



Technical specification

# Cold Milling Machine W 50 DC/W 50 DCi

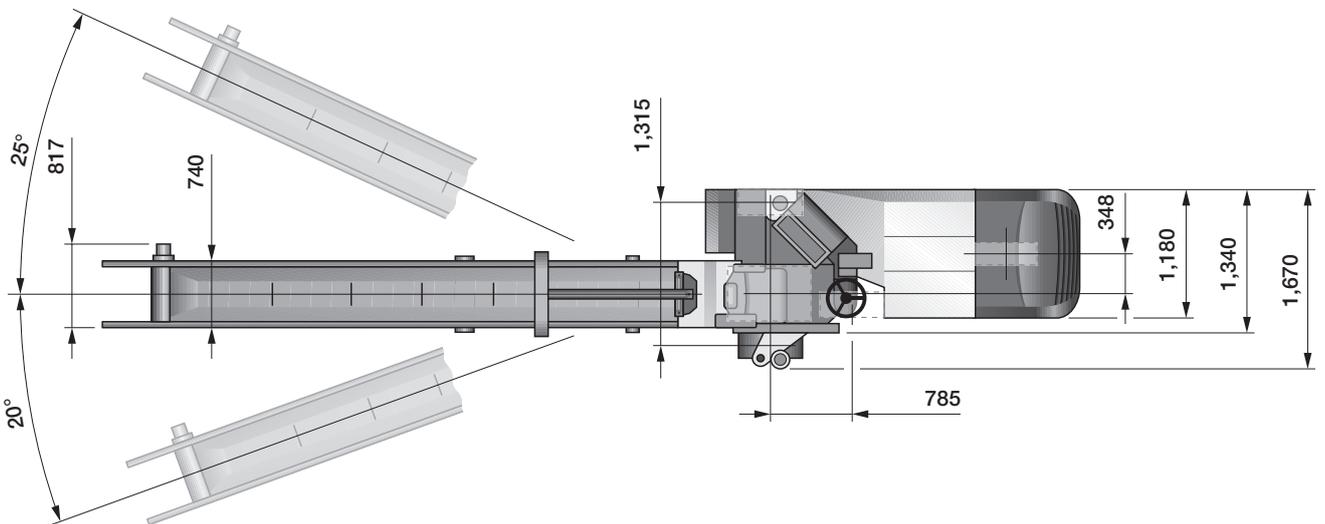
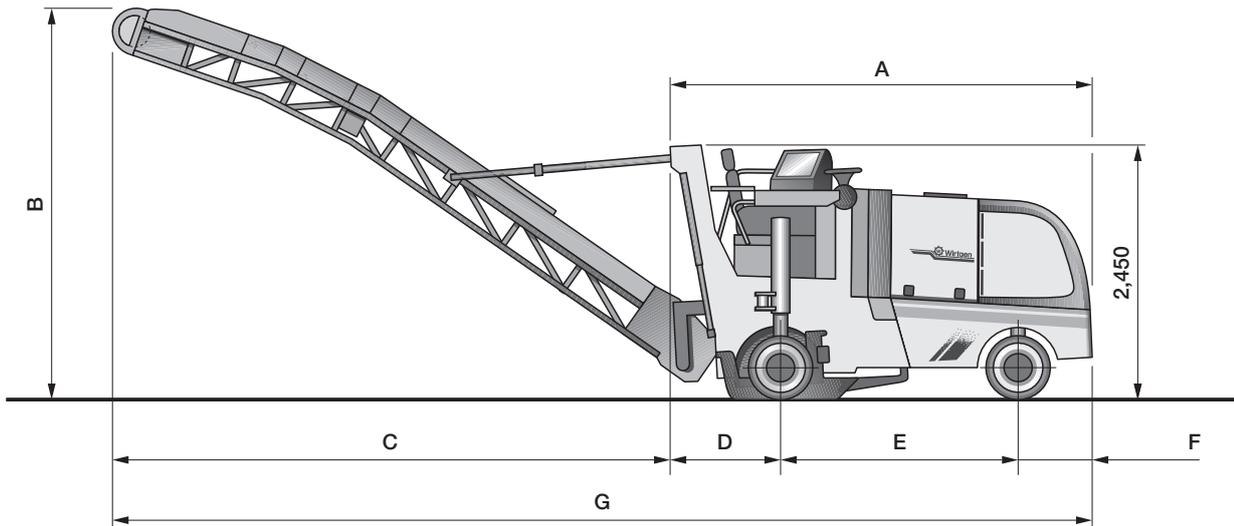


