
DRIVE UNITS: ZN3 SMWH 1,0/30 (CAT) AND ZN3 SMWH 1,0/40 (CAT)



Device description:

The ZN3 SMWH 1.0/30 (CAT) and ZN3 SMWH 1.0/40 (CAT) drive units are a combination of a hydraulic motor type SMWH 1.0/30 or SMWH 1.0/40 with a multi-plate brake. The hydraulic motors are characterised by a special design for operation on emulsion power used in underground hydraulics in the mining industry. They can also operate on hydraulic oils.

The ZN3 SMWH 1.0/30 (CAT) and ZN3 SMWH 1.0/40 (CAT) drive units are slow-speed, high-torque units equipped with a brake system that operates automatically when the power is switched off.

Application of the equipment:

For transport and assembly systems with low movement speeds and high forces (torques). The design is adapted for use with scraper conveyor drives in the mining industry for chain loosening during length correction.

MANUFACTURE AND SERVICE

Grupa SM Hydro

ul. Karolinki 10B, 40-467 Katowice

tel.: +48 (32) 353 03 75

e-mail: biuro@smhydro.com.pl

www.smhydro.com.pl

All SMW-type motors are suitable for operation on HFA water-oil emulsion. They can also be operated with hydraulic and also vegetable oils.

Technical characteristics of ZN3 SMWH 1,0/30 (CAT) and ZN3 SMWH 1,0/40 (CAT) drive units:

Motor type		SMWH 1,0/30	SMWH 1,0/40
Nominal torque	Nm	206	274
Braking torque	Nm	około 400	
Nominal supply pressure *	MPa	22	
Maximum pressure at the outflow	MPa	2	
Geometric displacement	cm ³ /rev	70	92,5
Rotational speed range	rev/min	10÷1200	10÷800
Feed liquid	-	low-percentage water-oil emulsion HFA, hydraulic oil	
Filtration required	µm	100	
Total device weight	kg	20	21

* When fed with low-percentage HFA emulsion, continuous operation at pressures higher than nominal will result in accelerated wear of the toothed working mechanism of the motor. Pressures higher than nominal in continuous operation are recommended only when fed with hydraulic oils.

SMWH type hydraulic satellite motors can operate in potentially explosive atmosphere



Detailed information on motors range can be found at www.smhydro.com.pl

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