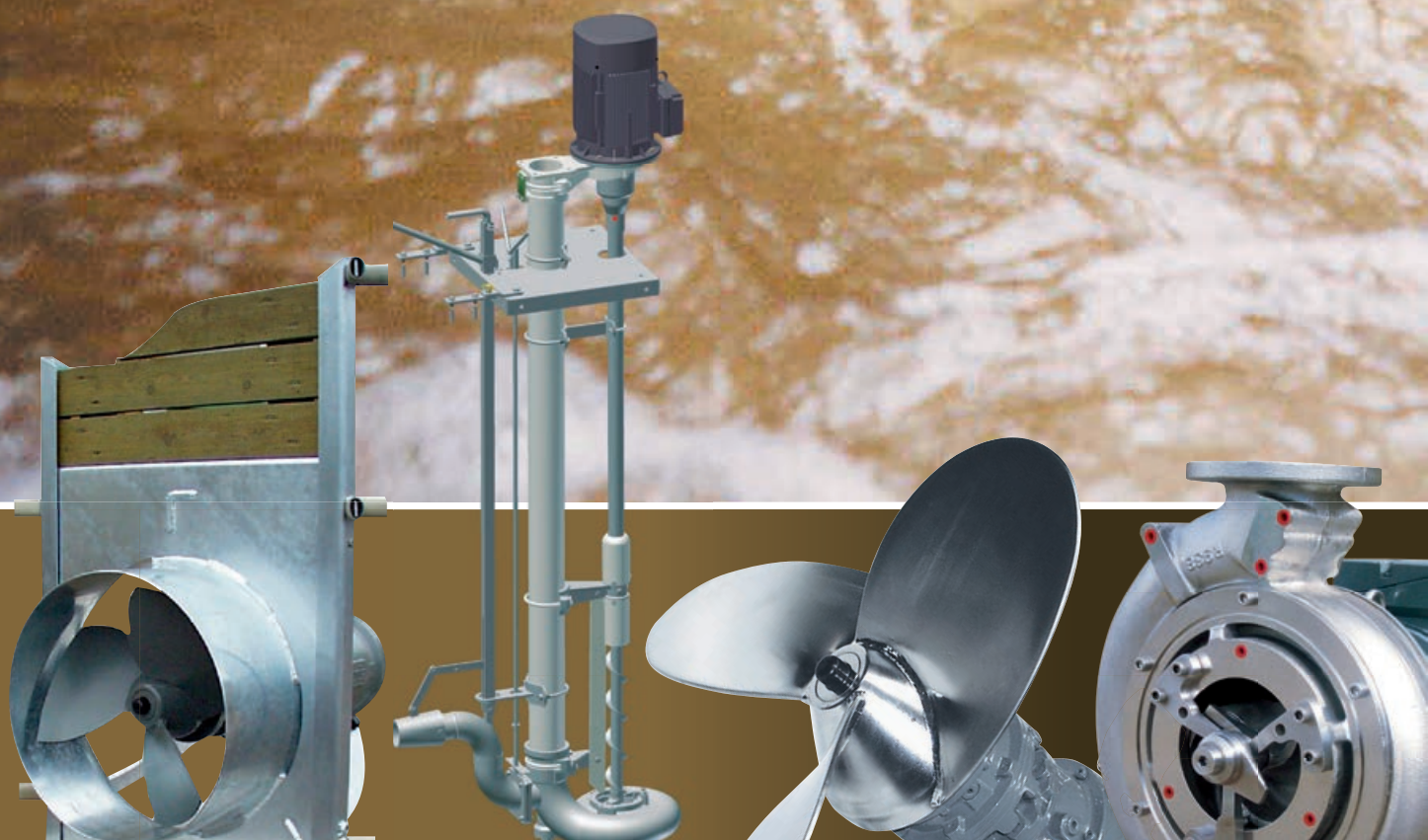




# Pumps & Mixers for slurry handling



- Mixing
- Pumping
- Valves
- Sluice Gates

POMP  IRECT

**Landia**<sup>®</sup>

[www.LandiaWorld.com](http://www.LandiaWorld.com)

# Long Shaft Slurry Pump MPG & TPG

Available as 4", 5" or 6" and with motors from 5.5 – 30 kW there is a Landia Long Shaft Pump for almost any slurry application.

