

# Twin Drive Concept TDC \_

doubly safe and reliable



- › **Safe** \_ two synchronously controlled hoist motors and brakes
- › **Controlled** \_ continuous monitoring of brakes, drives and load
- › **Redundant** \_ double gear and brake safety
- › **Long-lived** \_ robust and fully enclosed system

# No compromise on safety – when transporting molten metals



Version with auxiliary hoist

The sophisticated twin drive concept (TDC) from STAHL CraneSystems, a market leader for crane and hoist technology, is the uncompromising solution for hoists in accordance with DIN EN 14492-2, Appendix B. Hoists in TDC design are suitable for transporting molten metals and other goods with a similar risk potential. Wire rope hoists on the twin drive concept are equipped as standard with two motor-gear units. Both motors are always synchronously controlled. The brakes mounted on the two motors are designed so that in an emergency each one is capable of braking or holding the load by itself. Both brakes are activated in conjunction and act as operating and holding brakes. On twin drive concept hoists, all drives are monitored by STAHL CraneSystems condition monitoring systems.

S.W.L. in tonnes when transporting molten metals			
Frame size	Reeving	Monorail trolley	Double rail crab
SH 50 TDC	4/1	6.3–8	6.3–8
SH 60 TDC	2/1; 4/2–1	6.3–8	6.3–8
SH 60 TDC	4/1; 8/2–1	10–12.5–16	10–12.5–16
AS 70 TDC	2/1; 4/2–1		10–12.5–16
AS 70 TDC	4/1; 8/2–1		20–25–32
AS 70 TDC	6/1		40
SHW 80 TDC	8/2–1		40

## Cost-effective

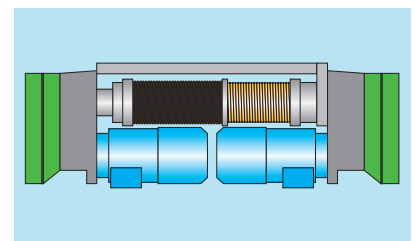
- standard components are used
- operating and safety brake are of identical design
- up to 60% higher S.W.L. when not transporting molten metals

## Safe

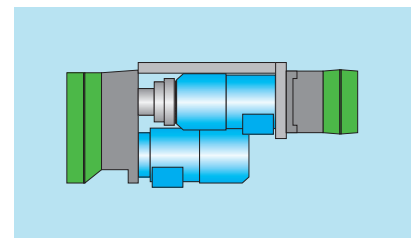
- brake does not need to be ›run free‹ when starting the lowering motion
- the twin drive concept prevents the load dropping even if the gear should break
- two brakes with manual release for emergency lowering – ›recovering the load‹ is not necessary

## Reliable

- smooth emergency braking
- friction linings are not constantly pressed together, there is no danger of them sticking
- long-lived thanks to robust, enclosed system



Hoist motors in a single axis (long rope drum)



Hoist motors staggered (short rope drum)

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