# Technical specification

Cold milling machine W 50 DC and W 50 DCi		
<b>Milling drum</b>		
Milling width max.	500 mm	
Milling depth *1	0–210 mm	
Tool spacing	15 mm	
Number of tools	58	
Drum diameter with tools	750 mm	
<b>Engine</b>	<b>W 50 DC</b>	<b>W 50 DCi</b>
Manufacturer	Deutz	Deutz
Type	TCD2012 L04 2V AG3	TCD 4.1 L4
Cooling	Water	Water
Number of cylinders	4	4
Rated power at 2,100 min <sup>-1</sup>	92 kW / 123 HP / 125 PS	95 kW / 127 HP / 129 PS
Displacement	4,038 cm <sup>3</sup>	4,040 cm <sup>3</sup>
Theoretical maximum fuel consumption	23.7 l/h	24.8 l/h
Actual fuel consumption in field mix	9.5 l/h	11.1 l/h
Emission standards	EC Stage 3a/US Tier 3	EC Stage 3b/US Tier 4i
Electrical system	24 V	
<b>Tank capacities</b>		
Fuel tank	230 l	
Hydraulic fluid tank	80 l	
Water tank	600 l	
<b>Driving properties</b>		
Travel speed in milling gear, max.	0–27 m/min (1.62 km/h)	
Travel speed in travel gear, max.	0–88.3 m/min (5.3 km/h)	
<b>Tyres</b>		
Type	Solid rubber	
Tyre size front, 3-wheeled model (dia. x W)	559 x 254 mm	
Tyre size front, 4-wheeled model (dia. x W)	559 x 203 mm	
Tyre size rear (dia. x W)	559 x 254 mm	
<b>Conveyor system</b>		
Belt width of conveyor	400 mm	
Theoretical capacity of discharge conveyor	82 m <sup>3</sup> /h	
<b>Shipping dimensions</b>	<b>W 50 DC</b>	<b>W 50 DCi</b>
Machine (L x W x H)	3,730 x 1,670 x 2,450 mm	3,900 x 1,670 x 2,450 mm
Conveyor (L x W x H)	6,100 x 817 x 1,200 mm	6,100 x 817 x 1,200 mm

\*1 = the maximum milling depth may deviate from the value indicated, due to tolerances and wear

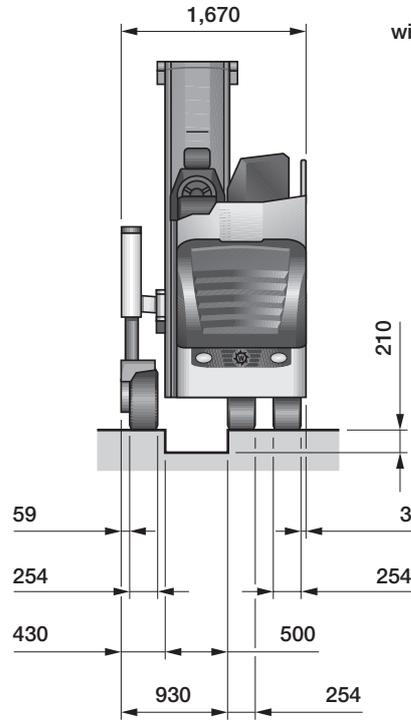
Dimensions in mm



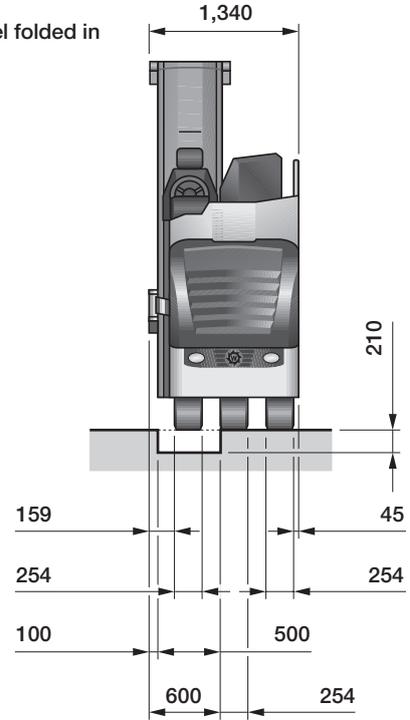
	A	B	C	D	E	F	G
<b>W 50 DC</b>	3,730	4,350	4,980	870	2,150	710	8,720
<b>W 50 DCi</b>	3,900	3,600	4,900	950	2,230	720	8,800