The MPG & TPG pump can pump slurry with a high concentration of solids – significantly more than the "average" slurry pump. The unique pump design with pump suction from the top and the special auger further improves the capability of pumping slurry containing lots of straw.

We offer individual pump solutions with a choice of different options such as fixed- or adjustable mixing nozzles, two-way valves, transfer pipe and pump length up to 6 m.



Option: Adjustable bottom flushing.

- Seven motor sizes from 5.5 to 30 kW
- 4", 5" or 6" discharge
- Capacity up to approximately 450 m<sup>3</sup>/hour

#### Special features:

- Chopping knives are standard – prevents clogging of pump
- Knife system available in two versions: standard or extended
- Auger system helps feeding the pump
- Also available for PTO operation



Chopping knives of hardened steel and auger conveyor assure that solids are shredded and thus eliminate pump inlet clogging.



Right angle gear for PTO operation  
**Optimum efficiency:**  
540 rpm. for 4"/5" pumps  
and 1000 rpm. for 6" pumps.

# Landia slurry pump type TPG and MPG

Pipe dimension: 4" (ø114), 5" (ø140) or 6" (ø168).

## Performance and specifications: (Valid in water)

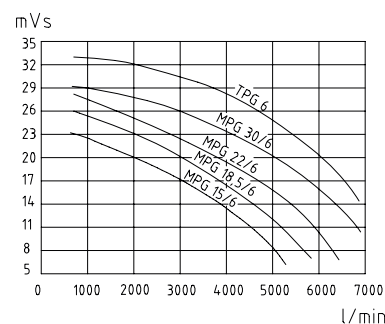
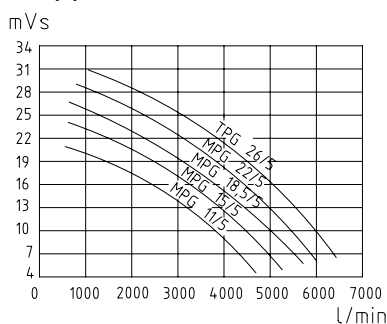
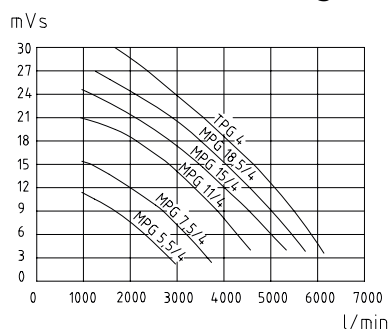
Article no.	Rated power kW	Consumption at 3x400 V amp	Weight approx. kg	Pump type	Performance at 4 m head			Max Head, m
					Thin ~ l/min.	Medium ~ l/min.	Very thick ~ l/min.	
2109402	20*	--	300	TPG4	5600	4750	2800	21,5
2004422	5,5	11,0	300	MPG5,5/4	2300	1950	1150	9,5
2004423	7,5	15,0	300	MPG7,5/4	3200	2700	1600	10,5
2004424	11,0	21,5	300	MPG11/4	4100	3500	2050	14,5
2004425	15,0	29,0	300	MPG15/4	4800	4100	2400	17,0
2004430	18,5	35,0	300	MPG18,5/4	5200	4500	2550	19,5
2109502	26*	--	350	TPG5	5850	5250	3500	21,5
2004523	11,0	21,5	350	MPG11/5	4200	3750	2500	14,5
2004524	15,0	29,0	350	MPG15/5	4850	4350	2900	17,0
2004525	18,5	35,0	350	MPG18,5/5	5500	4950	3300	19,5
2004534	22,0	43,0	370	MPG22/5	5700	5100	3400	20,5
2109603	37**	--	400	TPG6	7650	7250	5350	23,0
2004621	15,0	29,0	400	MPG15/6	5100	4850	3550	17,0
2004623	18,5	35,0	400	MPG18,5/6	5750	5450	4000	19,0
2004624	22,0	43,0	400	MPG22/6	6350	6000	4450	20,0
2004625	30,0	57,0	400	MPG30/6	7000	6650	4900	21,0

