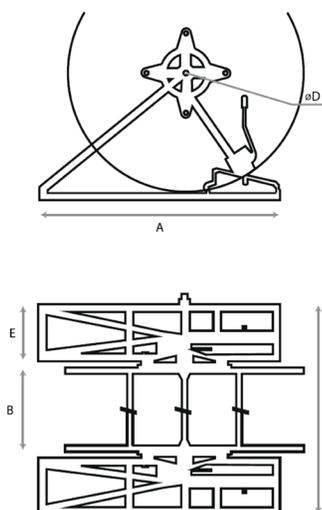


3

REEL-STANDS AND REEL-TRAILERS

F155 reel-stands max load 70 to 180 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.



Opt.410.3

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).
 419.2 Automatic rope-winder, fit to stratify the different diameters of rope on the reels of different width (available for mod. F155.120 and bigger).

	Reel diameter min-max (*)	Reel width max	Spindle diameter	Dimensions of each reel-stand	Weight of the pair of reel-stands (2)
	m	m	mm	m (A x E)	kg
F155.070	0,80-2,80	1,50	45	2,10 x 0,50	350
F155.100	1,50-3,20	1,70	55	2,40 x 0,55	540
F155.120	2,00-3,50	2,40	65	2,60 x 0,60	850
F155.150	2,00-4,00	3,00	95	3,10 x 0,60	1100
F155.180	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.

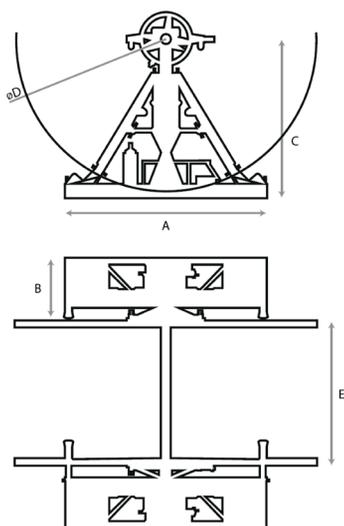


Opt.408

	Max load of the pair	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	km/h	
F155.070	7000	150	300	—	225	180	5
F155.100	10000	230	460	600	280	230	5
F155.120	12000	230	460	800	280	230	5
F155.150	15000	230	460	1000	312	250	5
F155.180	18000	280	560	1200	375	300	5

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

F155.A reel-stands 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.
- 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 or two disc brakes with hydraulic clamp controlled by manual pump.
- 419.2 Automatic rope-winder, fit to stratify the different diameters of rope on the reels of different width (note: it needs to be powered by hydraulic power unit).
- 423 Additional disk brake (2 brakes in total).
- 424 Drive of reel rotation, either recovering or releasing the conductors, by means of friction tires located on the sides of the reel. The power to the drive group can be supplied by a puller-tensioner or hydraulic power unit.
- 424x2 Double hydraulic drive.
- SP2 Basement to raise up the stand, for fitting reels with diameter up to 6 m.

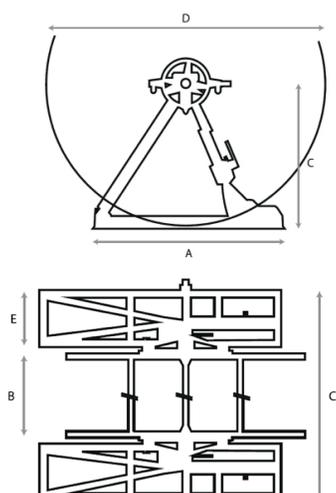
	Reel diameter min – max (D) m	Reel max width (E) m	Dimensions of each reel-stand (A x B) m	Spindle diameter min – max (1) mm	Weight of a pair of reel-stands (2) kg
F155.A.300	3,00 – 4,60	2,80	2,80 x 0,70	100 - 140	1600
F155.A.500	3,50 – 4,80	3,60	3,10 x 0,90	120 - 160	2400

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

	Max load of a pair of reel-stands daN	Braking torque		Performances with hydraulic driven opt. 408 or 424				
		with 1 brake (standard) daN m	with 2 brakes (opt. 423) dan M	Max torque in braking		Max torque in recovering		Max speed (3) m/min
				opt.408 daN m	w/ opt.424 daN m	opt.408 daN m	opt.424 daN m	
F155.A.300	30.000	175	350	600	300	500	250	50
F155.A.500	50.000	200	400	1600	500	1400	400	15

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

F155.B reel-stands max load 300/500 kN



opt.408



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.
- 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 (optional: two disk brakes – opt.423).

