

# DEEP DIAPHRAGM WALL TRENCH CUTTER "CMX-SE<sup>55</sup>

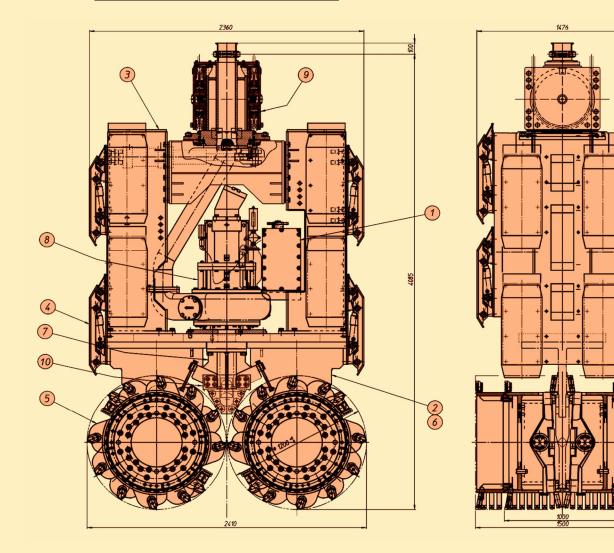
- Newly designed ultimate deep diaphragm wall trench cutter
- Wide range of wall thickness for 800 2400 mm
- High cutter torque can excavate a variety of ground formations from clay to soft rock
- Applicable to operate at restricted head room with min. 5100 mm
- Equipped with built-in heavy duty submersible sand pump for effective cutting disposal
- Simple structure design of trench cutter can save the cost for repair and maintenance

Remarks: Base machine shown in the picture is specially designed for the operation at low head room.



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#### **CMX-SE Trench Cutter Dimensions**



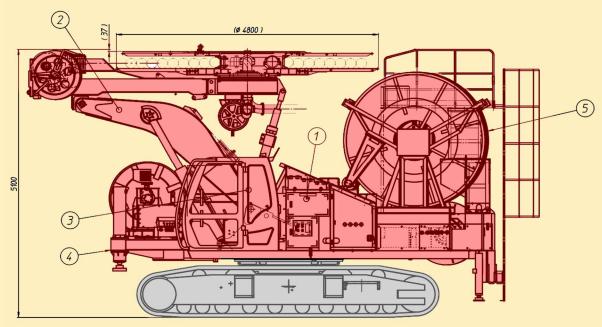
#### CMX-SE Trench Cutter Names of Parts

- ① Valve Box Assembly
- 2 Drive Shaft Assembly
- ③ Frame Assembly
- ④ Guide Assembly
- 5 Cutter Assembly
- 6 Plate Assembly, Cam
- ⑦ Plate Assembly, Center Joint
- 8 Sand Pump Assembly
- 9 Swivel Assembly, Running Block
- 1 Shoe Assembly

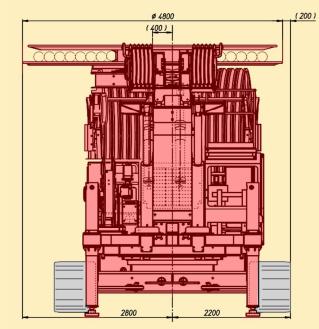
### CMX-SE Trench Cutter Technical Specifications

Range of Wall Thickness		800 – 2,400 mm	
Wall Length		2,400 mm (Optional: 3,200mm)	
Excavating Capacity		Max. 100 m	
Cutter RPM		0 – 23 min <sup>-1</sup> at 350 L/min.	
Max. Torque		78.4 kN-m at 32.8 MPa	
Hydraulic Motor for Cutter		0 – 260 kW	
Adjustable Guide		Hydraulic cylinder type	
Reverse Diameter		150 mm	
Height		4,185 mm	
pu	Discharge volume	7.5 m3/min. at 40 m TDH	
e sa		4.0 m3/min. at 75 m TDH	
Submersible sanc oump	Drive type	Hydraulic motor driven	
Subme	Hydraulic motor	0 – 132 kW	
Sul	Max. passage size	75 mm	
Weight of Trench Cutter		Approx. 18 tons at 1500 mm	
		wall thickness	

# Side View of CMX-SE Trench Cutter Base Machine

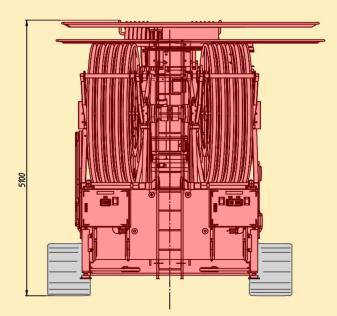


#### Front View of Base Machine



Names of Parts of Base Machine					
	1	Electric and Hydraulic System			
		Assembly			
	2	Frame Assembly			
	③ Operation Console Assembly				
	4	Base Assembly			
	5	Reel Assembly			

**Rear View of Base Machine** 



# Technical Specification of Base Machine

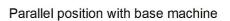
/pe	Crawler with electric motors
on o citu	Standard: 70 m Option: 100 m
apacity	using steel pipe connection
Line pull	117.6 kN x 4
	0 – 15 m/min. at 4 line
어 Wire rope size	26 mm (non-rotating type)
Spooling capacity	500 m (for 100 m depth)
ydraulic unit	480 kW driven by electric motor
able Reel & Cabtyre Cable	Servo motor with reduction gear,
r Adjustable Guide &	spooling capacity 100 m
eflection Indicator	(Cable length 120 m)
ose Reel Capacity	6" x 80 m

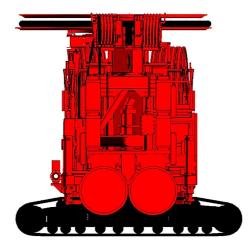
# With a Variety of Trencher Positioning

 $90^\circ\,$  angle position against base machine

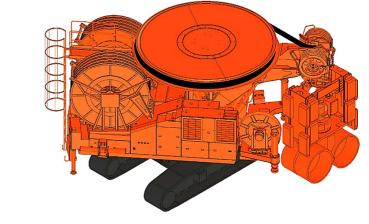


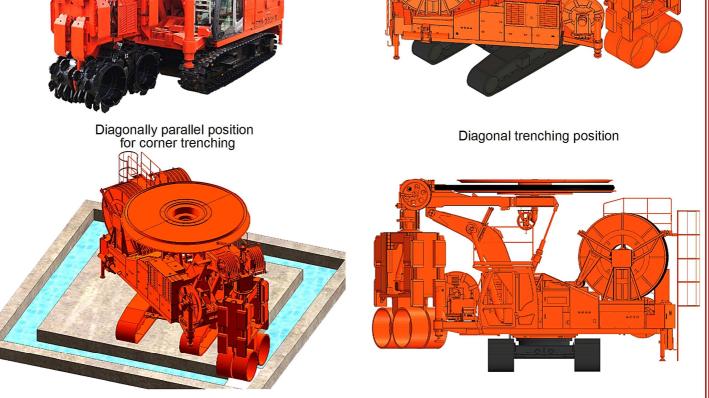
Straddle position with base machine





Diagonally parallel position For corner trenching





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