**Front view, 3-wheeled model**  
Dimensions in mm

with support wheel folded out

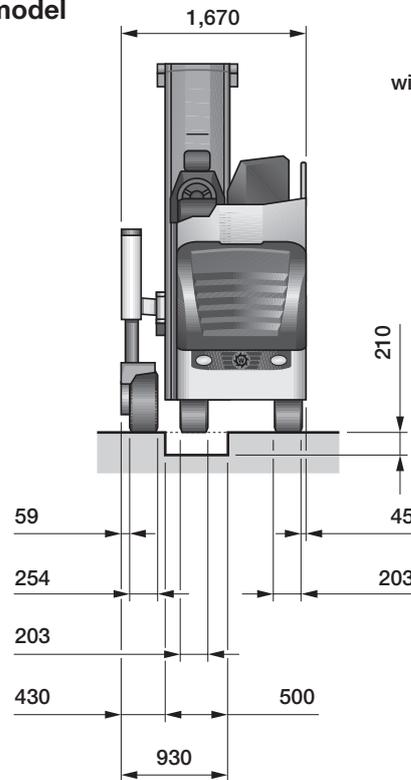


with support wheel folded in

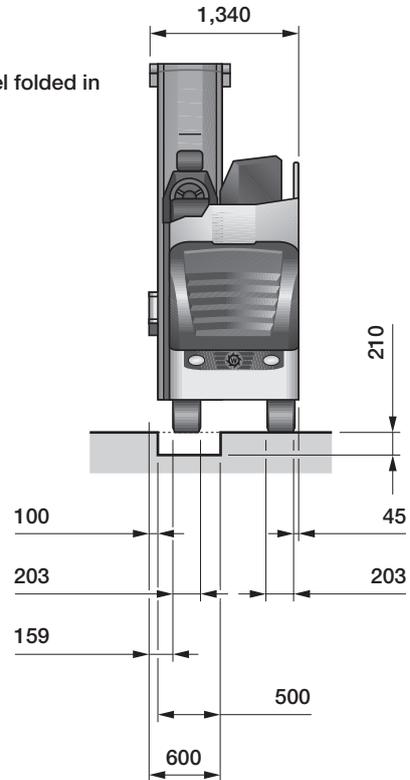


**Front view, 4-wheeled model**  
Dimensions in mm

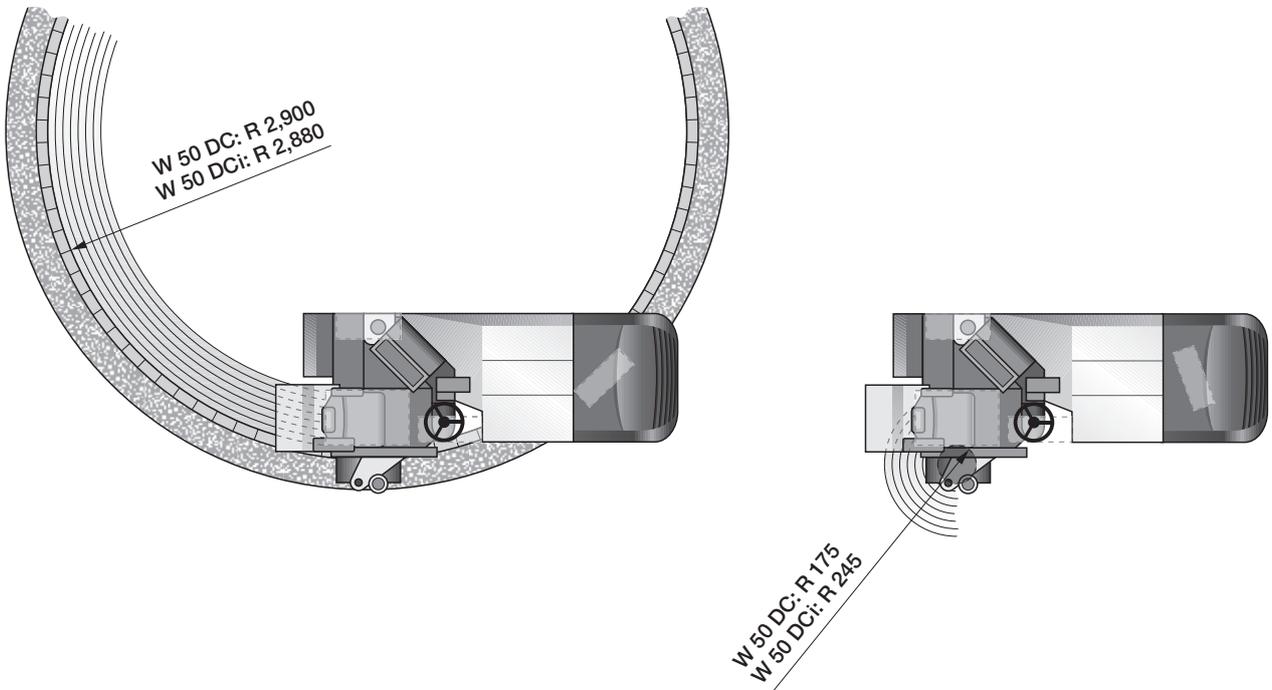
with support wheel folded out



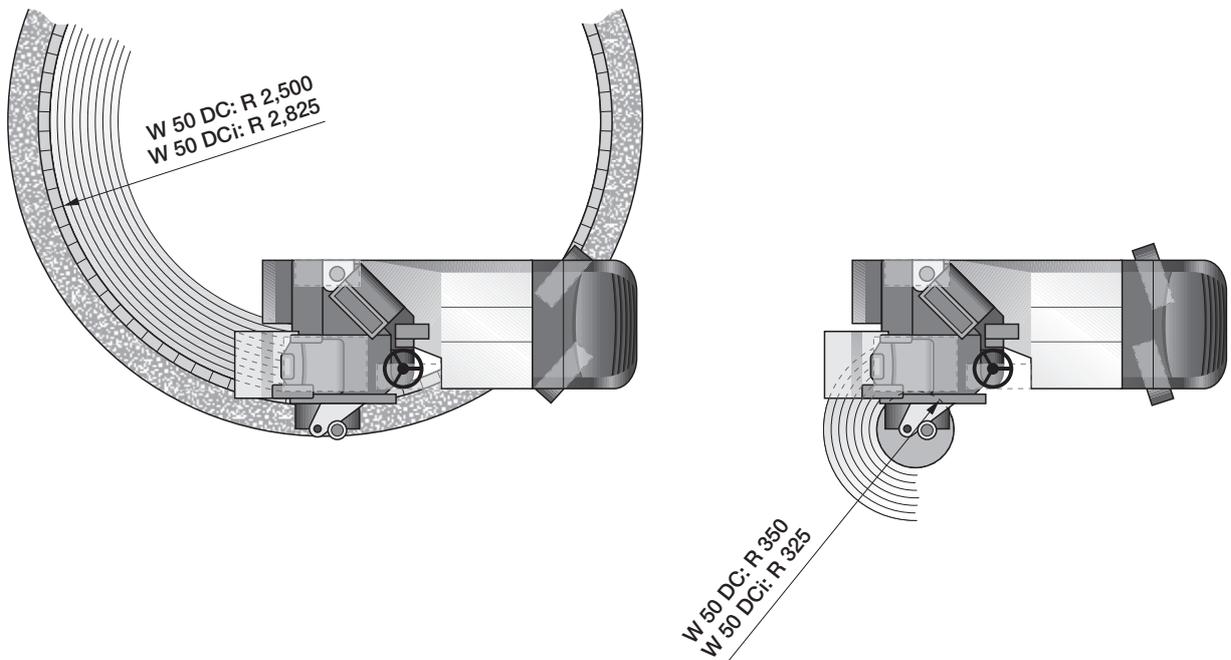
with support wheel folded in



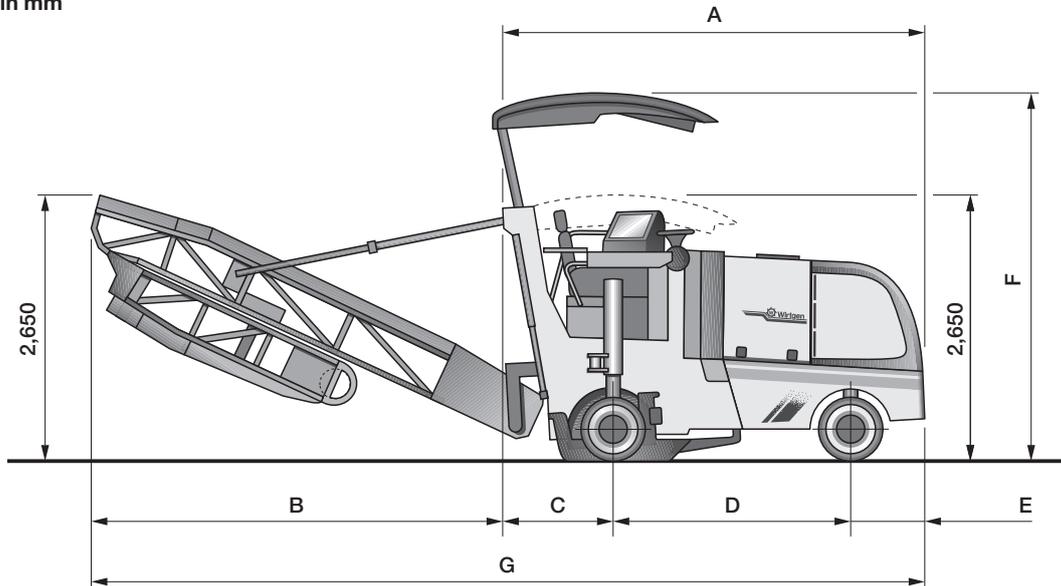
**Milling radius, 3-wheeled model, 50 mm milling depth**  
Dimensions in mm



**Milling radius, 4-wheeled model, 50 mm milling depth**  
Dimensions in mm



**Machine transport with optional folding conveyor and canopy roof**  
**Dimensions in mm**



	A	B	C	D	E	F	G
W 50 DC	3,730	3,650	870	2,150	710	3,350	7,380
W 50 DCi	3,900	3,170	950	2,230	720	3,360	7,070

	Machine weights W 50 DC	Machine weights W 50 DCi
Empty weight of machine	6,650 kg	7,150 kg
