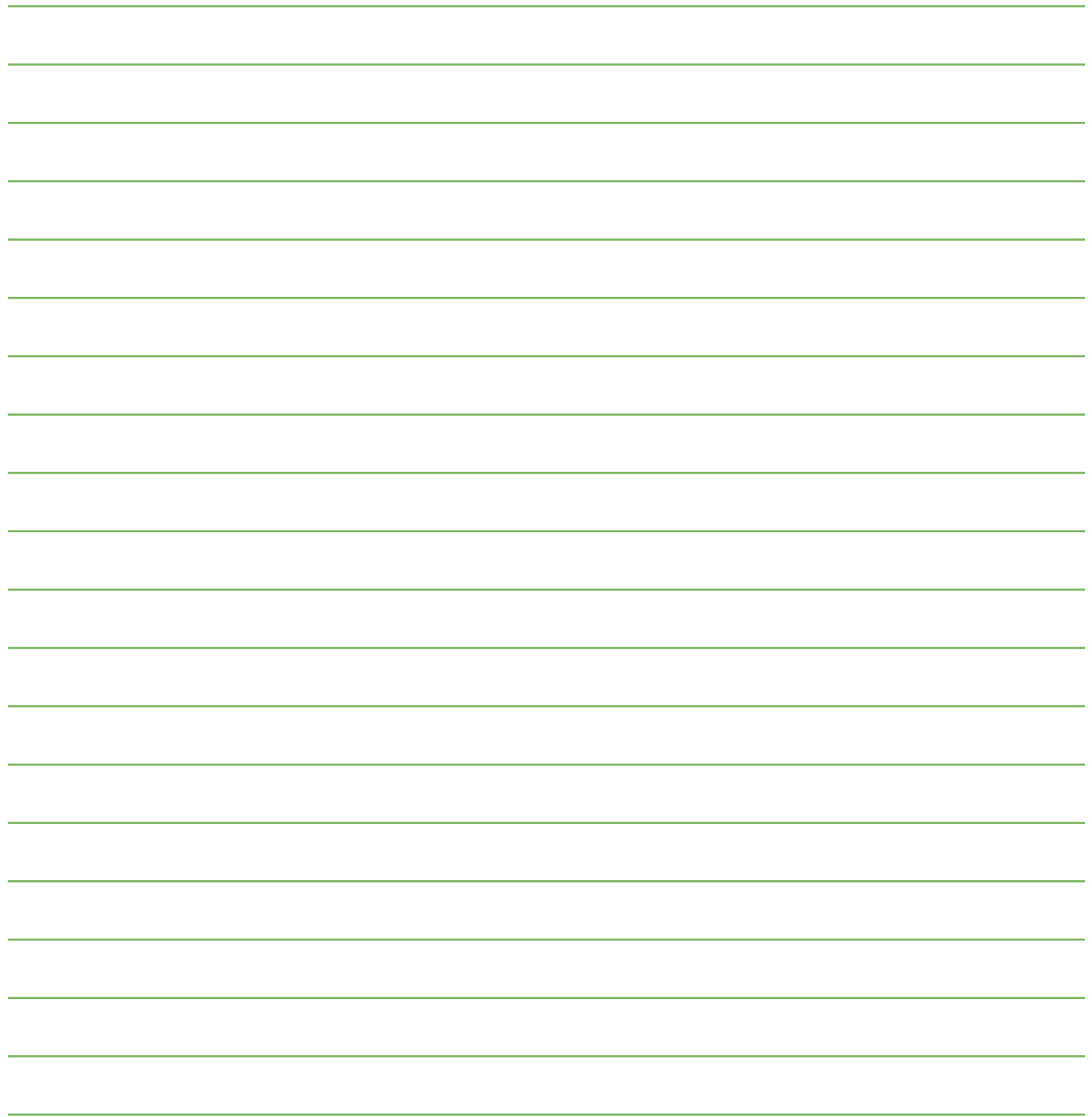
Galvanised cable entrance device with adjustable double protection.