\*Power requirement for 4"/5" TPG-pumps at 540 rpm on the power take off.

\*\*Power requirement for 6" TPG-pumps at 1000 rpm on the power take off.

### Pump diagrams:

The diagrams are applicable for water (0% dry matter content)



Standard slurry pumps are supplied with right angle gears or electric motors, as well as auger and knife system. Drainage pipe, bottom flushing equipment, two-way tap and PTO shaft are available as optional equipment.

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**Head office:**  
Landia A/S  
Industrivej 2  
DK-6940 Lem St.  
Tel.: +45 97 34 12 44  
Fax: +45 97 34 16 98  
e-mail: info@landia.dk  
www.LandiaWorld.com



**UK-Branch:**  
Landia (UK) Ltd.  
Waymills Industrial Estate  
Whitchurch, Shropshire SY13 1TT  
Tel.: 01948 661 200  
Fax: 01948 661 201  
Email: info@landia.co.uk  
www.landia.co.uk

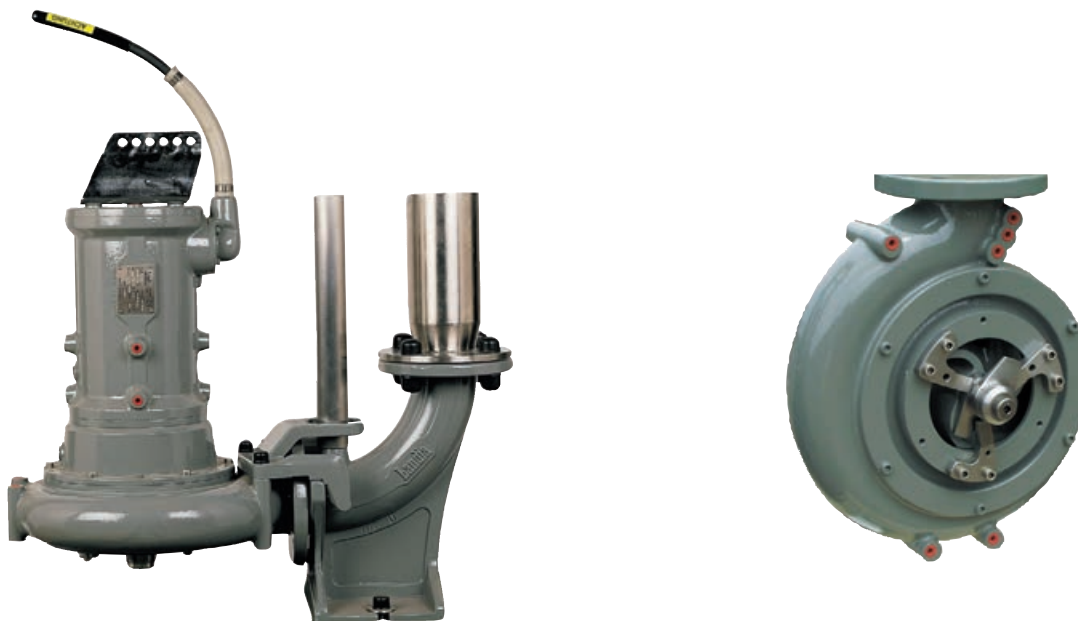
# Submersible Slurry Pump DG

Extremely versatile submersible slurry pump with motors ranging from 0.55 – 30 kW.