ALSO AVAILABLE F155.B.400 (40 TON MAX)

OPTIONAL

- 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 (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 or two disc brakes with hydraulic clamp controlled by manual pump.
 419.2 Automatic rope-winder, fit to stratify the different diameters of rope on the reels of different width (note: it needs to be powered by hydraulic power unit).
 423 Additional disk brake (2 brakes in total).
 SP2 Basement to raise up the stand, for fitting reels with diameter up to 6 m.

	Reel diameter min – max (D) m	Reel max width (E) m	Dimensions of each reel-stand (A x B) m	Spindle diameter min – max (1) mm	Weight of a pair of reel-stands (2) kg
F155.B.300	2,50 – 4,60	2,80	3,50 x 0,90	100 – 140	1850
F155.B.500	3,20 – 4,80	3,60	3,50 x 0,90	120 – 160	2500

(1) to be specified when ordering - (2) weight of a pair of standard reel-stands, without optional devices

	Max load of a pair of reel-stands daN	Braking torque		Performances with hydraulic driven opt. 408 or 424				
		with 1 brake (standard) daN m	with 2 brakes (opt. 423) dan M	Max torque in braking		Max torque in recovering		Max speed (3) m/min
				opt.408 daN m	w/ opt.424 daN m	opt.408 daN m	opt.424 daN m	
F155.B.300	30.000	175	350	600	300	500	250	50
F155.B.500	50.000	200	400	1600	500	1400	400	15

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

F21



Worm-screw reel-stands. T-shaped base with wheels. The stands are supplied in pairs.

- Hand operated.
- Welded steel base.
- Head rollers to facilitate the cable unwinding.

OPTIONAL DEVICES

- 402.1 Spindle with cylindrical and conical bushes.
 402.2 Safety device to prevent the spindle to fall out from the rollers.
 405 Frame galvanisation.

	F21.2.40	F21.2.70
Reel diameter max/min	1,45 - 2,20 m	1,80 - 2,60 m
Max width of the reel	1,50 m	1,60 m
Max reel weight	4000 kg	7000 kg
Spindle diameter ⁽¹⁾	60 mm	80 mm
Base dimensions (length x width)	0,85x0,55 m	1,30x0,75 ⁽³⁾ m
Weight ⁽⁴⁾	55 kg	72 kg

⁽¹⁾ the spindle is not supplied as standard: opt. 402.1

⁽²⁾ the spindle Ø 100 is needed for reels width > 1800 mm

⁽³⁾ dimensions of the stand disassembly: 1,30 x 0,30 m

⁽⁴⁾ weight of each stand

F21.I



Stands fit for steel or wooden reels, used for lifting a reel while stringing the cable. Optionally, it is possible to fit a disk brake for braking the conductor. The stands are supplied in pairs.

- Each stand can be raised or lowered independently by a hydraulic hand pump.
- Mechanical safe-stops mounted on the jack arm.
- Lateral supports with ball bearings for reel-shaft.
- Max reel speed: 100 m/min.
- Welded and galvanised steel folding framework with attachments for anchoring.

OPTIONAL DEVICES

- 402.1 Spindle with cylindrical and conical bushes.
 410.1 Disc brake with manual regulation of the braking to keep under control the unwinding.
 405 Frame galvanisation.

	F21.I.30	F21.I.30.1
Max load	3000 daN	3000 daN
Braking torque with 1 brake opt. 410.1	100 daN m	100 daN m
Reel diameter min/max	0,60 - 1,60 m	0,60 - 2,10 m
Max width of the reel	1,20 m	1,40 m
Spindle diameter x length	40x1500 mm	50x1700 mm
Dimensions of each stand A x B x C	1,05x0,75x1,00 m	1,05x0,75x1,25 m
Weight ⁽¹⁾	90 kg	120kg

	F21.I.50	F21.I.100
Max load	5000 daN	10000 daN
Braking torque with 1 brake opt. 410.1	100 daN m	150 daN m
Reel diameter min/max	0,80 - 3,00 m	1,00 - 3,60 m
Max reel width of the	1,60 m	1,80 m
Spindle diameter x length	50-60x2000 mm	70-80x2200 mm
Dimensions of each stand A x B x C	1,40x0,90x1,70 m	1,60x1,00x2,00 m
Weight ⁽¹⁾	180 kg	240 kg

⁽¹⁾ without spindle and optional devices.

C141 reel-stands

C141 Reel-stand with hydraulic lifting system controlled by pedal.
The stands are supplied in pairs.

	Max load kg	Reel diameter mm	Base mm	Shaft Ø mm	Weight 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 mm	Length mm	Max load kg	Weight kg
C141.A60.15	60	1500	1800	18,0
C141.A75.15	75	1500	3000/5000	14,6
C141.A75.18	75	1800	3000/5000	18,5
C141.A75.20	75	2050	3000/5000	19,6
C141.A90.15	90	1500	10000	18,5
C141.A90.18	90	1800	10000	22,2
C141.A90.20	90	2050	10000	25,3



C141.B Galvanised steel collar.