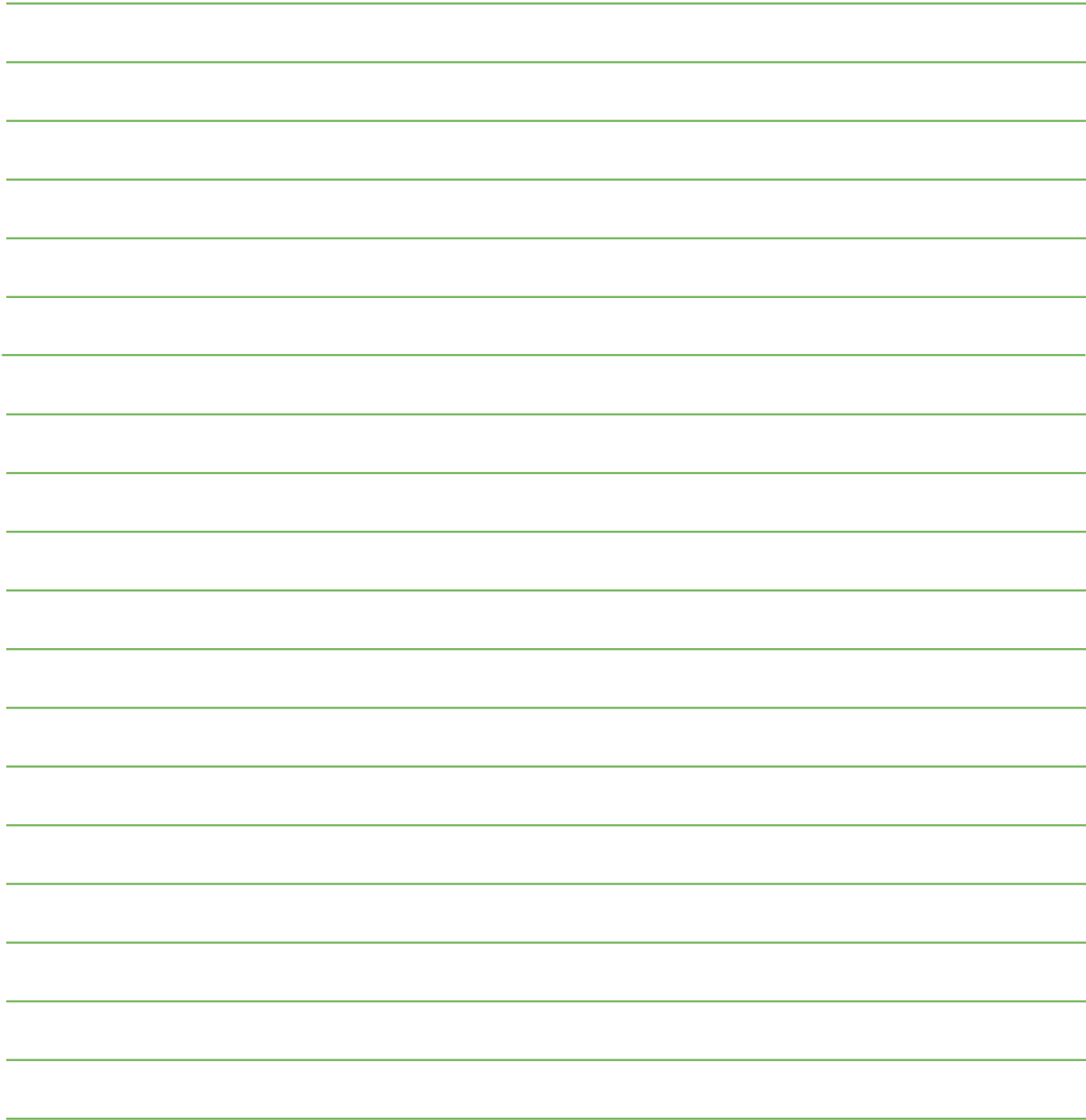


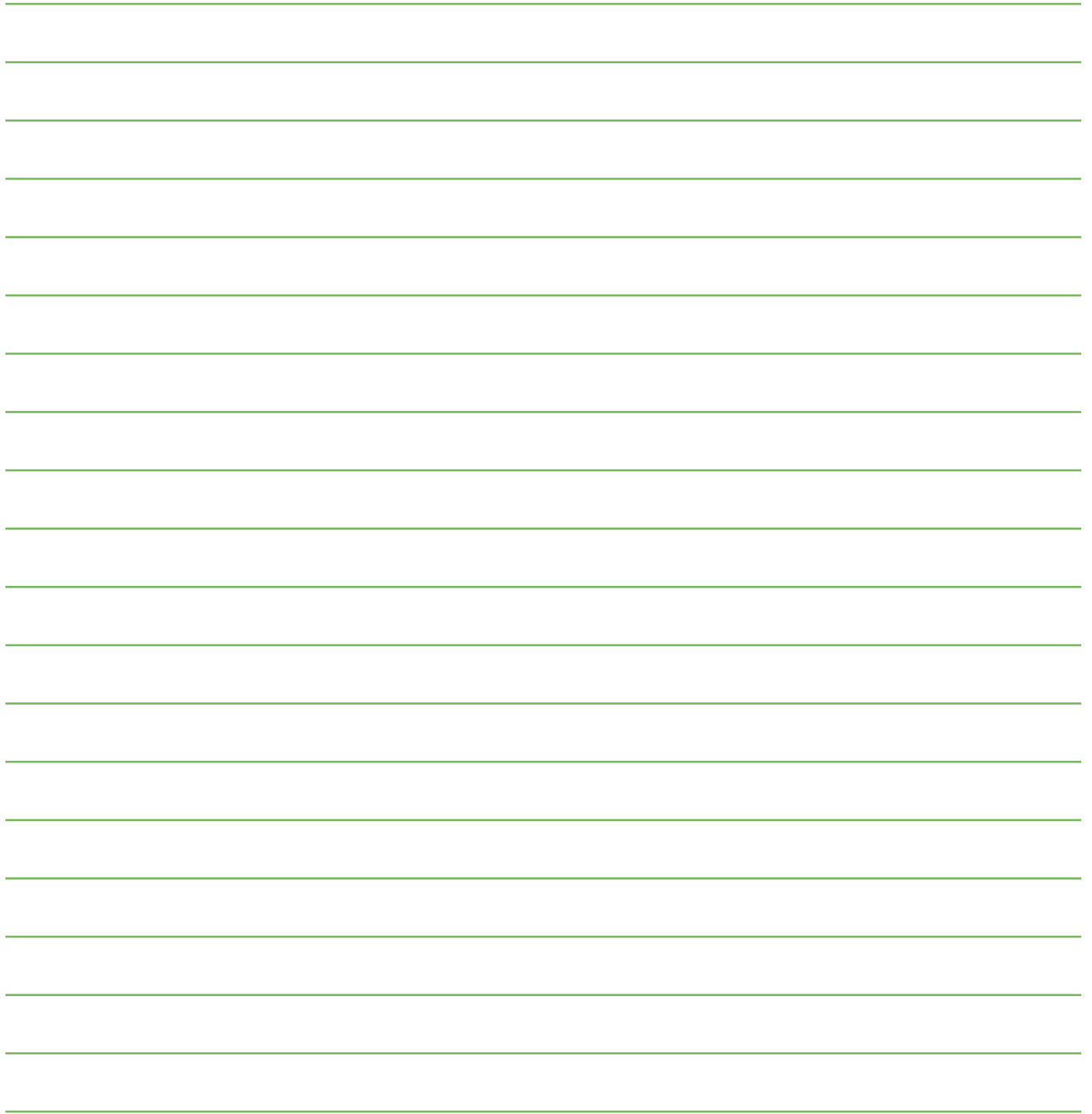
	Ø external	weight		Ø external	weight