The DG Slurry Pump can handle slurry with a high concentration of solids – significantly more than most other submersible pumps. The unique pump design improves the capability of pumping slurry containing straw.

Abrasive liquids, such as slurry with sand, has led to the development of optional pump components in hardened cast iron which significantly increases the life time.

We offer individual pump solutions with a choice of different types of installation equipment all of which are capable of working under frost-free conditions even at low temperatures.



- 14 motor sizes from 0.55 – 30 kW
- 50, 65, 80, 105 or 150 mm pump discharge
- Capacity up to approximately 475 m<sup>3</sup>/hour

#### Special features:

- Chopping knives are standard – prevents clogging of pump
- Knife system available in two versions: standard or extended
- Available with hardened pump components – for abrasive slurry
- Close coupled, compact design

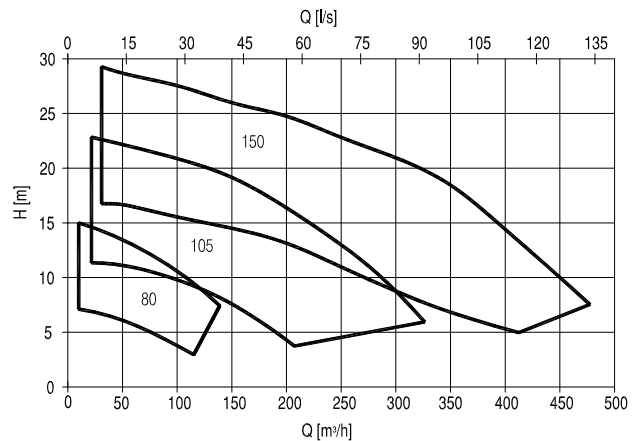
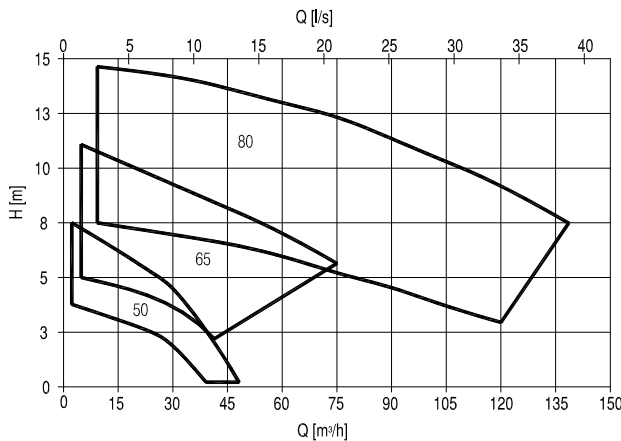
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# Submersible Slurry Pump DG medium pressure

■ **Performance and specifications:** (valid in water)

Article no.	Type	Motor size kW	Consumption at 3x400V amp	Tank opening horiz. mounted W x L (min.)	Weight kg
2304196	DG 50	0,55	1,6	550x400	25
2304197	DG 50	0,75	2,1	550x400	25
2304718	DG 65	1,1	2,6	650x500	45
2304711	DG 65	1,5	3,4	650x500	50
2304712	DG 65	2,2	5,0	650x500	55
2304813	DG 80	3,0	6,7	750x550	80
2304814	DG 80	4,0	8,8	750x550	85
2304815	DG 80	5,5	11,0	750x550	100
2304917	DG 105	7,5	15,0	850x650	150
2304911	DG 105	11,0	21,5	850x650	160
2304915	DG 105	15,0	29,0	900x650	200
2304918	DG 105	18,5	35,0	900x650	210
2304618	DG 150	18,5	35,0	1000x750	265
2304622	DG 150	22,0	43,0	1000x750	325
2304630	DG 150	30,0	57,0	1000x750	350

Motor: 3-phased AC motor, 50 Hz, voltage: 400V, 1500 rpm.  
Motors with other electrical specifications upon request.



