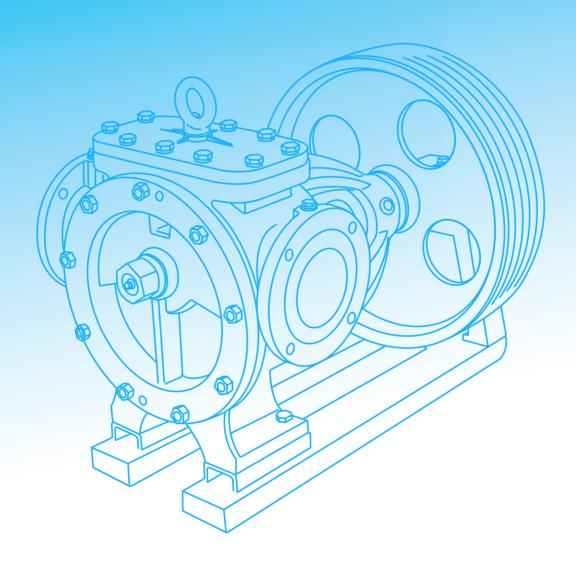


### **FLELDS OF APPLICATION**

- » Paint and lacquer Industry e.g. solvents, binders, pigmented goods, textile dye.
- » Sugar Industry e.g. molasses, syrup.
- » Petro chemical Industry e.g. asphalt, bitumen, liquid polymerlcs, emollients, Solvents, emulsions, glue filling paste.
- » Oil industry e.g. oil, oil products, grease, additives.
- » Chemical Industry e.g. bases, weak acids, soap, soya oil, freon.
- » Paper Industry e.g. sulphate soap, tall oil, water glass.
- » Fish Industry e.g. fish oil, press water, solubles.
- » Food Industry e.g. chocolate, yeast mayonnaise, brine, liquo, rice vinegar, egg yolk.





Rotan industrial pumps internal tooth gear pumps have been manufactured in Denmark by Myhrwold & Rasmussen A/S since 1921. From the beginning this company has devoted the main part of its resources to the development and production of these pumps. The specialization resulting from these efforts means that mass-produced Rotan pumps are now available in many sizes, designs and with many material combinations, meeting the requirements of almost all liquids.

#### **General information**

	SI Units	Other Units	British Units	American Units
Max. capacity	170 m³/h 0,047 m³/s	2800 I/min	625 IGPM	750 USGPM
Max. differential pressure HD 101 - HD 201	10 bar ~ 1000 kPa	10 kp/cm²	140 PSI	140 PSI
Max. priming vacuum	0,6 bar ~ 60 kPa	0,6 kp/cm <sup>2</sup>	450 mm Hg ~ 18 inches Hg	450 mm Hg ~ 18 inches Hg
Max. vacuum during operation	0,9 bar ~ 90 kPa	0,9 kp/cm²	680 mm Hg ~ 27 inches Hg	680 mm Hg ~ 27 inches Hg
Max. viscosity	7,5 x 10 <sup>-2</sup> m²/s	75.000 cSt.	310.000 R1	350.000 SSU
Max. temperature: Standard features Special tolerances Special tolerances + water - cooling	150 °C 200 °C 300 °C	150 °C 200 °C 300 °C	300 ºF 400 ºF 570 ºF	300 ºF 400 ºF 570 ºF
Max. heating jacket pressure: Water/oil Steam	6 bar ~ 600 kPa 4 bar ~ 400 kPa	6 kp/cm² 4 kp/cm²	87 PSI 58 PSI	87 PSI 58 PSI

## Fields of application



Paint and lacquer industry e.g. solvents, binders, pigmented goods, textile dye



Sugar industry e.g. molasses, syrup



Petro chemical industry e.g. asphalt, bitumen, liquid polymerics, emollients, solvents, emulsions, glue filling paste.



e.g. oil, oil products, grease, additives.



e.g. bases, weak acids, soap, soya oil, freon.



Paper industry
e.g. sulphate soap, tall oil,
water glass.

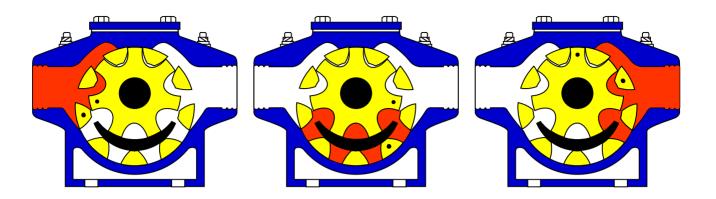


**Fish industry** e.g. fish oil, press water, solubles.



Food industry
e.g. chocolate, yeast
mayonnaise, brine, liquo
rice, vinegar, egg yolk.





