



HYDRAULIC COMPONENTS  
HYDROSTATIC TRANSMISSIONS  
GEARBOXES - ACCESSORIES

Certified Company ISO 9001 - 14001



Via M. L. King, 6 - 41122 MODENA (ITALY)  
Tel: +39 059 415 711  
Fax: +39 059 415 729 / 059 415 730  
INTERNET: <http://www.hansatmp.it>  
E-MAIL: [hansatmp@hansatmp.it](mailto:hansatmp@hansatmp.it)

HT 16 / M / 5000 / 0217 / E

## THE PRODUCTION LINE OF HANSA-TMP

# Fixed Displacement Bent Axis Pumps TPB 70 Series Dual Displacement Bent Axis Pumps TPD 70 Series Fixed Displacement Bent Axis Motors TMB 700 Series



TPB 70 Pump  
012-130 DIN



TPB 70 Pump  
012-130 ISO



TPD 70 Pump  
56+26 / 53+53 DIN



TMB 700 Motor  
012-130 DIN



TMB 700 Motor  
012-108 SAE



TMB 700 Motor  
012-130 ISO



TMB 700 Motor  
025-108 M2



## Fixed Displacement Bent Axis Pumps



### TPB 70 (012-130 DIN)

TPB 70 (012-130 DIN) is a fixed displacement bent-axis pump for mobile hydraulic applications.

TPB 70 (012-130DIN) pumps displacement range 012-130 cm<sup>3</sup>/rev. Maximum operating pressure is 400 bar. This pump meets the market's high demands due to its high flow performance, pressure efficiency and simplest of installation.

#### Further advantages:

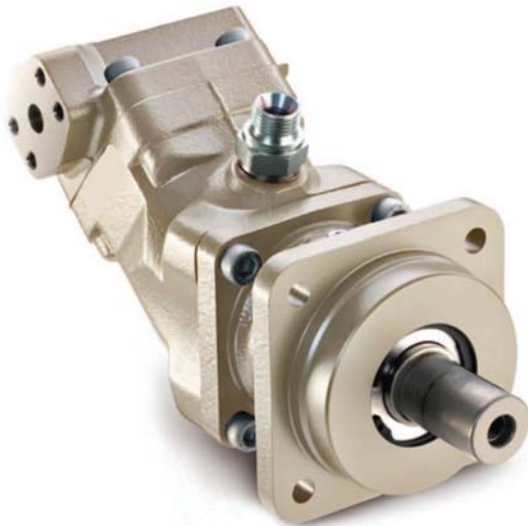
- Low noise levels at high maximum speed due to its quality production and design.
- The operation over the entire speed range is smooth.
- Long usage life due to its high demands on material selection such as seals, bearings, ect.
- To avoid leakage from the pump and PTO, there are O-rings on all contact surfaces and double shaft seals for high pressure.
- All pumps are test under extreme testing environment before delivery to custom.
- Easy to change the rotation of pump flow.

TPB 70 PUMP (012 - 130 DIN)								
Pump Code	Displacement	Maximum Continuous Pressure	Maximum Peak Pressure	Continuous Rotating Speed	Maximum Rotating Speed	Overhang Torque	Working Temperature Min. / Max.	Weight
	cm <sup>3</sup> /n	bar	bar	n/min.	n/min.	Nm	°C	Kg
TPB 70 - 012 DIN *	12,4	400	450	2.300	3.000	6,9	-35 / +90	8
TPB 70 - 017 DIN *	17,1			2.300	3.000	6,9		8
TPB 70 - 025 DIN	25,2			2.300	3.000	7,4		9
TPB 70 - 034 DIN	34,0			2.300	3.000	7,4		9
TPB 70 - 040 DIN	40,8			1.900	2.500	13		12
TPB 70 - 047 DIN	47,2			1.900	2.500	13		12
TPB 70 - 056 DIN	55,8			1.900	2.500	13		12
TPB 70 - 064 DIN	63,4			1.900	2.500	13		12
TPB 70 - 084 DIN	83,5			1.500	2.000	21		17
TPB 70 - 090 DIN	90,4			1.500	2.000	21		17
TPB 70 - 108 DIN	108,1			1.500	2.000	21		17
TPB 70 - 130 DIN	130,3			1.500	2.000	24		19

\* Not yet available.

Fixed Displacement Bent Axis Pumps

TPB 70 (012-130 ISO)



TPB 70 (012-130 ISO) is a fixed displacement bent-axis pump for stationery & mobile hydraulic applications.