■ **Materials:**

Motor casing, pump casing and impeller: Cast iron A48-40B  
Knife system: Hardened steel

■ **For correct sizing please supply us with the following information:**

- purpose of application
- type of liquid
- length of pipe
- total head
- pressure/performance required
- dry matter content
- diameter of pipe

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**Head office:**  
Landia A/S  
Industrivej 2  
DK-6940 Lem St.  
Tel.: +45 97 34 12 44  
Fax: +45 97 34 16 98  
e-mail: info@landia.dk  
www.LandiaWorld.com



**UK-Branch:**  
Landia (UK) Ltd.  
Waymills Industrial Estate  
Whitchurch, Shropshire SY13 1TT  
Tel.: 01948 661 200  
Fax: 01948 661 201  
Email: info@landia.co.uk  
www.landia.co.uk

# Submersible High Pressure Slurry Pump DG H

Extremely versatile submersible high pressure slurry pump with motors ranging from 2.2 – 30 kW.

The DG H Slurry Pump can handle slurry with a high concentration of solids and is designed for pumping these at pressures up to 5 bar and over distances of up to several kilometers.

Abrasive liquids, such as slurry with sand, has led to the development of optional pump components in hardened cast iron which significantly increases the life time.

We offer individual pump solutions with a choice of different types of installation equipment all of which are capable of working under frost-free conditions even at low temperatures.



- 10 motor sizes from 2.2 – 30 kW
- 50, 65, or 80 mm pump discharge
- Capacity up to approximately 220 m<sup>3</sup>/hour

#### Special features:

- Chopping knives are standard – prevents clogging of pump
- Knife system available in two versions: standard or extended
- Available with hardened pump components – for abrasive slurry
- Close coupled, compact design

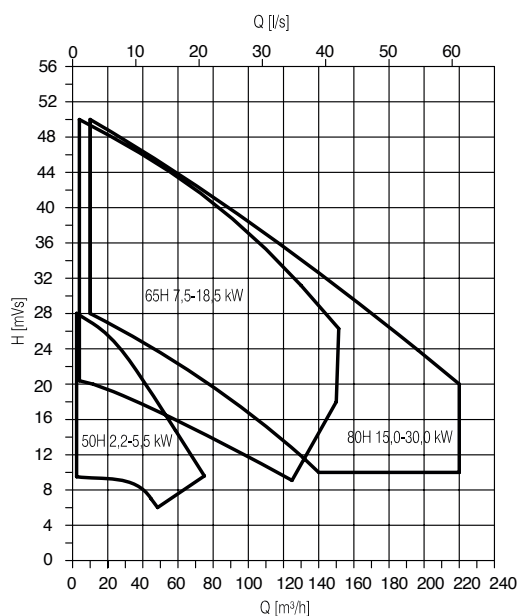
**Engineered to last**

## DG H

### Performance and specifications: (valid in water)

Article no.	Type	Motor size	Max. current absorbed	Tank opening	Weight
		[kW]	[Ampere]	Horiz. mounted LxW [mm]	
2302102	DG 50 H	2,2	4,6	650x400	40
2302103	DG 50 H	3,0	6,2	650x400	43
2302104	DG 50 H	4,0	8,4	700x400	55
2302105	DG 50 H	5,5	11,0	700x400	60
2302717	DG 65 H	7,5	14,5	750x500	80
2302711	DG 65 H	11,0	20,0	800x500	105
2302715	DG 65 H	15,0	27,5	850x500	140
2302718	DG 65 H	18,5	33,0	850x500	155
2302815	DG 80 H	15,0	27,5	950x650	185
2302818	DG 80 H	18,5	33,0	950x650	200
2302822	DG 80 H	22,0	39,0	950x650	254
2302830	DG 80 H	30,0	52,5	950x650	276

Motor: 3-phased AC motor, 50 Hz, voltage: 400V 50Hz, 3000 rpm.  
Different motor specifications available.



