

# Z | MAKINA

## STOP-END SYSTEMS



Stop-ends are easily placed to the ground and coupled together through special steel bars. They are made of sheet metal welded and internal pipes reinforcing the structure increasing its strength and toughness to prevent it from any damage. It is easy to connect or disconnect.

Z Makina provides flat stop-ends in various lengths and widths as per customer requirements with the auxiliary proper equipment such as extractor, power pack.

As soon as the concrete begins to set, extractors pull out the stop-end elements. Z MAKINA produces for the extraction of stop-end elements having a width from 500 to 1500 mm and pulling capacity up to 4000 kN. The system is complete with locking system pins to prevent dropping of the column. Z MAKINA supplies the hydraulic power pack for the extractors, customized for the adequate power. A remote control integrated with power pack to operate the unit is also available as optional.



		ZE 100	ZE 150
Stop-End Capacity	mm	500-1000	500-1500
Height of Extractor	mm	2350	2350
Pulling Capacity	kN	2000/4000	2000/4000

## Cut-Off Wall with Stop-end with Water Stop

Cut-off wall systems are shoring systems applied to ensure the impermeability of the shoring system that will be constructed under high ground water table. The main function of this shoring system is to prevent ground water intrusion into the excavation, which can be implemented with diaphragm walls and intersecting bored piles. During production of cast in situ concrete diaphragm walls, the crucial point, especially to achieve a watertight joint, will be the use of the right stop end elements.

Stop-End with Water Stops has been developed and patented by **Z Makina**, provides water-tightness with water-holding band concreting process. For this purpose, a special rubber seal will be mounted on the side of Stop End Element which will come into contact with the concrete. The lateral movement of the stop-end element during extraction leaves the water-stop fixed in the concrete. Stop-end element is removal after concrete setting using suitable cranes.

**Z Makina** supplies Stop End Elements in various widths and lengths. The Stop End Elements are composed of: head element that is used for lifting and extraction, intermediate elements, starter element, and a platform on the ground for fixing the whole set.

In addition, to facilitate the use of Stop End Elements, **Z Makina** manufactures a special cleaner chisel for easy extraction.



## Z MAKINA TEKNOLOJISI A.S

S.S. İstanbul Mermerciler Küçük Sanayi Sitesi Yapı Kooperatifi  
29. Sokak No: 9 Köşeler Mah. 41455 Dilovası, Kocaeli, TÜRKİYE  
info@zmakina.com.tr - +90 262 728 11 22  
www.zmakina.com.tr