Operating weight, CE*, 3-wheeled model without conveyor	7,150 kg	7,650 kg
Operating weight, max. (full tanks, full range of equipment)	8,875 kg	9,375 kg
Weights of filling media		
Water tank filling in kg	600 kg	
Diesel tank filling in kg (0.83 kg/l)	190 kg	
Optional equipment features increasing / reducing empty weight		
Driver and tools		
Driver	75 kg	
Weight of 5 cutting tool containers	125 kg	
On-board tools	30 kg	
Optional additional equipment		
Conveyor with standard scraper blade	650 kg	
Long folding conveyor with standard scraper blade	700 kg	
Short conveyor with standard scraper blade	450 kg	
FCS scraper blade	180 kg	
Four-wheel design in lieu of three-wheel design	250 kg	
Canopy	150 kg	

\* = weight of machine with half-full water tank, half-full fuel tank, driver (75 kg) and on-board tools

## Equipment features of cold milling machine W 50 DC and W 50 DCi

### Standard equipment:

#### Basic machine with engine

- Water-cooled engine
- Elastically mounted engine station to reduce vibrations and noise
- Situation-dependent automatic engine speed control
- Mechanically opening, soundproof engine cowling
- Water cooler with temperature-related fan speed
- Highly effective soundproofing of entire engine compartment
- Standard painting in Wirtgen white with orange stripes

#### Milling drum housing

- Wear-resistant milling drum housing for milling width 500 mm, including mount for loading conveyor
- Hydraulically lifting side plates
- Right-hand side plate in hinged design
- Water spray bar in milling drum assembly

#### Milling drums

- Milling drum, milling width 500 mm, tool spacing 15 mm, HT11 quick-change toolholder system
- Mechanical milling drum drive via multiple V-belts with automatic belt tensioner