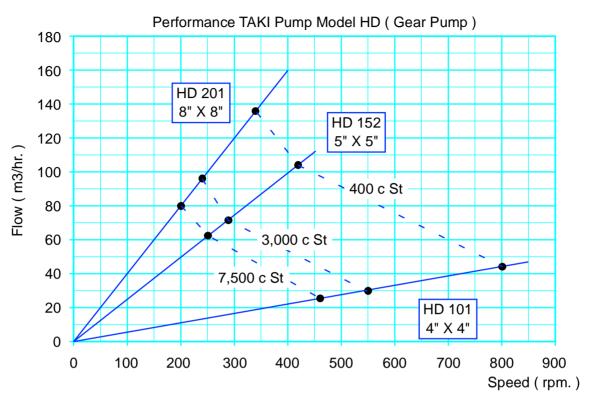
- I Pumps difficult liquids
  - Viscosities up to 75.000 cSt.
  - Non-lubricating as well as lubricating liquids
  - With contents of abrasives
- Self priming with large suction capability
  - Self priming up to a vacuum of 60 kPa (18 inches Hg)
  - Max. operating vacuum of 90 kPa (27 inches Hg)
- Reversible pumping function
  - Efficient two way pumping which allows emptying of the discharge pipe after the pumping operation
- I Gentle liquid handling
  - Does not stir the liquid
  - No pressure pulsations
- Long life
  - Robust, uncomplicated construction with outrigger ball bearing support.
  - Only two rotating parts and one shaft seal.
  - Low rotating speed.
- Capable of short time dry operation.
- Can be fitted with relief valve.
  - Ensures that no damage occurs on pump or pipes if the pipe line is blocked.
- Easy to inspect and maintain.
- I Front cover and bearing support can easily be dismantled for inspection of rotating parts without dismounting pipe connections or power unit.
- Axial readjustment of rotor and shaft.

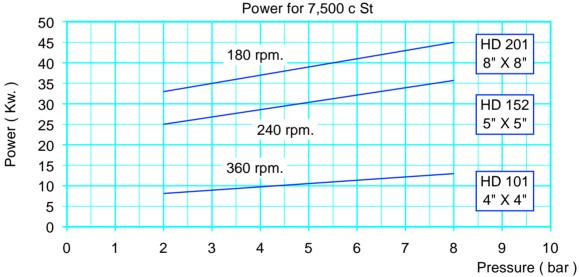
**The TAKI HD** type pump is a gear pump with an internal idler gear meshing a main power rotor. This construction provides more favourable flow conditions than those obtained in other types of gear pump. The direction of liquid flow is changed only slightly through the pump. Thus large selfpriming ability and gentle liquid handling are achieved, and also high viscous liquids may be pumped.