### Materials:

Motor casing, pump casing and impeller: Cast iron Aisi A48-40B  
Knife system: Hardened steel

### For correct sizing the following information is required:

- purpose of application
- type of liquid
- length of pipe
- total head
- pressure/performance required
- dry matter content
- diameter of pipe

We reserve the right to make technical alterations.

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**Head office:**  
Landia A/S  
Industrivej 2  
DK-6940 Lem St.  
Tel.: +45 97 34 12 44  
Fax: +45 97 34 16 98  
e-mail: info@landia.dk  
www.LandiaWorld.com



**UK-Branch:**  
Landia (UK) Ltd.  
Waymills Industrial Estate  
Whitchurch, Shropshire SY13 1TT  
Tel.: 01948 661 200  
Fax: 01948 661 201  
Email: info@landia.co.uk  
www.landia.co.uk

# Slurry Pump MPTK for dry installation

Versatile dry installed slurry pump with motors ranging from 0.55 – 30 kW. The MPTK pump is for in-line installation outdoor or in a dry pit. As an example of application is "Straight Flush Systems".

The MPTK Slurry Pump can handle slurry with a high concentration of solids and the unique pump design further improves the capability of pumping slurry containing straw.

Abrasive liquids, such as slurry with sand, has led to the development of optional pump components in hardened cast iron which significantly increases the life time.

We offer individual pump solutions with a choice of different flanges and connections for steel as well as PVC pipes.



- 14 motor sizes from 0.55 – 30 kW
- 50, 65, 80, 105 or 150 mm pump discharge
- Capacity up to approximately 475 m<sup>3</sup>/hour

#### Special features:

- Chopping knives available as an option
- Available with hardened pump components – for abrasive slurry
- Close coupled, compact design



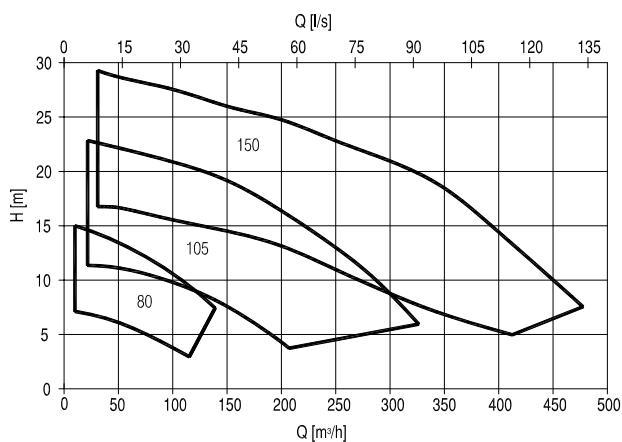
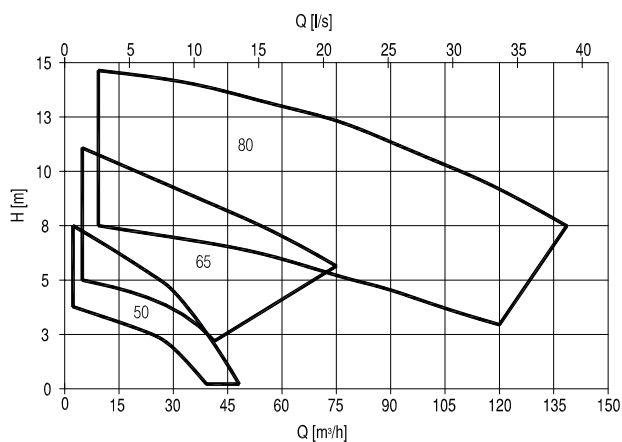
## MPTK medium pressure

