

# CINGO multi-purpose transporters





# **CINGO** multi-purpose transporters

Cingo multi-purpose transporters are compact and highly manageable machines, designed to work in tight spaces. Their low centre of gravity guarantees maximum transversal stability on slopes, while their tracks allow for lower ground pressure and a better grip on deformed and irregular terrain. The versatility and multi-purpose qualities of the Cingo system are unique: the patented quick-coupling device allows for the use of countless different attachments.

The wide range available includes models with capacities of 400 kg to 1.200 kg, and consists of three types of machines:

- ▼ TRANSPORTERS: mini operating machines for the transport and loading of materials
- MULTIFUNCTION MACHINES: mini operating machines equipped with Merlo's patented quickcoupling device, capable of being paired with countless attachments











### Winning innovations

Cingo model machines are tireless and versatile, and are specifically designed for the maintenance of green areas (grass mowing, twig shredding and pruning), road and forest cleaning, winter road maintenance, agricultural and livestock activities, and construction work (excavation, transport, concrete mixing, etc.).

Safe and reliable for countless applications, the Cingo models are manageable and easy to drive thanks to their hydraulic controls and hydraulic or hydrostatic transmissions.

And they're even capable of operating in confined spaces: in fact, all the various models have a compact width, and can turn in place thanks to the counter-rotation of the tracks.

All the "EVO" series machines, driven by hydrostatic transmissions, are now equipped with hydraulic servo-assisted transmission controls. A 70% reduction of the force needed to operate the levers greatly improves the driving comfort. Driving precision is also enhanced. There are also major advantages for maintenance, as this system no longer requires periodical adjustments.

# **CINGO** transporter models

# Indispensable for material transport and handling operations

#### **CINGO M500 MINI SERIES**

This minidumper, available in three versions (dumper, dumper with self-loading bucket, small agricultural dumper) is a handy, compact and safe transporter, which offers superior class features, such as orbital hydraulic motors for maximum traction and *overcenter* valve, which allows you to control the uphill/downhill speed with the machine loaded.

Among the easy and intuitive controls are the parking brake with manual control, and an optional digital hour metre and tachometer display.



	CINGO M500 TECHNICAL DATA						
PERFORMANCE		TRANSMISSION AND HYDRAULIC SYSTEM		WEIGHT AND DIMENSIONS			
Maximum capacity	500 kg	Transmission type	Hydraulic	Weight	210/230 kg		
Petrol engine	Honda 5,5 HP	Hydraulic transmission pumps	Orbital	Width	690 mm		
Ignition	Manual pull start	Service pump	-	Length	1.470 mm		
Maximum speed	3,5 km/h						



#### **CINGO M700TD**

This compact transporter is equipped with hydraulic transmission with gear pumps and hydraulic gear motors with the possibility of moving at double speed.

Excellent performance and maximum safety are also guaranteed by the *overcenter* valve for controlling speed on slopes.

Replacing the attachments available for this transporter model is facilitated by the possibility of placing the attachment on the ground with four support feet.



	CINGO M700TD TD TECHNICAL DATA					
PERFORMANCE		TRANSMISSION AND HYDRAULIC SYSTEM		WEIGHT AND DIMENSIONS		
Maximum capacity	700 kg	Transmission type	Hydraulic	Weight	480 kg	
Petrol engine	Honda 12 HP	Hydraulic transmission pumps	Gear motors	Width	750 mm	
Ignition	Electrical	Service pump	Gears 6 cc	Length	1.640 mm	
Two speeds	2,5 - 4 km/h					

#### **CINGO M8.3TD-EVO**

The hydrostatic system, with hydraulic servoassisted controls, also allows you to manage the speed from a few metres per hour up to a maximum of 4 km/h. It also allows you to control the steering with ease and micrometric precision for work accuracy and driving safety.



CINGO M8.3TD-EVO TECHNICAL DATA					
PERFORMA	NCE	TRANSMISSION AND HYD	PRAULIC SYSTEM	WEIGHT AND DIMENSIONS	
Maximum capacity	800 kg	Transmission type	Hydrostatic	Weight	510 kg
Diesel Engine	Kubota 17 HP	Hydraulic transmission pumps	Gear motors	Width	800 mm
Ignition	Electrical	Service pump	Gears 8 cc + 2,5 cc	Length (with dumper body)	1.800 mm
Maximum speed	4 km/h				

### **CINGO** multifunction models

# Multifunction system, versatility for every sector

The versatility and multi-purpose qualities of the Cingo system are unique. The quick attachment coupling device equips the sturdy tracked truck with two strong steel booms. This hydraulically controlled coupling system is patented and allows the rapid and simple replacement of innumerable attachments.