	mm	kg		mm	kg
C110.P.05	51	2,5	C110.P.13	140	6,4
C110.P.07	76	3,5	C110.P.15	152	6,6
C110.P.09	89	4,2	C110.P.17	168	7,4
C110.P.10	114	5,0	C110.P.20	194	8,3
C110.P.12	133	6,2			

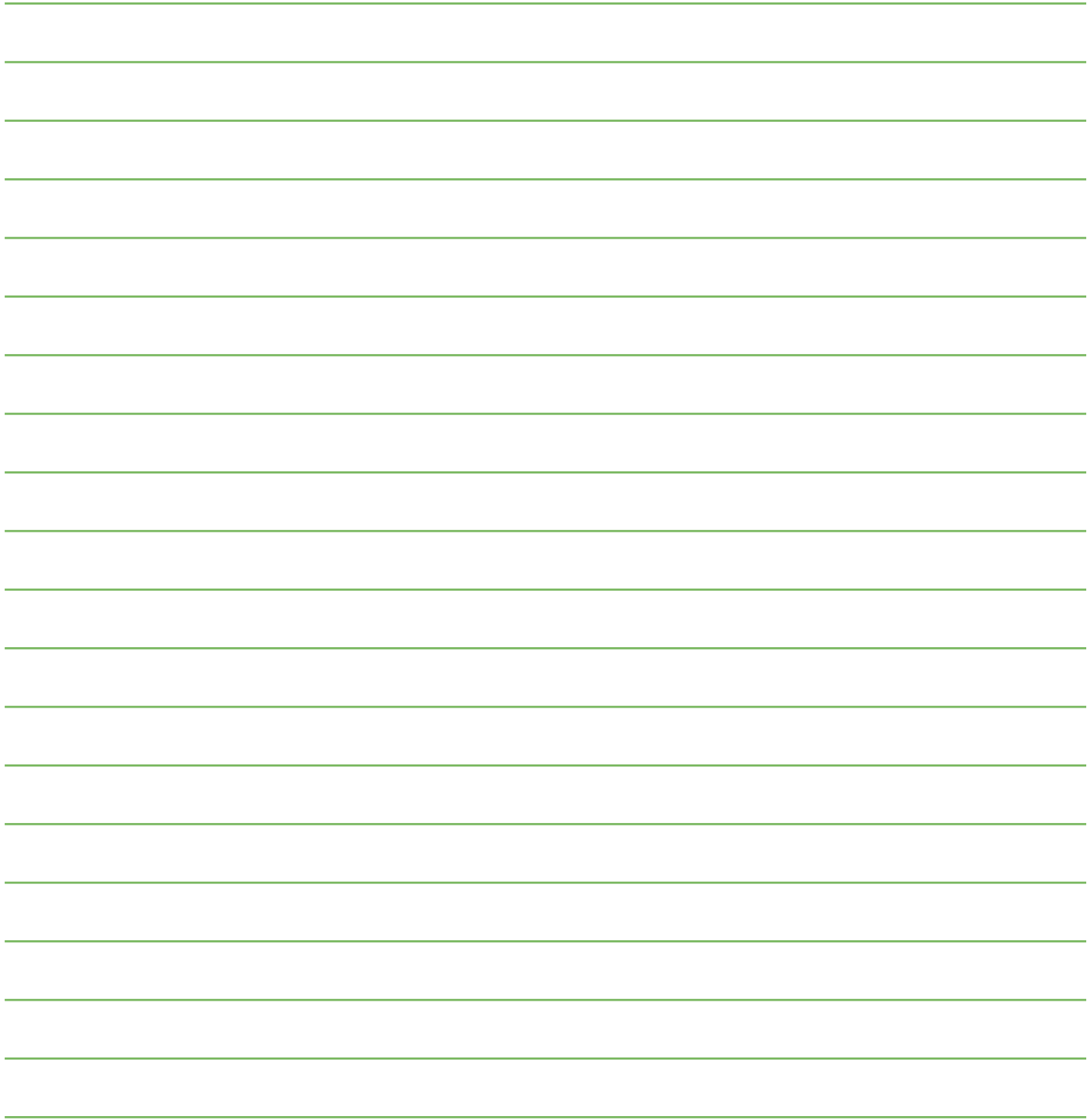
This image shows a blank