



URBAN
CLEANING
MACHINERY



AGRICULTURE
MACHINERY



PARKS
MAINTENANCE
MACHINERY



MINING
AND MATERIAL
HANDLING
MACHINERY



FORESTRY
MACHINERY



ROAD AND
CONSTRUCTION
MACHINERY

INNOVATIVE SYSTEMS FOR MOBILE APPLICATIONS

Hydraulic Pumps, Motors and Brakes
Product Overview

HANSA-TMP Innovation & Technology in Hydraulic Systems

HANSA-TMP, since 1984, is a global player in the development, production and distribution of a complete range of hydraulic components and systems. HANSA-TMP products are recognised worldwide for their quality and reliability, achieved by means of the painstaking research and development, watchful of every aspect of product development and manufacturing. HANSA-TMP provides tailored solutions for applications in the fields of construction, agriculture, oil & gas production and processing, mining, power generation, recycling, marine and transport.

ISO 9001 Quality Certification

ISO 14001 Environmental Certification



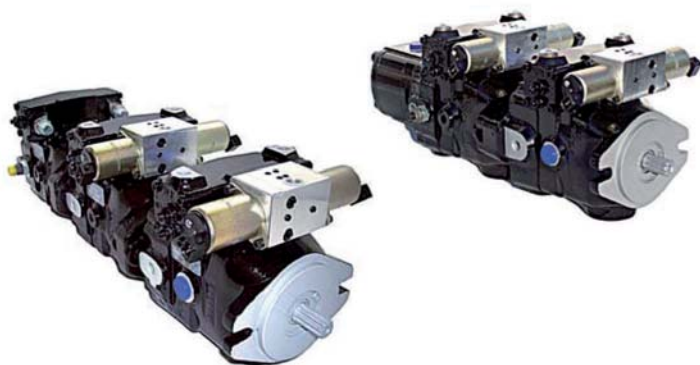
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TPV 1000

Variable Displacement Closed Loop System Axial Piston Pumps



Features:

- High rotation speed
- Compact design
- Suitable for multiple pump assembly

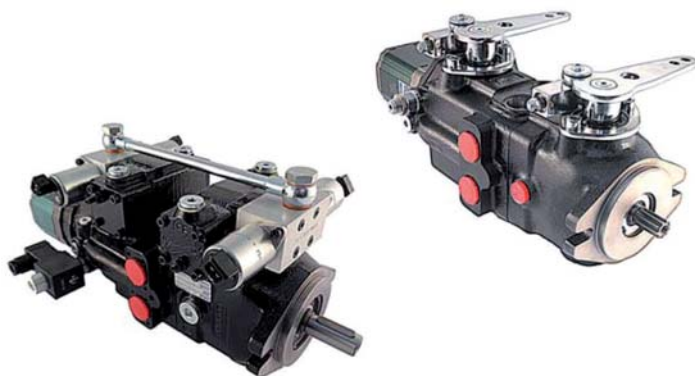
Accessories:

- By-pass valve
- Control lever with or without return spring
- Hydraulic servo-control
- Electro-proportional servo-control
- Man on board
- Purge valve
- SAE-A or SAE-B (only servo) mounting
- Screw by-pass

Displacement cm ³ /n.	Rated pressure MPa	Peak pressure MPa	Maximum speed n/min.	Weight kg (single pump)
6, 8, 9, 11, 12, 13	21	30	3.600	8,8
15, 17		28		
18		27		
19, 21	20	25	3.200	

TPV 1200 BTB

Variable Displacement Closed Loop System Axial Piston Compact Tandem Pumps



Features:

- Low noise level
- High rotation speed
- Compact design and reduced length
- Suitable for multiple pump assembly

Accessories:

- Auxiliary gear pumps group 1-2
- Control lever with or without return spring
- Hydraulic servo-control
- Electro-proportional servo-control
- Man on board
- Purge valve
- SAE-A or SAE-B (only servo) mounting
- Screw by-pass

Displacement cm ³ /n.	Rated pressure MPa	Peak pressure MPa	Maximum speed n/min.	Weight kg (tandem pump)
6, 8, 9, 11, 12, 13	21	30	3.600	19
15, 17		28		
18		27		
19, 21	20	25	3.200	

TPV - TPVTC 1500

Variable Displacement Closed Loop System Axial Piston Pumps


Features:

- Low noise level
- High rotation speed
- High performances
- Compact design
- Suitable for multiple pump assembly
- Built in pressure relief valves

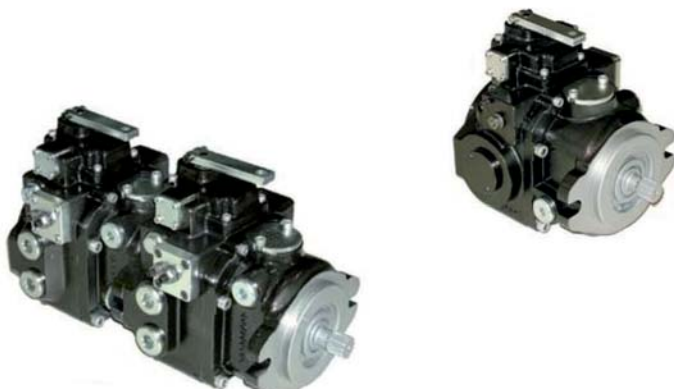
Accessories:

- Auxiliary gear pumps group 2 SAE-A
- Hydraulic servo-control
- Hydraulic servo-control with feed back
- Electro-proportional servo-control
- Electro-proportional servo-control with feed back
- Manual lever servo-control with feed back
- Man on board
- Purge valve
- SAE-B mounting
- Screw by-pass
- Sensors and transducers available on request

Displacement cm ³ /n.	Rated pressure MPa	Peak pressure MPa	Maximum speed n/min.	Weight kg (single pump)
17, 18, 19, 21, 22, 23, 24,5	35	40	3.600	14

TPV 3200

Variable Displacement Closed Loop System Axial Piston Pumps


Features:

- High rotation speed
- Compact design
- Suitable for multiple pump assembly

Accessories:

- Manual displacement servo-control
- Hydraulic proportional servo-control
- Electro-proportional servo-control
- Automotive
- Special versions
- SAE-B mounting

Displacement cm ³ /n.	Rated pressure MPa	Peak pressure MPa	Maximum speed n/min.	Weight kg (single pump)
21, 28	25	35	3.600	22



TPV 4300

Variable Displacement Closed Loop System Axial Piston Pumps



Features:

- High rotation speed
- Compact design
- Suitable for multiple pump assembly
- Built in pressure relief valves

Accessories:

- Hydraulic servo-control
- Electro-proportional servo-control
- SAE-B mounting
- Man on board
- Screw by-pass
- Special versions

Displacement cm ³ /n.	Rated pressure MPa	Peak pressure MPa	Maximum speed n/min.	Weight kg (single pump)
32, 38, 45, 50	25	35	3.900	23

TPV 5000

Variable Displacement Closed Loop System Axial Piston Pumps



Features:

- High rotation speed
- Compact design
- Suitable for multiple pump assembly

Accessories:

- Manual displacement servo-control
- Hydraulic proportional servo-control
- Electro-proportional servo-control
- Automotive
- Special versions
- SAE-B mounting

Displacement cm ³ /n.	Rated pressure MPa	Peak pressure MPa	Maximum speed n/min.	Weight kg (single pump)
46, 50, 64	30	40	3.600	29

TPV 9000

Variable Displacement Closed Loop System Axial Piston Pumps


Features:

- High rotation speed
- High pressure
- High performances
- Compact design

Accessories:

- Manual displacement servo-control
- Hydraulic proportional servo-control
- Electro-proportional servo-control
- SAE-C mounting

Displacement cm ³ /n.	Rated pressure MPa	Peak pressure MPa	Maximum speed n/min.	Weight kg (single pump)
55	40	45	4.000	55
72			4.100	68
90			4.000	
110			3.800	

S ... - SM ...

Wheel Drive Gearboxes


Features:

- Available with or without static brake
- Available with or without motor
- Compact design

Wheel drive unit model	Gear ratio	Output torque Nm	Maximum static load N	Maximum input speed n/min.	Weight kg (without motor)
S 050 - S 050 M	3,75 : 1	2.500	50.000	500	35
S 050 / 2	25 : 1	2.500	50.000	2.000	37
S 070 - S 070 M	4,75 : 1	3.500	50.000	1.000	43
S 070 / 2	34 : 1	3.500	50.000	2.000	46
S 242	12,3 : 46,5	2.800	80.000	3.000	42
S 243	109	3.000	80.000	3.500	49



TMF 300

Fixed Displacement
Axial Piston Motors



Features:

- Excellent weight/power ratio
- High rotation speed
- Excellent volumetric and mechanical efficiency
- Compact design

Displacement cm ³ /n.	Rated pressure MPa	Peak pressure MPa	Maximum speed n/min.	Weight kg
21, 28	25	35	3.600	7,8

TMF 500

Fixed Displacement
Axial Piston Motors



Features:

- Excellent weight/power ratio
- High rotation speed
- Excellent volumetric and mechanical efficiency
- Compact design

Displacement cm ³ /n.	Rated pressure MPa	Peak pressure MPa	Maximum speed n/min.	Weight kg
46, 50, 64	30	40	3.600	13

TMF 900

Fixed Displacement
Axial Piston Motors



Features:

- High pressure
- High rotation speed
- Excellent volumetric and mechanical efficiency
- Compact design

Displacement cm ³ /n.	Rated pressure MPa	Peak pressure MPa	Maximum speed n/min.	Weight kg
55	40	45	4.300	24
72			4.100	28
90			4.000	34
110			3.800	

TMV 550

Variable Displacement
Axial Piston Motors



Features:

- Excellent weight/power ratio
- High rotation speed
- Excellent volumetric and mechanical efficiency
- Compact design

Displacement cm ³ /n.	Rated pressure MPa	Peak pressure MPa	Maximum speed n/min.	Weight kg
46, 50, 64	30	40	4.000	20