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



C141.C Centering cone.

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



C136 Drum loading beam set. Complete with: drum axle, cones, steel ropes, support and ring.

	Max load	Reel hole Ø	Max reel diameter	Max reel width	Weight
	kg	mm	mm	mm	kg
C136.45	4500	60 - 140	2600	1500	105
C136.70	7000	90 - 170	3000	1500	150



C138 Hook for lifting the cable drums. Axial type.

	Max load	Reel hole Ø	Weight
	kg	mm	kg
C138.20	2000	60 - 140	8,5
C138.50	5000	90 - 170	12



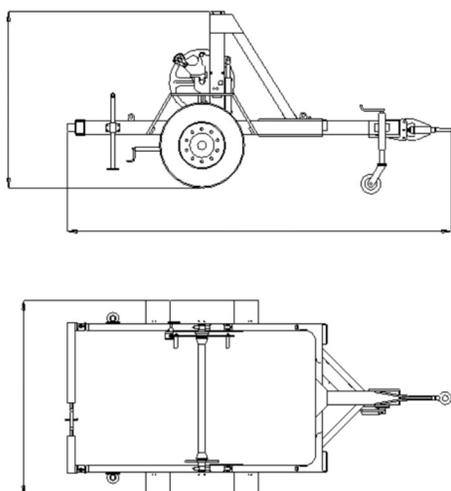
C139 Frame for unwinding the cable drums:

- C139.C** with aluminium rollers. Supplied in pairs
- C139.D** with galvanised steel rollers. Light type.
- C139.E** with galvanised steel rollers. Universal type.
- C139.F** and **C139.G** with galvanized steel rollers. Universal type.

	Max load	Reel Ø	Max reel width	Weight
	kg	mm	mm	kg
C139.C	1000	600 - 1200	-	18
C139.D	200	530 - 700	500	15
C139.E	1000	450 - 1000	500	17
C139.F	2500	1000 - 2000	-	30
C139.G	4000	1500 - 2500	-	38

**C139.C****C139.D****C139.E**

F10.50 trailers for reels



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

- Framework made of 3 steel sections.
- Spindle rotating on ball joints, with arm for close and drag the reel, and conical bushes 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.

TRAILER CHARACTERISTICS

Total weight with drum	5000 kg
Drum max diameter	2800 mm
Drum max width	1500 mm

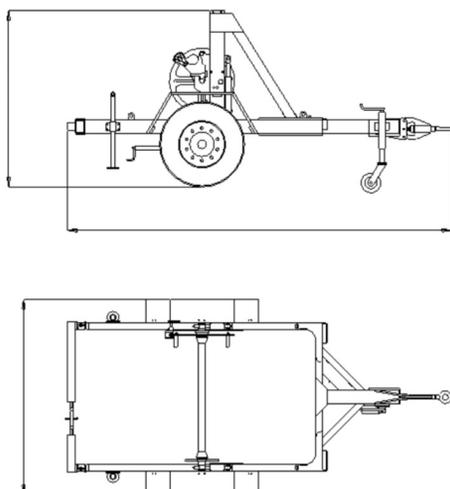
Performances with optional drive (opt.408.4 or 447)

Pulling force	0 - 9 kN
Pulling speed	0 - 60 m/min

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.
- 007-A Dumped single axle, towing speed 60 km/h. Complete with ABS system.
- 007-B Dumped 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.
- 038 Radio-control to control the rope winding/unwinding, max distance 50 m (opt.408.4 and 029.2 needed).
- 046.A Manual rope-winder to stratify the rope onto the reel.
- 401 Devices fit for using steel reels with the reel-elevator.
- 408.4 Hydraulic driven of the reel, with 2 rubber rollers and mechanical pushing device, for controlling the reel rotation both recovering and releasing cables, by control lever, complete with power unit and gasoline engine 13 hp. Hydraulic cylinders for lifting the reel, with the hydraulic power unit.
- 447 Hydraulic driven of the reel, with 2 rubber rollers and mechanical pushing device, for controlling the reel rotation both recovering and releasing cables, by control lever, complete with power unit and diesel engine 13 hp. Hydraulic cylinders for lifting the reel, with the hydraulic power unit.
- 410.1 Band brake on the spindle, for braking the unwinding of the cable.

F10.100 trailers for reels



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

- Framework made of 3 steel sections.
- Spindle rotating on ball joints, with arm for close and drag the reel and conical bushes for wooden reels.
- 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.