sheet of white paper with horizontal green ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

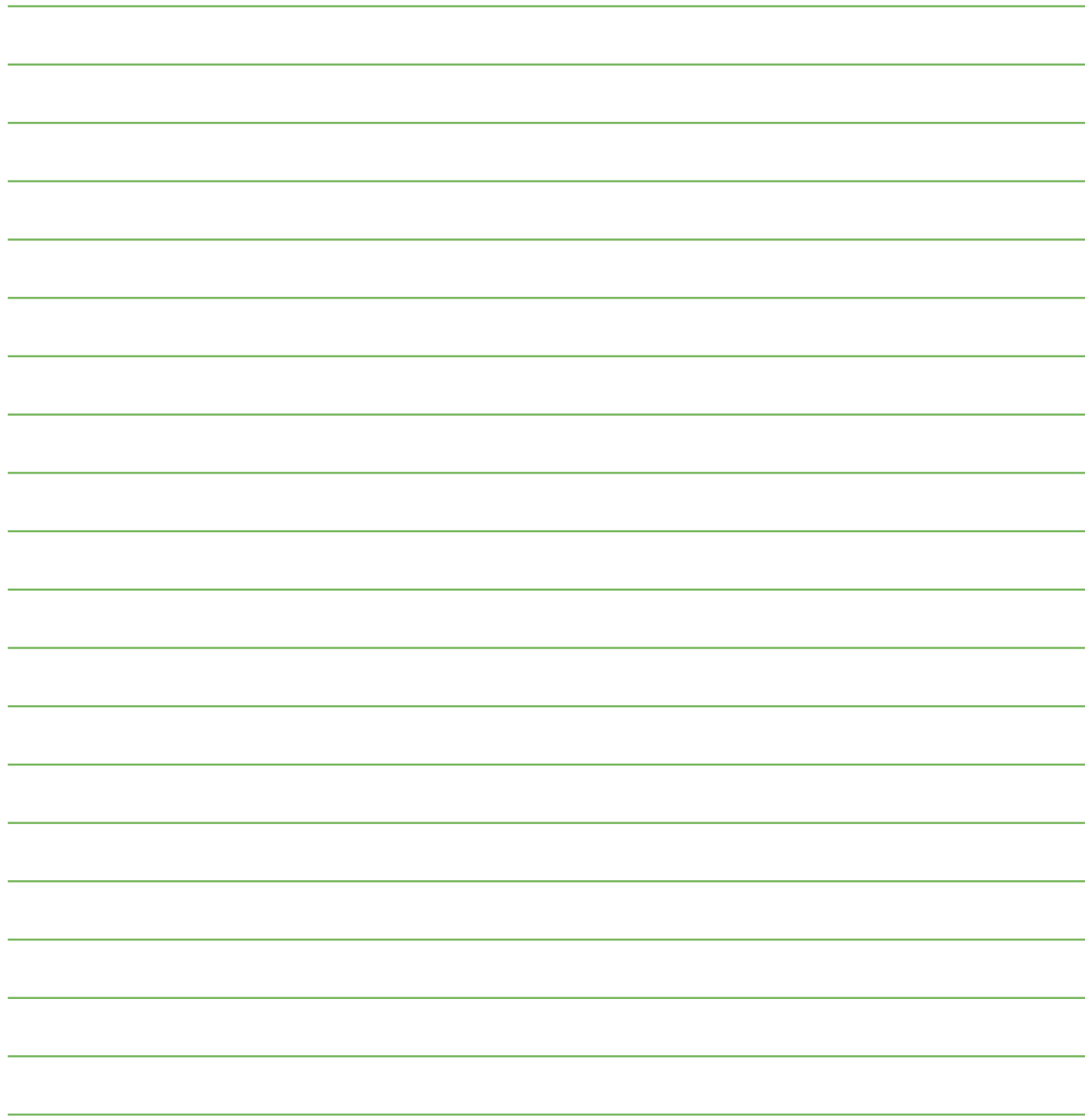