BTM

Spring Loaded Disc Brakes



Features:

- Braking torque up to 520 Nm
- Suitable for different input / output shafts and flanges

Brake model	Static torque Nm	Maximum pilot pressure MPa	Maximum complete opening pressure MPa	Maximum speed n/min.	Weight kg
BTM 03	30 - 40	35	0,3 - 0,5	1.000	9,5
BTM 07	60 - 80		0,4 - 0,6		
BTM 11	100 - 120		0,7 - 0,9		
BTM 18	170 - 190		1,1 - 1,3		
BTM 24	230 - 250		1,1 - 1,3		
BTM 32	320 - 330		1,5 - 1,7		
BTM 42	400 - 440		1,5 - 1,7		
BTM 50	480 - 520		1,7 - 1,9		

BTM + MSU

Wheel Drive Motors with Spring Loaded Disc Brakes



Features:

- Braking torque up to 520 Nm
- Maximum radial load 10.000 N
- Wheel rim dimension from 8"

Wheel drive motor model	Static torque daNm	Traction torque daNm	Minimum complete opening pressure MPa	Max. brake pressure MPa
BTM 24 / MSU 80	23 - 25	24	1,1 - 1,3	30
BTM 32 / MSU 100	32 - 33	30,5	1,5 - 1,7	
BTM 42 / MSU 125	40 - 44	37,5	1,5 - 1,7	
BTM 50 / MSU 160	48 - 52	49	1,7 - 1,9	

Wheel drive motor model	Motor pressure MPa	Minimum speed n/min.	Maximum speed n/min.	Maximum load daN	Weight kg (without wheel)
BTM 24 / MSU 80	23	10	300	500	23
BTM 32 / MSU 100		10			23,3
BTM 42 / MSU 125		8			23,6
BTM 50 / MSU 160		8			24



HTG

Hydraulic Generators for High Quality Electricity driven by Hydraulic Motors and used with Fixed Displacement Pumps



Features:

- Frequency 50Hz or 60Hz
- AC current - 2 poles
- Mono-phase - Power from 3,5 to 10 kVA
- Three-phase - Power from 5,5 a 12 kVA
- Designed to provide clean and quiet electric power with low oscillation
- Flow regulator maintains frequency at 50Hz or 60Hz \pm 2%
- Automatic voltage regulation accuracy \pm 5%
- Total harmonic distortion less than 3%
- Standard plugs are according to DIN
- Standard protection class IP23

Accessories:

- Different voltages or frequencies
- Tropicalized winding
- Insulation system according to UL 1446
- Different types of accessories, such as switches, voltmeters, battery charger, sockets, etc.
- Certificates for the electric part: CE and CSA International are available
- Other protections on request

50Hz FREQUENCY

Generator model	kVA	Electric		Hydraulic		Motor type
		Number of phases	Alternator speed n/min.	Min. inlet flow l/min.	Maximum pressure MPa	
HTG 3,5 - 50	3,5	Single phase 115 / 230 V	3.000	22	17,5	Gear
HTG 4,5 - 50	4,5			22		
HTG 6,0 - 50	6,0			27		
HTG 7,0 - 50	7,0			35		
HTG 8,0 - 50	8,0			50		
HTG 10,0 - 50	10,0			60		
HTG 5,5 - 50	5,5	Three phases 230 / 400 V	3.000	27	17,5	Gear
HTG 7,0 - 50	7,0			35		
HTG 9,0 - 50	9,0			50		
HTG 10,0 - 50	10,0			60		
HTG 13,5 - 50	13,5			72		

60Hz FREQUENCY

Generator model	kVA	Electric		Hydraulic		Motor type
		Number of phases	Alternator speed n/min.	Min. inlet flow l/min.	Maximum pressure MPa	
HTG 3,5 - 60	4,2	Single phase 138 / 277 V	3.600	25	25	Piston
HTG 4,5 - 60	5,4			25		
HTG 6,0 - 60	7,2			30		
HTG 7,0 - 60	10,4			38		
HTG 8,0 - 60	9,8			55		
HTG 10,0 - 60	12,0			65		
HTG 5,5 - 60	7,0	Three phases 277 / 480 V	3.600	30	25	Piston
HTG 7,0 - 60	8,5			38		
HTG 9,0 - 60	11,0			55		
HTG 10,0 - 60	12,5			55		
HTG 13,5 - 60	16,5			74		



Applications

Hydrostatic Transmission



Two Wheels Walking Tractors



Brush Cutters



Concrete Floor
Finishers



Articulated Tandem
Vibratory Rollers



Mowers



De-mining Flails

APPLICATIONS



Applications

Hydrostatic Transmission



Rider
Scrubbers



Multi Purpose
Loaders

Mini Loaders



Skid Steer Loaders



Zero Turns

APPLICATIONS



Applications

Hydrostatic Transmission



Harvesters



Sweepers (Outside)

Applications

Hydraulic Generators



Yachts



Lifting Magnets

Aerial Platforms





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