#### **CINGO M8.3EVO**

Thanks to its compact size, the Cingo M8.3EVO is a multifunction machine ideal for working in particularly confined spaces. The 17 HP diesel engine and the tracks' high angle of contact allow the machine to overcome obstacles, guaranteeing maximum versatility and functionality in all work situations. As with all Cingo models equipped with hydrostatic transmission with gear motors, the integrated parking brake allows for excellent dynamic braking, guaranteeing a lower stopping distance, and therefore greater safety. The hydraulic servo-assisted controls also allow the speed to be regulated from a few metres per hour up to a maximum of 4 km/h, and the steering to be controlled with ease and micrometric precision.

CINGO M8.3EVO TECHNICAL DATA					
PERFORMAI	NCE	TRANSMISSION AND HYDI	RAULIC SYSTEM	WEIGHT AND DIM	ENSIONS
Maximum capacity	800 kg	Transmission type	Hydrostatic	Weight	510 kg
Diesel Engine	Kubota 17 HP	Hydraulic transmission pumps	Gear motors	Width	800 mm
Ignition	Electrical	Service pump	Gears 8 cc + 2,5 cc	Length	1.600 mm
Maximum speed	4 km/h	Maximum system flow rate (auxiliary circuit)	27 l/min		









#### **CINGO M12.3EVO**

The Cingo M12.3 EVO, equipped with gear motors and integrated parking brake, is the largest and most versatile multifunction machine.

It is equipped with a powerful 21 HP diesel engine and suitable tracks that allow it to operate in any terrain condition, thanks to excellent ground contact.

Ideal in hilly and mountain areas where the compact size, low centre of gravity and remarkable traction allow you to work effectively and safely.

The hydrostatic system, with hydraulic servo-assisted controls, also allows you to manage the speed from a few metres per hour up to a maximum of 5 km/h. It also allows you to control the steering with ease and micrometric precision for work accuracy and driving safety.





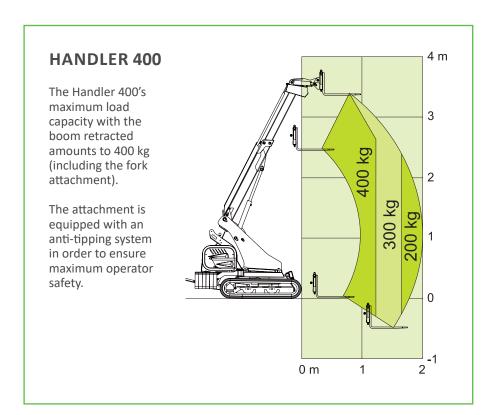
	CINGO M12.3EVO TECHNICAL DATA						
PERFORMA	NCE	TRANSMISSION AND HYDRAULIC SYSTEM		TRANSMISSION AND HYDRAULIC SYSTEM WEIGHT AN		WEIGHT AND DIM	ENSIONS
Maximum capacity	1.200 kg	Transmission type	Hydrostatic	Weight	720 kg		
Diesel Engine	Kubota 21 HP	Hydraulic transmission pumps	Gear motors	Width	1.000 mm		
Ignition	Electrical	Service pump	Gears 8 + 2,5 cc	Length	1.800 mm		
Maximum speed	5 km/h	Maximum system flow rate (auxiliary circuit)	27 + 8 l/min				

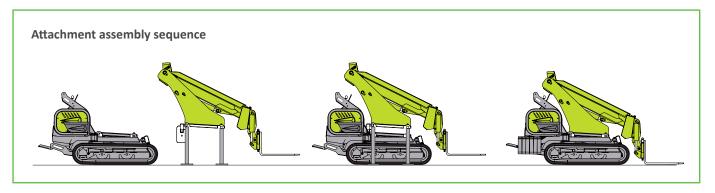
### **CINGO M12.3 EVO HANDLER 400**

#### **HANDLER 400**

The Exclusive Handler creates a genuine compact telescopic handler, mounted on the Cingo M12.3EVO Model. It takes few seconds to connect the desired attachment to the head in order to respond quickly and effectively to the increasingly new demands for lifting, excavating, transporting, loading, unloading and precise handling, The handler 400 is supplied with forks as standard, however, when required the telescopic boom can also be fitted with a wide variety of other attachments (loaders, forks with grab, log gripper, hedge cutters, etc.) for lifting, digging, transporting and cutting.