#### Loading of milled material

- Milling drum assembly sealing flaps in lieu of discharge conveyor system

#### Machine and levelling control

- Mechanical milling depth display via dials left and right
- Engageable water injection in milling chamber
- Engageable hydraulic traction control
- Automatically engaging maximum milling speed control

#### Operator's platform

- Comfortable access to the operator's platform at the rear left of the machine
- Fully anti-vibration mounted operator's platform
- Individually adjustable driver's seat on the right side of the machine
- Adjustable steering wheel
- Convenient control panel with practical switches
- Right-hand armrest including major operating functions
- Digital multi-functional display for all important operation parameters
- Lockable control panel cover
- Exterior rear view mirrors left and right
- Reversing horn with clearly audible sound
- Illuminated control panel/night design

#### Chassis and height adjustment

- Design with 3 wheel units for swift and easy manoeuvring on site
- Continuously adjustable, hydraulic all-wheel drive with three speed ranges
- Differential lock selectable in both forward and reverse gear
- Hydraulic height adjustment with two speed settings at the rear wheel units
- Smooth, hydraulic front-wheel steering
- The rear right support wheel can be swivelled in front of the milling drum mechanically to allow flush-to-kerb milling
- Hydraulically disengaging spring-loaded multiple-disk brake

#### Miscellaneous

- Lighting package consisting of 5 halogen spotlights and one rotating beacon
- Comprehensive toolkit in lockable toolbox
- Towing device
- Safety package with emergency stop button
- Additional storage compartment for cutting tool containers
- Standard warranty of 12 months or 1,000 engine operating hours
- Machine commissioning by qualified personnel

### Optional equipment:

#### Basic machine with engine

- Special painting in one, two or several colours

#### Milling drum housing

- Wear-resistant milling drum housing for milling width 600 mm, FCS Light, including pre-installation for quick and easy drum change, excluding milling drum
- Milling drum assembly sealing, front, with hydraulic lifting function
- Hydraulically opening scraper blade with mechanical locking mechanism

#### Milling drums

- Milling drum unit, 400 mm milling width, HT01, with scraper blade
- Milling drum unit, 300 mm milling width, HT01, with scraper blade
- Milling ring, 80 mm milling width, 300 mm milling depth
- Fine milling drum, 500 mm milling width, HT01, 6 mm tool spacing
- Mounting carriage for milling drums
- Hydraulically operated tool extractor, complete with toolholder and associated electrical and hydraulic connections

#### Loading of milled material

- Heavy-duty discharge conveyor, 5,600 mm long, with 400 mm wide belt system
- Heavy-duty, long folding discharge conveyor with 400 mm wide belt system
- Heavy-duty, 1,100 mm short discharge conveyor with 400 mm wide belt system
- Hydraulically adjustable scraper system
- Discharge conveyor system with adjustable conveying speed
- Discharge conveyor slewing angle 25 degrees left, 20 degrees right
- Hydraulic quick-release couplings at the loading conveyor

#### Machine and levelling control

- LEVEL PRO automatic levelling system with 2 wire-rope sensors
- Integration of electronic Rapid Slope cross slope sensor into levelling system
- WIFMS – Wirtgen Fleet Management System standard interface

#### Operator's platform

- Canopy, electro-hydraulically adjustable in height and mechanically adjustable to either side

#### Chassis and height adjustment

- Design with 4 wheel units for swift and easy manoeuvring on site
- Hydraulically folding wheel unit at the rear right

#### Miscellaneous

- Lighting package consisting of 3 Xenon spotlights, 2 halogen spotlights and one rotating beacon
- Lighting package consisting of 6 halogen spotlights, two rotating beacons plus additional direction indicators, rear lights and side lights in accordance with StVZO (German road traffic licensing regulations)
- Lighting package consisting of 5 halogen spotlights, two rotating beacons plus additional direction indicators, rear lights and side lights in accordance with StVZO (German road traffic licensing regulations) for the long conveyor
- Additional hydraulic connections for ancillary hydraulic equipment



Wirtgen GmbH  
Reinhard-Wirtgen-Strasse 2 · 53578 Windhagen · Germany  
Phone: +49 (0) 26 45/131-0 · Fax: +49 (0) 26 45/131-242  
Internet: [www.wirtgen.com](http://www.wirtgen.com) · E-Mail: [info@wirtgen.com](mailto:info@wirtgen.com)