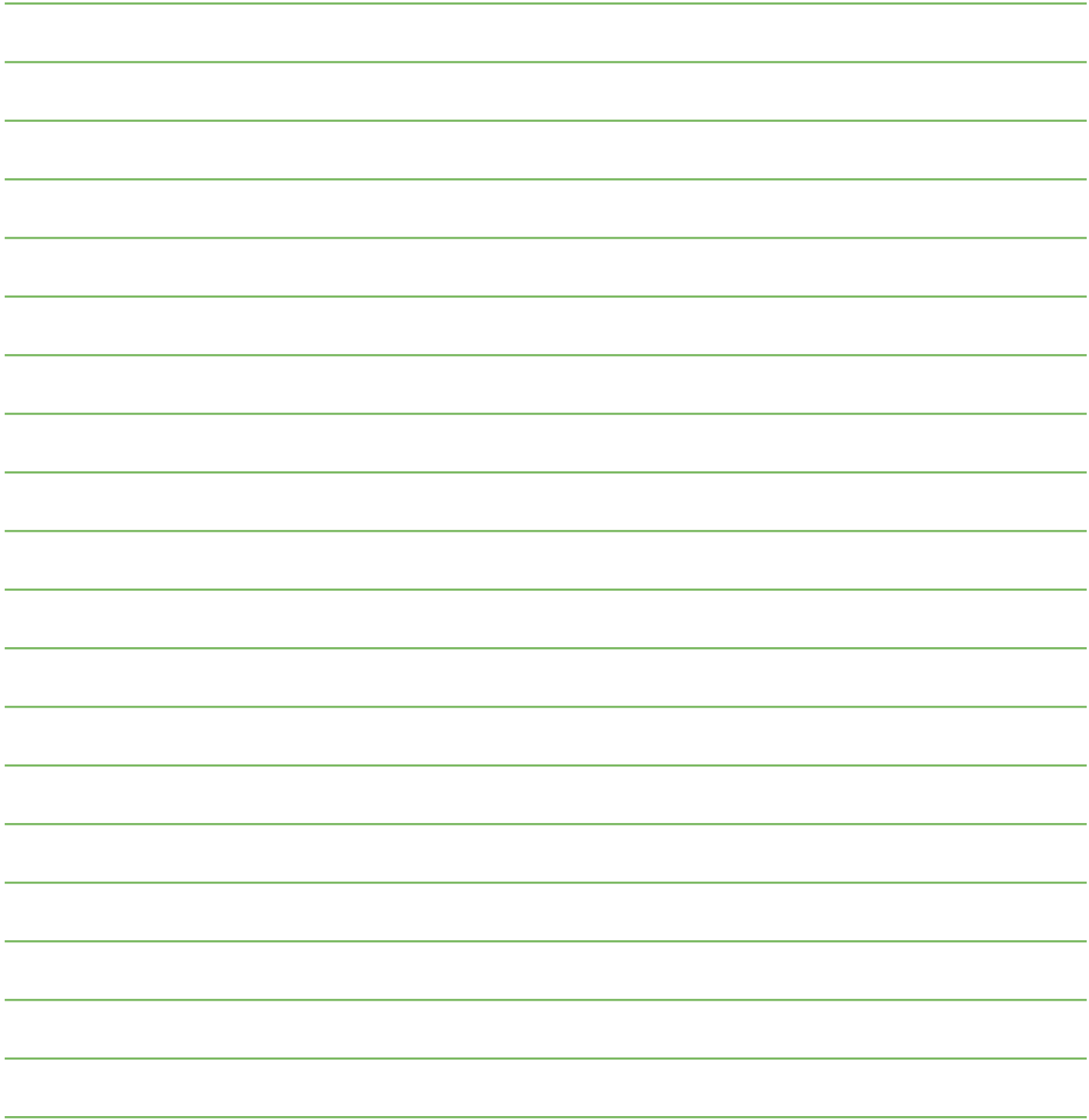














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