HANDLER 400 TECHNICAL DATA				
Maximum load capacity (kg)	400			
Handler attachment weight (kg)	680 (without the machine)			
Lift height (m)	3,4			
Kubota Diesel Engine (HP)	21			
Maximum speed (km/h)	4,9			
Transmission	Hydrostatic			
Boom controls	Electromechanical joystick			
Front hydraulic stabiliser	Standard			
Double pump and auxiliary service line	Standard			









AND BUILT-IN PARKING BRAKE

#### LIST OF ATTACHMENTS

CINGO TRANSPORTER MODELS	M500*	M700TD	M8.3TD EVO
Dumper body	X	X	Х
Dumper body with self-loading bucket	X	X	X
Dumper body with openable sideboards	X	X	X
300-litre concrete mixer		X	X
300-litre concrete mixer with self-loading bucket		X	X
Front blade		X	X
High-capacity dumper body with front sideboard		X	X
High-capacity Dumper body with front sideboard and self-loading bucket		X	X
Dumper body with high unloading and self-loading bucket		X	X
200-litre sprayer with dedicated petrol engine		X	X
Manual 20 kg hydraulic hammer		X	X

<sup>\*</sup> the attachments are not interchangeable for the M500 mini series

CINGO MULTIFUNCTION MODELS	M8.3EVO	M12.3EVO
Attachments for the construction and earth-moving sectors		
Dumper body	X	Х
Dumper body with self-loading bucket	X	Х
Dumper body with high unloading	Х	Х
300-litre concrete mixer	X	Х
300-litre concrete mixer with self-loading bucket	X	Х
Manual hydraulic hammer - 20 kg	X	Х
Dumper body with openable sideboards and trilateral tipping	Х	Х
Attachments for agriculture, forestry and green areas		
Dumper body with openable sideboards and agricultural flat bed	X	X
Shredder for shrubs, grass and stalks	X	X
Soil tiller	X	X
Sprayer	Х	Х
Auger	Х	Х
Lift carrier with forks	X	Х
Pallet transporter	X	Х
Lift carrier with forks and crate presses for hive boxes	Х	Х
Winch		Х
Chipper	Х	Х
Snow blower	X	Х
Front blade with hydraulic positioning	X	X
Snow plough	X	X
Handler 400 ATTACHMENTS and accessories		
HANDLER 400 - telescopic boom complete with forks		X
Bucket for Handler 400		X
4x1 bucket for Handler 400		X
Fork with grab for Handler 400		X

## Multifunction system attachments

With the multiple attachments available, the Cingo becomes a highly efficient and productive machine that's capable of significantly reducing costs for numerous different activities where specific machines are normally utilised.

The excellent features and performance of Cingo attachments and their total compatibility are derived from an integrated design and an exclusive production process.

#### Patented device

What makes the Cingo system so versatile and unique is the complete interchangeability of the countless attachments.



The patented device for rapid attachment connection, which equips the truck with two strong mechanical arms, is the technological base of the Cingo Multifunction. Most of the Multifunction system's attachments are compatible with this device.

# HYDRAULICALLY CONTROLLED QUICK-COUPLING DEVICE





#### **Dumper**

Ideal for transporting bulk materials and for precision unloading. Compatible with the quick-coupling system.

	M 8.3EVO	M 12.3EVO
Dumper capacity (I)	400	550
Load capacity (kg)	730	1.100
Width (mm)	800	920



#### **Dumper with self-loading bucket**

The advantage of having the front bucket with hydraulic lifting for loading the material.

Compatible with the quick-coupling system.

	M 8.3EVO	M 12.3EVO
Dumper capacity (I)	400	550
Load capacity (kg)	655	980
Bucket capacity (I)	80	90
Width (mm)	970	1.080



#### **Dumper body with high unloading**

The ability to efficiently transport aggregates, combined with the versatility of unloading at heights.

Compatible with the quick-coupling system.

	M 8.3EVO	M 12.3EVO
Dumper capacity (I)	400	400
Load capacity (kg)	610	1.010
Width (mm)	850	850
Height of the obstacle (mm)	1.300	1.300



#### 3-way tipper body

The versatility of a tipper body with movable tipping sideboards on three sides.