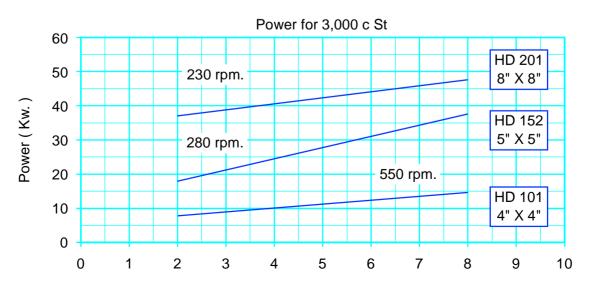


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				٥С			cSt			P <sub>H</sub>			, e	٩b	rasi	ive						on			
Examples of liquids (Extract from M & R's liquid list)			- 150	150- 200	200- 300	- 2500	2500- 7500	0005/-005/	Lubricating	Not lubricating	3,5 - 6	8-9	8-14	Kubber aggressive	LIQE	moderately	strongly		C	OD	E		Configuration		
Drimore	lve aqueous solution	e			0			0	0	+	$\dashv$	0	$\dashv$	ol	$^{d}$	+	5	히		1	М	1	1	Α	
Primers, Iye, aqueous solutions Paint with pigments and/or aromates				ŏ			b	┵	┪	히	ŏ		ŏ				히		1	М	1	В	2		
Paint with pigments and/or aromates  Paint with or without pigments, sugar syrup, molasses				ŏ			6	0	+	러	ŏ	+	ŏĦ	$\exists$	_	ăl	ŏl		1	M	2	2	A		
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Molasses					Ō			Ō	Ō	_	र्व	Ō	一	र्व	_	_	δĺ	ਗੋ		1	М	В	2	В	Х
Colourles	ss lacquer, synthetic r	esin, animal and veg	etable fat and oil		0			О	o		히			_	ठ	1	٦t	_		1	U	1	1	Α	
Oil, oil sl					0			0	0	T	이			이	1	1	5			1	U	2	2	Α	
Asphalt,					0			0	0	T	Ó			<del>o</del> l		<b>5</b> (	5			1	U	2	2	В	DK
Fuel oil					0			0			이			이		(	5			1	U	2	В	1	
Solvents	, pure animal and veg	etable fat and oil			0			0	0		0	0					2			1	U	3	3	В	
Heat tran	·				0	0	0	0	0 (	ा		0		o	ol		2			1	U	3	3	В	KT
Fat, pher	nol, paraffin wax				0			0	0	T	이	0		이	ा ।	3 (	5			1	U	3	3	В	DK
Petrol, al	cohol, gas oil, diesel	oil			0			0		T		0		0		(	7			1	U	3	В	1	
LPG, fred	on, frigen, solvents				0			0		T		0		0	0	3 (	기			1	U	3	В	2	
Paint with	h pigments, molasses				0			0	0	T	이	0		이		7	T	이	0	1	U	4	2	В	
Paint witl	n pigments, molasses				0			0	0		0	0		0		2		- 1	0	1	U	4	В	2	
Toluol, te	xtile dye				0			0				0		이		3 (	7	ण		2	М	2	2	В	
Vinegar,	weak acids, mustard				0			0	0			0		0			סן			2	U	3	3	В	
Vinegar,	weak acids, wine, spi	rits			0			0				0		0		) (	2			2	U	3	В	1	
Textile dy	/e				0			0				0		0		2		0		2	U	4	2	В	
Plastic e	mulsion, vegetable oil	, sulphate soap, mus	tard		0			0	0		0	0	0	0	0 [	) (	<u>)  </u>			3	U	3	3	В	T
Standard	CASING 01	COVER 02	ROTOR 04	IDLE 05				S	HAF 20	Т			PIN 21				:OE	DE rials	,						
JIS	FC 25	FC 25	FC 25	FC 2	25			S	CM 4	4		(	SCM	14		Ca	1 st	Iron	١						
JIS	BC 6	BC 6	BC 6	ВС	6			SI	JS 30	)4		S	US :	304		В	2 ron				bearings				
JIS	SCS 13	SCS 13	SCS 13	scs	13			SI	JS 30	)4		S	US:	304		Sta		ess	;	Main Parts	Lubrication of	Idler bearing	Main bearing	t seal	
	Special design:															Sį	S	ial		Mair	Lubr	Idler	Mair	Shaft	
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Lubricat	ed —							M																	
Not lubr	icated———						_	U_													_				
D-11	allan kanada a							_	ı																
Ball or r	oller bearing ———— cast iron							В 1																	
Slide be	earing of bronze -							_														_			
l ondo be								3 4																	
	Ceramic							~ <b>-</b>	ı																
Packing	cord, graphite impre	gnated asbestos or c	otton —					Α-	1																
Packing	cord, teflon-impregna	ated <del></del>					_	В																	
	ical shaft seal, seal ri c rubber bellows, stai		С,																						
	arts of phosphor-bronz							1																_	
Mechan	ical shaft seal, seal ri	ngs of carbon/cerami	c,					_																	
viton O- Shaft se	rings, spring and other eal of special type —	er parts of stainless s	teel —					2 S_																	
Heating	jacket							D _	l																
Water-c	jacket ooled stuffing box						_	K																	
Special Special	ooled stuffing box — features — tolerances —							S T	<u> </u>																
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Two-wa	y by-pass valve ——																								
Idler be	aring arrangement —							×_	I																

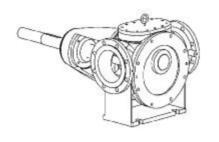


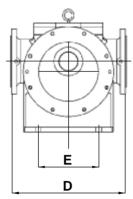


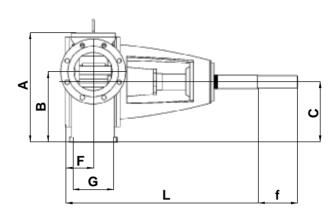








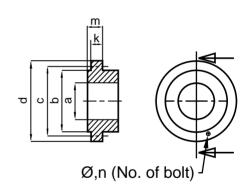




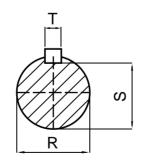
## Dimension in mm.

PUMP Model	HP.	A	В	С	D	Е	F	G	L	<b>f</b> extend length for bearing support
HD 101	20	315	185	160	360	160	85	110	530	115
HD 125	50	560	342.5	287	552	240	160	135	790	190
HD 201	75	570	369	315	600	315	210	200	1017	205

Bore.A	b	С	d	Ø	k	m	n	bolt
100	155	180.0	220	3/4"	2.5	22.5	8	M18
125	185	222.5	260	11/16"	2.5	28	8	M16
200	265	295.0	340	15/16"	5	30	8	M22



PUMP Model	R	S	Т
HD 101	32	27	10
HD 125	45	40	12
HD 201	70	64	16



# **TAKI PUMP**