### ■ Performance and specifications: (valid in water)

Article no. (400V)	Type	Motor size kW	Consumption at 3x400V amp	Dimensions (mm) H x W x L	Weight kg
2504196	MPTK 50	0,55	1,6	248x294x360	25
2504197	MPTK 50	0,75	2,1	248x294x360	25
2504798	MPTK 65	1,1	2,6	371x320x465	45
2504701	MPTK 65	1,5	3,4	371x320x490	50
2504702	MPTK 65	2,2	5,0	371x320x495	55
2504803	MPTK 80	3,0	6,7	432x369x575	80
2504804	MPTK 80	4,0	8,8	432x369x610	85
2504805	MPTK 80	5,5	11,0	432x369x635	100
2504907	MPTK 105	7,5	15,0	534x457x670	140
2504911	MPTK 105	11,0	21,5	534x457x720	160
2504915	MPTK 105	15,0	29,0	534x457x730	200
2504918	MPTK 105	18,5	35,0	534x457x730	210
2504618	MPTK 150	18,5	35,0	740x580x775	270
2504622	MPTK 150	22,0	43,0	740x580x870	330
2504630	MPTK 150	30,0	57,0	740x580x870	360

Motor: 3-phased AC motor, 50 Hz, voltage: 400V, 1500 rpm.

Different motors specifications available.



### ■ Materials:

Motor casing, pump casing and impeller:  
Knife system:

Cast iron AISI A48-40B  
Hardened steel

### ■ The following information should be given with each inquiry:

- purpose of application
- type of liquid
- length of pipe
- total head
- pressure/performance required
- dry matter content
- diameter of pipe

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**Head office:**  
Landia A/S  
Industrivej 2  
DK-6940 Lem St.  
Tel.: +45 97 34 12 44  
Fax: +45 97 34 16 98  
e-mail: info@landia.dk  
www.LandiaWorld.com



**UK-Branch:**  
Landia (UK) Ltd.  
Waymills Industrial Estate  
Whitchurch, Shropshire SY13 1TT  
Tel.: 01948 661 200  
Fax: 01948 661 201  
Email: info@landia.co.uk  
www.landia.co.uk

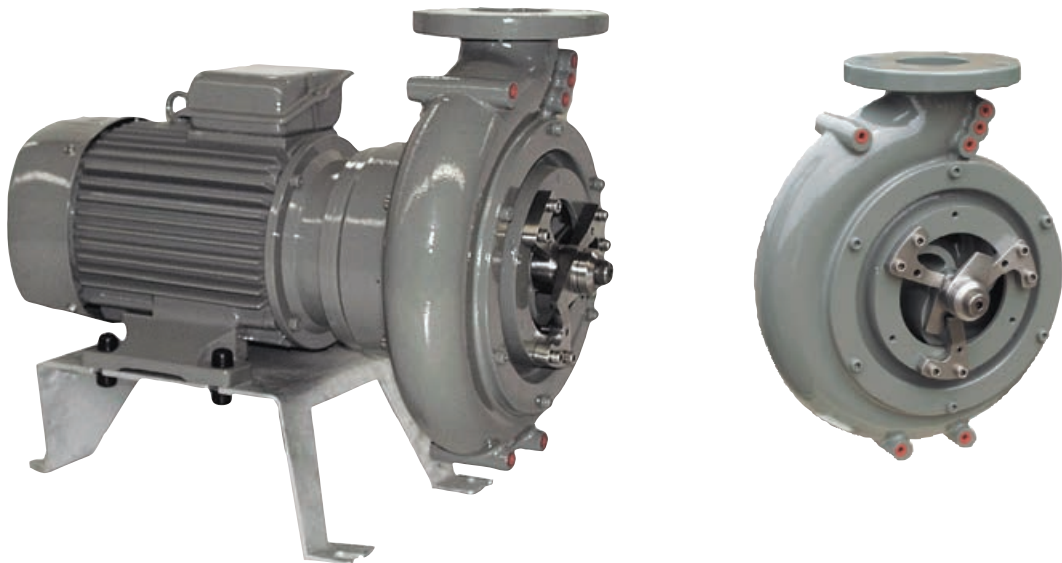
# High Pressure Slurry Pump MPTK for dry installation

Dry installed high pressure slurry pump with motors ranging from 2.2 – 30 kW. The MPTK H pump is for in-line installation outdoor or in a dry pit

The MPTK H Slurry Pump can handle slurry with a high concentration of solids and is designed for pumping these at pressures up to 5 bar and over distances of up to several kilometers – often coupled in series with a DG submersible pump working as a booster pump.