	M 8.3EVO	M 12.3EVO
Load capacity (kg)	710	1.100
Width (mm)	750	920
Length (mm)	1.050	1.250
Height of the sideboards (mm)	450	450



#### **Tipping body with sideboards**

The versatility of a tipper body with movable sideboards, which can become an integral part of the loading surface if necessary, thus increasing its surface area.

	M 8.3EVO	M 12.3EVO
Load capacity (kg)	720	1.100
Width with sideboards closed (mm)	800	1.000
Width with horizontal sideboards (mm)	1.445	1.650
Height of the sideboards (mm)	300	300



#### Flail mower

Ideal for shredding pruning clippings, stalks, small shrubs and for cleaning embankments and paths.

Compatible with the quick-coupling system.

	M 8.3EVO	M 12.3EVO
Working width (mm)	800	1.000



#### Post hole auger

For drilling precision holes in the ground for poles, supports, or small trees. Compatible with the quick-coupling system.

	M 8.3EVO	M 12.3EVO
Hole diameter (mm)	200	200
Maximum working depth (mm)	800	800



#### **Chipper**

Indispensable for shredding pruning clippings and other wooden materials, with the advantage of total mobility. Compatible with the quick-coupling system.

	M 8.3EVO	M 12.3EVO
Maximum branch diameter (mm)	110	110



#### Fingerbar mower

An advanced hydraulically-operated system for precision mowing. The bar's floating function allows the mowing to be carried out following the contours of the ground. Compatible with the quick-coupling system.

	M 8.3EVO	M 12.3EVO
Cutterbar width (mm)	1.300	1.300



#### Rotavator

This attachment allows the seedbed to be prepared under any slope conditions in gardens, vegetable gardens, greenhouses, vineyards, orchards, and medium-sized parcels of land.

Compatible with the quick-coupling system.

	M 8.3EVO	M 12.3EVO
Working width (mm)	800	1.000



#### **Sprayer**

A quick and easy-to-handle sprayer that's ideal for applying plant protection treatments between windrows on difficult terrain and with limited space.

	M 8.3EVO	M 12.3EVO
Tank capacity (I)	200	200



#### Winch with loading platform

The advantage of pairing a powerful hydraulic pulling system with a versatile means of transport. Ideal for use in the forestry sector.

	M 12.3EVO
Maximum load capacity (kg)	1.000
Maximum pull force (kg)	1.500
Cable length (m)	50



#### Manual hydraulic hammer

For carrying out small or large demolition operations with maximum precision and effectiveness.

	M 8.3EVO	M 12.3EVO
Tool mass (kg)	20	20



#### **Concrete mixer**

Designed for mixing concrete in the required quantities, whenever and wherever needed. Compatible with the quick-coupling system.

	M 8.3EVO	M 12.3EVO
Concrete mixer capacity (I)	350	350
Concrete yield (I)	300	300
Attachment width (mm)	1.050	1.050



#### Concrete mixer with self-loading bucket

Helps increase productivity by directly loading the aggregates. Compatible with the quick-coupling system.

	M 8.3EVO	M 12.3EVO
Concrete mixer capacity (I)	350	350
Concrete yield (I)	300	300
Bucket capacity (I)	40	40
Attachment width (mm)	1.050	1.050



#### **Masted lift**

Ideal for precision handling operations when high lifting capacities are required. Compatible with the quick-coupling system.

	M 8.3EVO	M 12.3EVO
Maximum load capacity (kg)	200	400
Lift height (mm)	1.600	1.800



#### **Telehandler**

An agile work tool that can be equipped with various types of attachments (shovels, forks, grapples, buckets, etc.) for excavating, lifting, loading, transporting, and handling operations. Compatible with the quick-coupling system.

	M 12.3EVO
Maximum load capacity (kg)	400
Lift height (mm)	3.400



#### **Snow blower**

This hydraulically-operated unit features a turbine ejector with a manually selectable continuous spray direction. Compatible with the quick-coupling system.

	M 8.3EVO	M 12.3EVO
Working width (mm)	800	1.000



#### **Snow plough**

Hydraulic orientation, suitable for snow removal. It is equipped with an anti-shock system with spring return, which allows for easy use while avoiding problems on uneven ground. Wear-resistant steel scraper.