TPB 70 (012-130 ISO) standard range of displacement from 12-130 cm<sup>3</sup>/rev. Maximum operating pressure up to 400 bar. The pump well design and dimensioned, double tapered roller bearings permit high shaft loads and performance characteristics. This pump is drained xternally. We supply five different shaft types.

Further advantages:

- Low noise levels at high maximum speed due to its quality production and design.
- The operation over the entire speed range is smooth.
- Long usage life due to its high demands on material selection such as seals, bearings, ect

TPB 70 PUMP (012 - 130 ISO)								
Pump Code	Displacement	Maximum Continuous Pressure	Maximum Peak Pressure	Max. Pump Speed n <sub>max.</sub> <sup>(1)</sup>	Max. Pump Speed n <sub>max. limit</sub> <sup>(2)</sup>	Maximum Power	Working Tempreture Min. / Max.	Weight
	cm <sup>3</sup> /n	bar	bar	n/min.	n/min.	Kw	°C	Kg
TPB 70 - 012 ISO *	12,4	350	400	2.300	3.000	25	-35 / +90	7,7
TPB 70 - 017 ISO *	17,1			2.300	3.000	35		7,7
TPB 70 - 025 ISO	25,2			2.300	3.000	40		8,7
TPB 70 - 034 ISO	34,0			2.300	3.000	50		8,7
TPB 70 - 040 ISO	40,8			1.900	2.500	55		15,5
TPB 70 - 047 ISO	47,2			1.900	2.500	65		15,5
TPB 70 - 056 ISO	55,8			1.900	2.500	75		15,5
TPB 70 - 064 ISO	63,4			1.900	2.500	85		15,5
TPB 70 - 084 ISO	83,5			1.500	2.000	90		27
TPB 70 - 090 ISO	90,4			1.500	2.000	95		27
TPB 70 - 108 ISO	108,1			1.500	2.000	120		30
TPB 70 - 130 ISO	130,3			1.500	2.000	120		30

\* Not yet available.

Intermittent operation is equated to a max. of 6 seconds per minute.

(1) The values shown are valid for an absolute pressure of 1 bar at the suction inlet.

(2) By increase of the input pressure the rotational speeds can be increased to the max. admissible speed n<sub>max limit</sub>.

## Dual Displacement Bent Axis Pumps



### TPD 70 (56+26 / 53+53 DIN) dual displacement

TPD dual displacement pump is an ideal solution for vehicles that require two different flows.

Dual displacement pumps are the best solution for vehicles with several types of hydraulic equipment such as refuse trucks. Single flow large pump can be a poor solution for these vehicles. For different movement of certain parts of equipment such as fast movement or slow movement. A TPD pump is most economical solution and high performance. TPD pumps come with two equal large flows or one large and one small flow.

#### For variety system solutions:

- Two different circuits
- Parallel working operation

TPD 56+26 is a twin pump with two separate flows of different size  
TPD 53+53 is a twin pump with two separate flows of the same size

TPD 56+26 has one flow with 56 cm<sup>3</sup>/rev and the second flow 26 cm<sup>3</sup>/rev.

TPD 53+53 has two flows of 53 cm<sup>3</sup>/rev each.

The maximum pressure reaches up to 400 bar per each flow. It can be offered with right (R) or left (L) rotation direction.

#### Further benefits:

- Low noise levels at high maximum speed due to its quality production and design.
- The operation over the entire speed range is smooth.
- Long usage life due to its high demands on material selection such as seals, bearings, ect

TPD 70 PUMP (056+026 / 053+053 DIN)								
Pump Code	Displacement	Maximum Continuous Pressure	Maximum Peak Pressure	Continuous Rotating Speed	Maximum Rotating Speed	Overhang Torque	Working Temperature Min. / Max.	Weight
	cm <sup>3</sup> /n	bar	bar	n/min.	n/min.	Nm	°C	Kg
TPD 70 - 056+026 DIN	82,0	350	400	1.200	1.850	21	-35 / +90	18
TPD 70 - 053+053 DIN	106,0	350	400	1.200	1.850	26	-35 / +90	21



## Fixed Displacement Bent Axis Motors



### TMB 700 (012-130 DIN)

TMB 700 (012-130 DIN) is bent-axis motor an ideal for mobile hydraulics. These motors are spherical pistons as a type of bent-axis.