Abrasive liquids, such as slurry with sand, has led to the development of optional pump components in hardened cast iron which significantly increases the life time.

We offer individual pump solutions with a choice of different flanges and connections for steel as well as PVC pipes.



- 10 motor sizes from 2.2 – 30 kW
- 50, 65, or 80 mm pump discharge
- Capacity up to approximately 220 m<sup>3</sup>/hour

#### Special features:

- Chopping knives available as an option
- Available with hardened pump components – for abrasive slurry
- Close coupled, compact design

**Engineered to last**

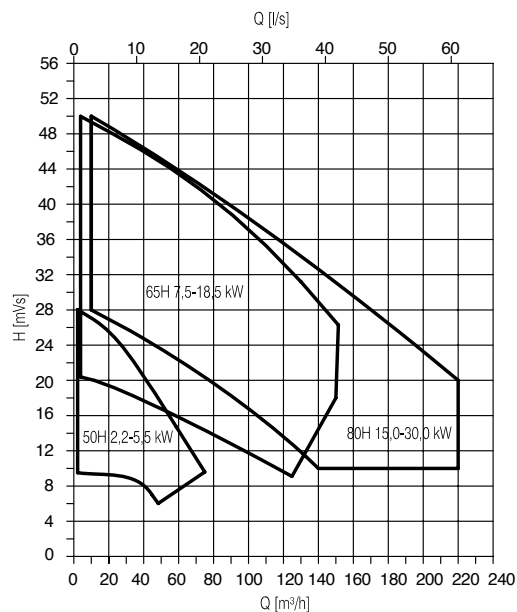
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# MPTK High Pressure

## ■ Performance and specifications: (valid in water)

Article no.	Type	Motor size [kW]	Max. current absorbed [Ampere]	Tank opening Horiz. mounted LxW [mm]	Weight [Kg]
2502102	MPTK 50 H	2,2	4,6	650x400	40
2502103	MPTK 50 H	3,0	6,2	650x400	43
2502104	MPTK 50 H	4,0	8,4	700x400	55
2502105	MPTK 50 H	5,5	11,0	700x400	60
2502707	MPTK 65 H	7,5	15,0	750x500	80
2502711	MPTK 65 H	11,0	20,5	800x500	105
2502715	MPTK 65 H	15,0	27,5	850x500	140
2502718	MPTK 65 H	18,5	33,0	850x500	155
2502815	MPTK 80 H	15,0	27,5	950x650	180
2502818	MPTK 80 H	18,5	33,0	950x650	200
2502822	MPTK 80 H	22,0	39,0	950x650	250
2502830	MPTK 80 H	30,0	52,5	950x650	280

Motor: 3-phased AC motor, 50 Hz, voltage: 400V, 3000 rpm.  
Different motor specifications available



## ■ Materials:

Motor casing, pump casing and impeller: Cast iron AISI A48-40B  
Knife system: Hardened steel

## ■ The following information should be given with each inquiry:

- purpose of application
- type of liquid
- length of pipe
- total head
- pressure/performance required
- dry matter content
- diameter of pipe

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**Head office:**  
Landia A/S  
Industrivej 2  
DK-6940 Lem St.  
Tel.: +45 97 34 12 44  
Fax: +45 97 34 16 98  
e-mail: info@landia.dk  
www.LandiaWorld.com



**UK-Branch:**  
Landia (UK) Ltd.  
Waymills Industrial Estate  
Whitchurch, Shropshire SY13 1TT  
Tel.: 01948 661 200  
Fax: 01948 661 201  
Email: info@landia.co.uk  
www.landia.co.uk