	M 8.3EVO	M 12.3EVO
Blade width (mm)	1.300	1.300
Blade height (mm)	470	470
Blade angle (degrees)	±30	±30



#### **Front blade**

Easy to operate and ideal for cleaning stalls, piling loose materials, and levelling areas of ground.

	M 8.3EVO	M 12.3EVO
Blade width (mm)	1.100	1.300
Blade height (mm)	470	470
Blade angle (degrees)	±18	±18





	MODELS		M500	M700 TD
	SUBGROUP		TRANSPORTER	TRANSPORTER
PERFORMANCE - DIMENSIONS	Maximum capacity Machine weight Maximum length Maximum width Maximum height Fixed / variable track width Distance off the ground/Ground clearance Max. longitudinal slope Max. cross slope Maximum speed	kg kg mm mm mm	500 210/230 1.471 690 1.125 FIXED 115 35% 20% 3,5	700 480 1.640 750 1.230 FIXED 100 35% 20% 4
ENGINE	Engine Model Fuel Cylinder no. Displacement Max. engine speed Power Max. torque Ignition Engine cooling Fuel tank Fuel consumption Battery	Make Number  cc rpm kW  I I/h 3.600 rpm V/Ah	Honda GX 200 Petrol 1 196 3.850±100 4,1 kW / 3.600 rpm 12,4 Nm / 1,26 Kgfm / 2.500 rpm Manual pull start Air 3,1 1,7	Honda GX 390 Petrol 1 389 3.600 8,7 kW 26,5 Nm Manual pull start/Electric Air 6,1 3,5 12 V
TRANSMISSION	Transmission type Pump Flow Hydraulic motor Maximum operating pressure Controls / Levers Operator's console Parking brakes	cc I/min bar	Hydraulic 3,2 + 3,2 11,5+11,5 Orbital 150 Hydraulic On the ground Manual	Hydraulic 4,27+4,27 14+14 Gear motor 160 Hydraulic On the ground / Platform Automatic Fast second gear
TRACKS	Type Dimensions Rollers per side		Rubber 160x72x33 3	Rubber 180x72x36 4
HYDRAULIC CIRCUIT	Service pump  Auxiliary circuit oil flow rate  Maximum pressure  Service and transmission oil tank  Auxiliary circuit oil cooling  Service lines  Levers	cc I/min bar litres	- - 21 no 2 -	Gears 6 20 180 18 yes 4
	Auxiliary services control valve		110	

NAO STO EVO	MO 2 5VO	M42.2.5VO
M8.3TD EVO	M8.3 EVO	M12.3 EVO
TRANSPORTER	MULTIFUNCTION	MULTIFUNCTION
800	800	1.200
510	510	720
1.800	1.620	1.800
800	800	1.000
1.175	1.175	1.144
FIXED	FIXED	FIXED
120	100	110
35%	35%	35%
20%	20%	20%
4	4	5
Kubota	Kubota	Kubota
Z-602	Z-602	D722
Diesel	Diesel	Diesel
2	2	3
600	600	720
3.600	3.600	3.600
12,5 kW / 3.600 rpm	12,5 kW / 3.600 rpm	14,9 kW / 3.600 rpm
38 Nm / 3.600 rpm	38 Nm / 3.600 rpm	46 Nm / 2.600 rpm
Electrical	Electrical	Electrical
Liquid-type	Liquid-type	Liquid-type
14	14	14
2,8	3,5	4
12 V	12 V	12 V
Hydrostatic	Hydrostatic	Hydrostatic
11+11	11+11	13+13
38+38	38+38	45+45
Gear motor	Gear motor	Gear motor
160	160	200
Hydraulic	Hydraulic	Hydraulic
On the ground / Platform	On the ground / Platform	On the ground / Platform
Automatic / Manual Selector	Automatic / Manual Selector	Automatic / Manual Selector
,	,	
Rubber	Rubber	Rubber
180x72x36	180x72x36	230x72x40
4	4	4
Gears 8 + 2,5	Gears 8 + 2,5	Gears 8 + 2,5
27 + 8	27 + 8	27 + 8
180	180	200
18	18	26
yes	yes	yes
yes 8	yes 8	yes 8
-	-	-
SD5/3 levers	SD5/4 levers + SD5/1 lever	SD5/4 levers + SD5/1 lever
no	yes	yes



# CINGO multi-purpose transporters

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Merlo Spa pursues a policy of continuous research and development, therefore, our products may have different characteristics from those described or may undergo changes without any prior notice. The products shown may include optional equipment.



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