TMB 700 (012-130 DIN) the simplest of design it gives a compact motor with few moving parts, high starting torque and high operational reliability. Displacement range 12-130 cm<sup>3</sup>/rev. max pressure 400 bar. Long usage life due to its high demands on material selection such as seals, bearings, hardening methods, ect.

#### Further advantages:

- Low noise levels at high maximum speed due to its quality production and design.
- The operation over the entire speed range is smooth.
- Long life with high performance.
- An ideal solution for applications that require high angular accelerations.

TMB 700 MOTOR (012 - 130 DIN)										
Motor Code	Displacement	Maximum Continuous Pressure	Maximum Peak Pressure	Maximum Continuous Revolutions	Maximum Intermittent Revolutions	Maximum Continuous Power	Maximum Intermittent Power	Starting Torque Theoretical Value	Working Temperature Min/Max	Weight
	cm <sup>3</sup> /n	bar	bar	n/min.	n/min.	kW	kW	Nm / bar	°C	Kg
TMB 700 - 012 DIN	12,4	350	400	2.400	3.000	14	18	0,2	-35 / +90	8,8
TMB 700 - 017 DIN	17,1			2.400	3.000	19	24	0,27		8,8
TMB 700 - 025 DIN	25,2			2.400	3.000	29	36	0,4		9,2
TMB 700 - 034 DIN	34,0			2.400	3.000	39	49	0,54		9,2
TMB 700 - 040 DIN	40,8			2.000	2.500	46	57	0,66		9,2
TMB 700 - 047 DIN	47,2			2.000	2.500	52	65	0,75		13,3
TMB 700 - 056 DIN	55,8			2.000	2.500	62	78	0,9		13,3
TMB 700 - 064 DIN	63,4			2.000	2.500	70	88	1,1		13,3
TMB 700 - 084 DIN	83,5			1.600	2.000	74	93	1,34		18,7
TMB 700 - 090 DIN	90,4			1.600	2.000	84	104	1,58		18,7
TMB 700 - 108 DIN	108,1			1.600	2.000	96	120	1,74		18,7
TMB 700 - 130 DIN	130,3			1.600	2.000	99	124	2,09		20

**Information about technical data**

- ° Speed data concern is depending on maximum permitted peripheral velocity for the tapered roller bearings.
- ° For some applications, max. intermitted power can be suitable. Contact our Tech. Dept. for further information.
- ° In term of continuous power data is based on maximum output power, no need for external cooling of motor housing.
- ° Intermittent duty is defined as follows: max. 6 seconds per minute, e.g. peak speed when unloading or accelerating.

## Fixed Displacement Bent Axis Motors



### TMB 700 (012-108 SAE)

TMB 700 (012-108 SAE) is bent-axis motor, an ideal for mobile hydraulics. These motors are spherical pistons as a type of bent-axis.

TMB 700 (012-108 SAE) is an bent-axis type with spherical pistons. The robust design gives a perfect compact motor with few moving parts, high starting torque and perfect reliability.

The displacement is from 012-108 cm<sup>3</sup>/rev with a maximum 400 bar. It comes with double tapered roller bearings that allow high shaft loads and results perfect speed performance. This motor meets the market's high demands due to its high speed performance, pressure efficiency and simplest of installation.

#### Further advantages:

- Low noise levels at high maximum speed due to its quality production and design.
- The operation over the entire speed range is smooth.
- We offer it in many different types of shafts and connections parts.
- Long life with high performance.
- An ideal solution for applications that require high angular accelerations.