TRAILER CHARACTERISTICS

Total weight with drum	10000 kg
Drum max diameter	3000 mm
Drum max width	1600 mm

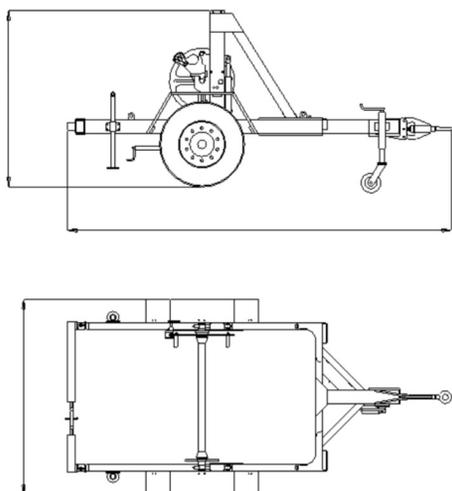
Performances with optional drive (opt. 408.4 or 447)

Pulling force	0 - 9 kN
Pulling speed	0 - 60 m/min

OPTIONAL DEVICES

- 006.1 12V lighting 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.
- 038 Radio-control to control the rope winding/unwinding, max distance 50 m (opt.408.4 and 029.2 needed).
- 046.A Manual rope-winder to stratify the rope onto the reel.
- 401 Devices fit for using steel reels with the reel-elevator.
- 408.4 Hydraulic drive of the reel, with 2 rubber rollers for controlling the reel rotation, complete with power unit and gasoline engine 13 hp.
Hydraulic cylinders for lifting the reel, with the hydraulic power unit.
- 447 Hydraulic drive of the reel, with 2 rubber rollers for controlling the reel rotation, complete with power unit and diesel engine 13 hp.
Hydraulic cylinders for lifting the reel, with the hydraulic power unit.
- 410.1 Band brake on the spindle, for braking the cable unwinding.

F10.120 trailers for reels



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

- Framework made of 3 steel sections.
- Spindle rotating on ball joints with arm for close and drag the reel, and conical bushes for wooden reels.
- 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.

TRAILER CHARACTERISTICS

Total weight with drum	12000 kg
Drum max diameter	3000 mm
Drum max width	1600 mm

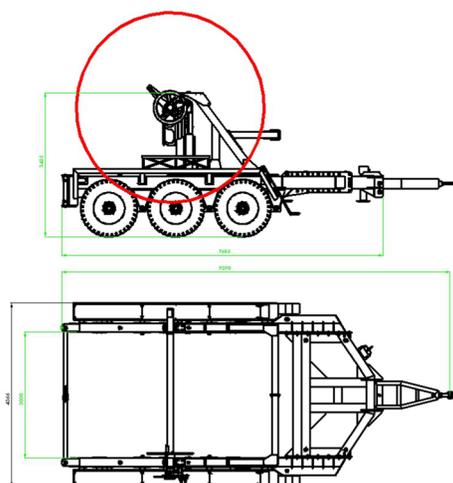
Performances with optional drive (opt. 408.4 or 447)

Pulling force	0 - 9 kN
Pulling speed	0 - 60 m/min

OPTIONAL DEVICES

- 006.1 12V lighting 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.
- 038 Radio-control to control the rope winding/unwinding, max distance 50 m (opt.408.4 and 029.2 needed).
- 046.A Manual rope-winder to stratify the rope onto the reel.
- 401 Devices fit for using steel reels with the reel-elevator.
- 408.4 Hydraulic drive of the reel, with 2 rubber rollers for controlling the reel rotation, complete with power unit and gasoline engine 13 hp.
Hydraulic cylinders for lifting the reel, with the hydraulic power unit.
- 447 Hydraulic drive of the reel, with 2 rubber rollers for controlling the reel rotation, complete with power unit and diesel engine 13 hp.
Hydraulic cylinders for lifting the reel, with the hydraulic power unit.
- 410.1 Band brake on the spindle, for braking the cable unwinding.

F10.500 trailers for reels



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

- 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 150 daNm).

OPTIONAL DEVICES

- 006 Lights and braking system of the trailer.
- 008 Suspensions on semi-axles, 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 driven with for controlling the reel rotation both recovering and releasing cables, complete with power unit and diesel 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 Trail-stocks system for supporting the drum (instead of the shaft system).
- 462 Swivel and adjustable towing bar to facilitate the trailer handling in limited spaces.
- 463 Steerable towing assembly complete with axle, wheels and towing arm on fifth wheel.

DIMENSIONS and WEIGHT OF THE REEL

Diameter max	5,00 m
Width max	2,70 m
Weight max	50000 kg
Total weight of the trailer with reel: 59000kg	

Performances with optional drive (opt. 408.4)

Max braking torque	750 daN
Max recovering torque	500 daN

DIMENSIONS and WEIGHT OF THE TRAILER

L x W x H	8,80x4,20x3,00 m
Weight	9000 kg