

HYDROMAN
(A Tobee Brand)

Tobee[®]

**THY Series
Hydraulic Dredge pump**





Research and technology

An acknowledged leader in the Industrial and Building sectors, Hydroman Pump fields a varied team of experts able to answer inquiries of all types and to study the most suitable and competitive tailor-made solution for every new application.

Furthermore, our technical and commercial department is always at your complete disposal to offer prompt assistance, including full availability to supply you the best consultancy directly on site, speedy spare parts supply and constant attention to every aspect of aftersales service.

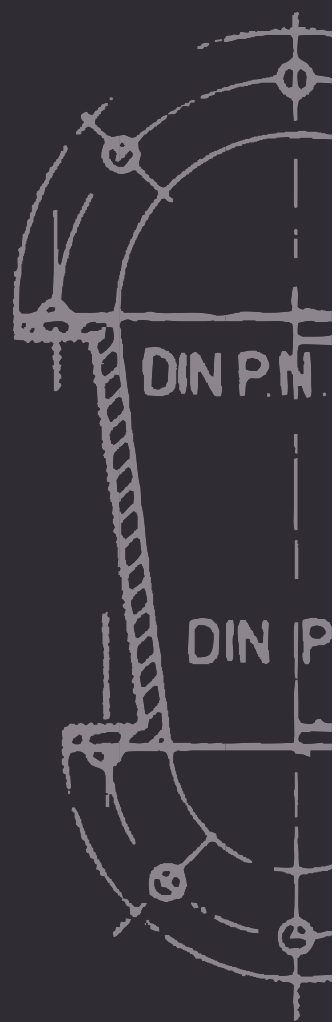
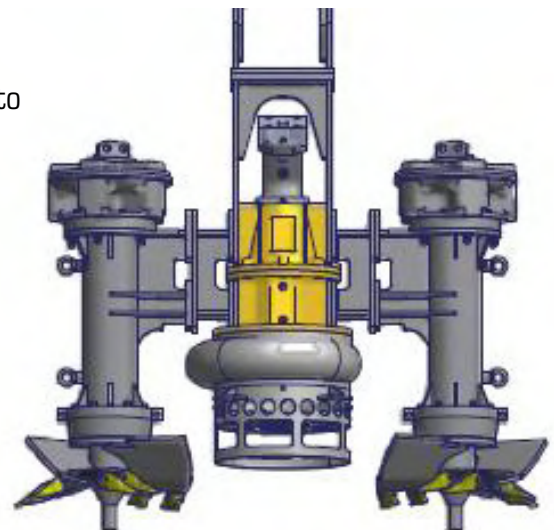
History

Hydroman™ is a Tobee brand was established in 2008 as manufacturer submersible pumps with agitator for heavy duty specifically designed for the treatment of slurry with a high content of abrasivesolids.

Thanks to the passion and brilliance of its team of technicians and engineers, Hydroman Pump has proved to be not just a simple alternative to conventional products but also a certainty for clients operating in extremely specialised sectors who must face and solve very difficult applications.

Originally applied to a niche market, mainly acting in dredging and sand and gravel extraction and treatment, Hydroman Pump has subsequently expanded its presence in a wide range of fields.

The excellent world-wide reputation of the trademark for many years has led to the widening of the range of products offered to the market.





Hydraulic Pumps

THY 24



- THY 35
- THY 50
- THY 50 HC
- THY 85
- THY 85 HC
- THY 175
- THY 220
- THY 300
- THY 400



Hydraulic pump specifications

Hydraulic motor specifications

Type	Delivery DN/PN	Capacity (m³/h)	Head (m)	RPM	Power		Solids handling (ø mm)	Displacement (c.c.)	Pressure min/max (Bar)	Oil Capacity min/max (l/min)
					HP min / max	kW min/max				
THY 24	100	60 / 80	18 / 28	1500 / 2000	14 / 26	10 / 19	25	20	210 / 300	30 / 40