TMB 700 MOTOR (012 - 108 SAE)										
Motor Code	Displacement	Maximum Continuous Pressure	Maximum Peak Pressure	Maximum Continuous Revolutions	Maximum Intermittent Revolutions	Maximum Continuous Power	Maximum Intermittent Power	Starting Torque Theoretical Value	Working Temperature Min/Max	Weight
	cm <sup>3</sup> /n	bar	bar	n/min.	n/min.	kW	kW	Nm / bar	°C	Kg
TMB 700 - 012 SAE B	12,4	350	400	7.500	8.250	20	50	0,2	-35 / +90	9,1
TMB 700 - 017 SAE B	17,1			7.500	8.250	25	70	0,27		9,1
TMB 700 - 025 SAE B *	25,2			5.900	5.900	40	80	0,4		9,1
TMB 700 - 034 SAE B *	34,0			5.900	5.900	55	110	0,54		9,1
TMB 700 - 025 SAE C *	25,2			5.900	6.500	40	80	0,4		9,2
TMB 700 - 034 SAE C *	34,0			5.900	6.500	55	110	0,4		9,2
TMB 700 - 040 SAE C *	40,8			5.300	5.900	60	120	0,66		9,2
TMB 700 - 047 SAE C *	47,2			5.300	5.900	65	130	0,75		13,3
TMB 700 - 056 SAE C *	55,8			5.300	5.900	80	160	0,89		13,3
TMB 700 - 064 SAE C *	63,4			5.300	5.900	90	180	0,98		13,3
TMB 700 - 084 SAE C *	83,5			4.400	4.800	100	200	1,34		18,7
TMB 700 - 090 SAE C *	90,4			4.400	4.800	110	220	1,43		18,7
TMB 700 - 108 SAE C *	108,1			4.400	4.800	130	260	1,69		18,7

\* Not yet available.

#### Information about technical data

° Speed data concern is depending on maximum permitted peripheral velocity for the tapered roller bearings.

° For some applications, max. intermittent power can be suitable. Contact our Tech. Dept. for further information.

° In term of continuous power data is based on maximum output power, no need for external cooling of motor housing.

° Intermittent duty is defined as follows: max. 6 seconds per minute, e.g. peak speed when unloading or accelerating.

## Fixed Displacement Bent Axis Motors

### TMB 700 (012-130 ISO)

TMB 700 (012-130 ISO) is bent-axis motor, an ideal for mobile hydraulics. These motors are spherical pistons as a type of bent-axis.

TMB 700 (012-130 ISO) is an bent-axis type with spherical pistons. The robust design gives a perfect compact motor with few moving parts, high starting torque and perfect reliability.

The displacement is from 12-130 cm<sup>3</sup>/rev with a maximum 400 bar. It comes with double tapered roller bearings that allow high shaft loads and results perfect speed performance. This motor meets the market's high demands due to its high speed performance, pressure efficiency and simplest of installation.

#### Further advantages:

- Low noise levels at high maximum speed due to its quality production and design.
- The operation over the entire speed range is smooth.
- We offer it in many different types of shafts and connections parts.
- Long life with high performance.
- An ideal solution for applications that require high angular accelerations.



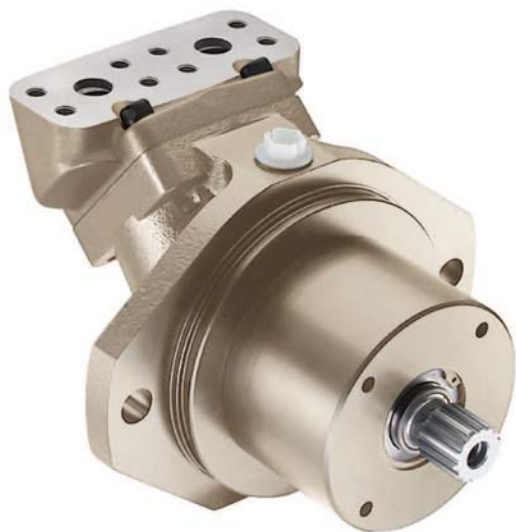
TMB 700 MOTOR (012 - 130 ISO)												
Motor Code	Displacement	Maximum Continuous Pressure	Maximum Peak Pressure	Maximum Continuous Revolutions	Maximum Intermittent Revolutions	Maximum Continuous Power	Maximum Intermittent Power	Starting Torque Theoretical Value	Working Temperature Min/Max	Weight		
	cm <sup>3</sup> /n	bar	bar	n/min.	n/min.	kW	kW	Nm / bar	°C	Kg		
TMB 700 - 012 ISO	12,4	350	400	8.000	8.800	20	54	0,2	-35 / +90	8,8		
TMB 700 - 017 ISO	17,1			8.000	8.800	25	74	0,27		8,8		
TMB 700 - 025 ISO	25,2			6.300	7.000	40	86	0,4		9,6		
TMB 700 - 034 ISO	34,0			6.300	7.000	55	115	0,54		9,6		
TMB 700 - 040 ISO	40,8			5.700	6.300	60	125	0,66		16,7		
TMB 700 - 047 ISO	47,2			5.700	6.300	65	145	0,75		16,7		
TMB 700 - 056 ISO	55,8			5.700	6.300	80	175	0,9		16,7		
TMB 700 - 064 ISO	63,4			5.700	6.300	90	195	1,1		16,7		
TMB 700 - 084 ISO	83,5			4.700	5.200	100	215	1,34		28,2		
TMB 700 - 090 ISO	90,4			4.700	5.200	110	230	1,58		28,2		
TMB 700 - 108 ISO	108,1			4.700	5.200	130	275	1,72		30,6		
TMB 700 - 130 ISO	130,3			300	350	4.700	5.200	135		285	2,04	30,6

**Information about technical data**

- ° Speed data concern is depending on maximum permitted peripheral velocity for the tapered roller bearings.
- ° For some applications, max. intermitted power can be suitable. Contact our Tech. Dept. for further information.
- ° In term of continuous power data is based on maximum output power, no need for external cooling of motor housing.
- ° Intermittent duty is defined as follows: max. 6 seconds per minute, e.g. peak speed when unloading or accelerating.



## Fixed Displacement Bent Axis Motors



### TMB 700 (025-108 M2)

TMB 700 (025-108 M2) modern motor with cartridge flange ideal choice for winch, slewing, wheel and track drives.

TMB 700 (025-108 M2) is an bent-axis type with spherical pistons. The robust design gives a perfect compact motor with few moving parts, high starting torque and perfect reliability.

The displacement is from 25-108 cm<sup>3</sup>/rev with a maximum 400 bar. It comes with double tapered roller bearings that allow high shaft loads and results perfect speed performance. This motor meets the market's high demands due to its high speed performance, pressure efficiency and simplest of installation

#### Further advantages:

- Low noise levels at high maximum speed due to its quality production and design.
- The operation over the entire speed range is smooth.
- Long life with high performance.
- An ideal solution for applications that require high angular accelerations.

TMB 700 MOTOR (025 - 108 M2)										
Motor Code	Displacement	Maximum Continuous Pressure	Maximum Peak Pressure	Maximum Continuous Revolutions	Maximum Intermittent Revolutions	Maximum Continuous Power	Maximum Intermittent Power	Starting Torque Theoretical Value	Working Temperature Min/Max	Weight
	cm <sup>3</sup> /n	bar	bar	n/min.	n/min.	kW	kW	Nm / bar	°C	Kg
TMB 700 - 025 M2	25,2	350	400	6.300	7.000	40	86	0,4	-35 / +90	9,6
TMB 700 - 034 M2	34,0			6.300	7.000	55	115	0,54		9,6
TMB 700 - 040 M2	40,8			5.700	6.300	60	125	0,66		16,7
TMB 700 - 047 M2	47,2			5.700	6.300	65	145	0,75		16,7
TMB 700 - 056 M2	55,8			5.700	6.300	80	175	0,9		16,7
TMB 700 - 064 M2	63,4			5.700	6.300	90	195	1,1		16,7
TMB 700 - 084 M2	83,5			4.700	5.200	100	215	1,34		28,2
TMB 700 - 090 M2	90,4			4.700	5.200	110	230	1,58		28,2
TMB 700 - 108 M2	108,1			4.700	5.200	130	275	1,72		28,2

#### Information about technical data

° Speed data concern is depending on maximum permitted peripheral velocity for the tapered roller bearings.

° For some applications, max. intermitted power can be suitable. Contact our Tech. Dept. for further information.

° In term of continuous power data is based on maximum output power, no need for external cooling of motor housing.

° Intermittent duty is defined as follows: max. 6 seconds per minute, e.g. peak speed when unloading or accelerating.

## Typical Applications





As HANSA-TMP has a very extensive range of products and some products have a variety of applications, the information supplied may often only apply to specific situations.

If the catalogue does not supply all the information required, please contact HANSA-TMP.

In order to provide a comprehensive reply to queries we may require specific data regarding the proposed application.

Whilst every reasonable endeavour has been made to ensure accuracy, this publication cannot be considered to represent part of any contract, whether expressed or implied.

The data in this catalogue refer to the standard product.

The policy of HANSA-TMP consists of a continuous improvement of its products. It reserves the right to change the specifications of the different products whenever necessary and without giving prior information.



Via M. L. King, 6 - **41122 MODENA (ITALY)**

Tel: +39 059 415 711

Fax: +39 059 415 729 / 059 415 730

INTERNET: <http://www.hansatmp.it>

E-MAIL: [hansatmp@hansatmp.it](mailto:hansatmp@hansatmp.it)

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