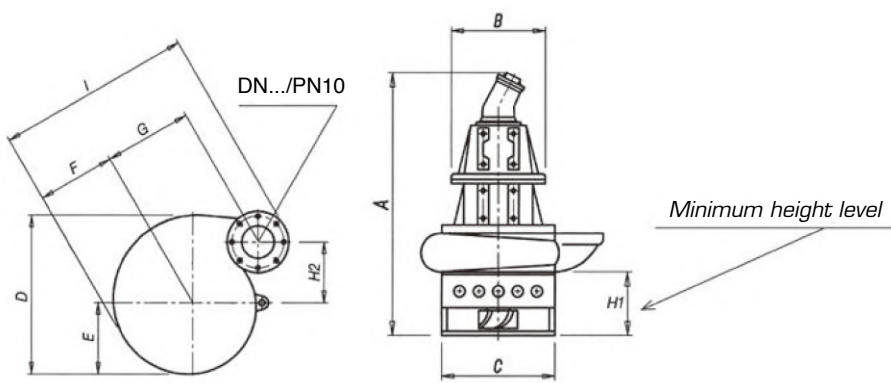
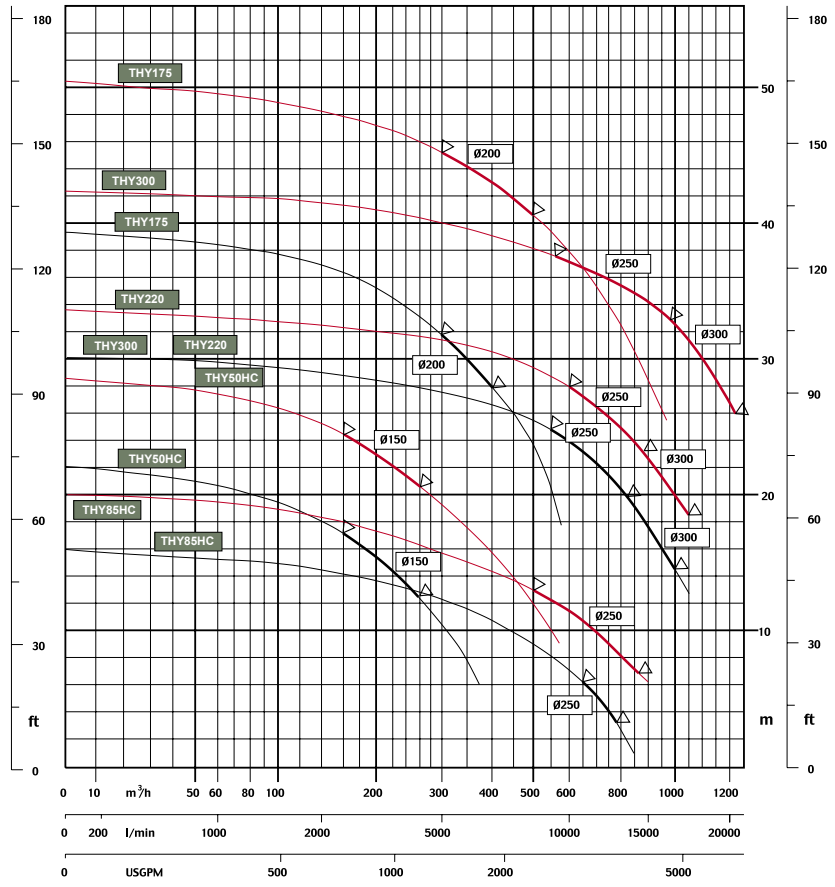
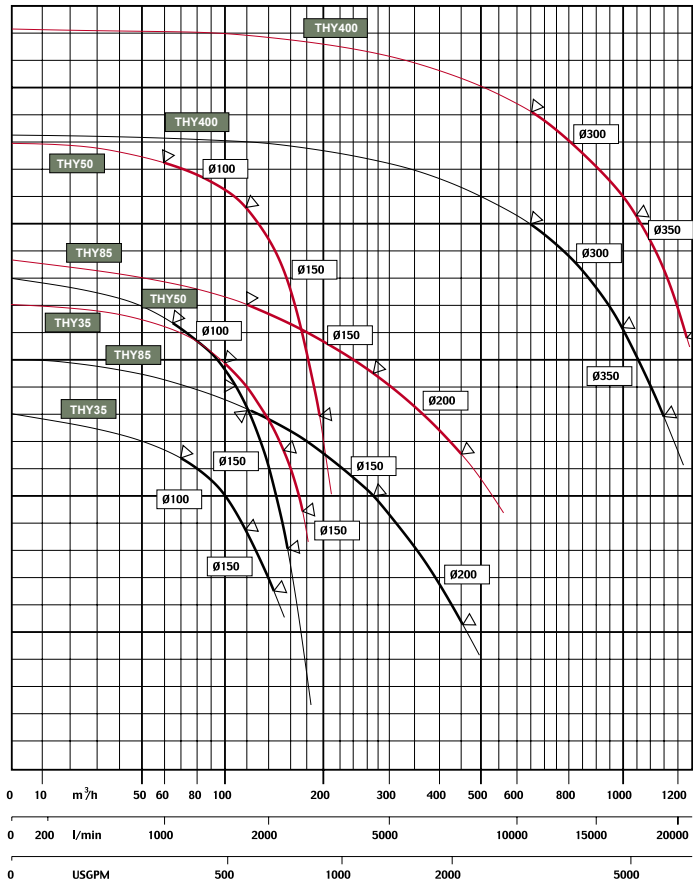
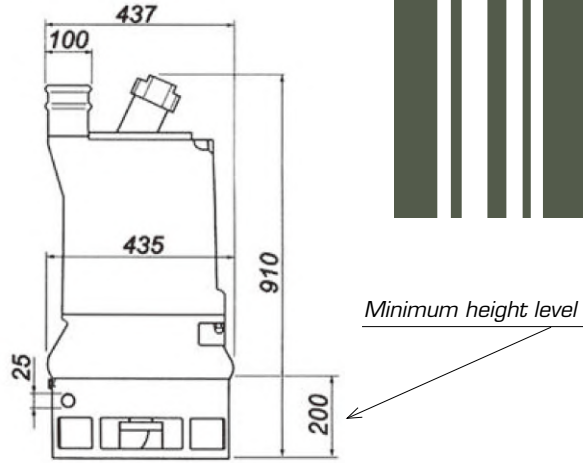
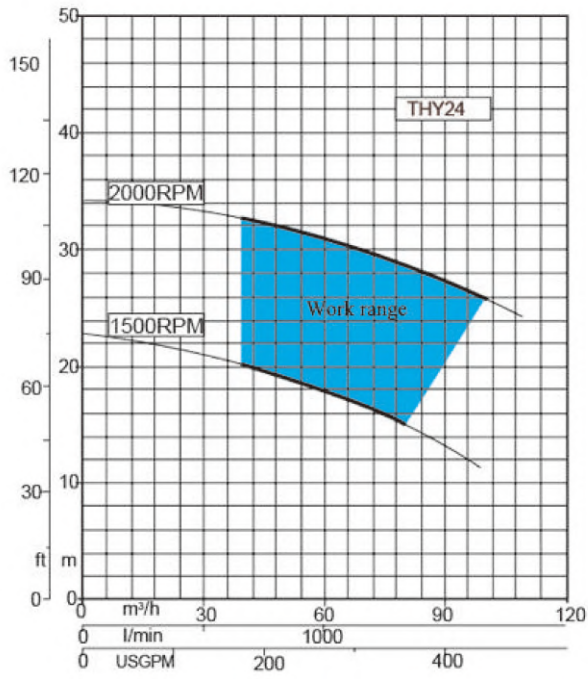
Hydraulic pump specifications

Hydraulic motor specifications

Type	Delivery DN/PN	Capacity (m³/h)	Head (m)	RPM	Power		Solids handling (ø mm)	Displacement (c.c.)	Pressure min/max (Bar)	Oil Capacity min/max (l/min)
					HP min / max	kW min/max				
THY 35A	100 / 10	100 / 120	20 / 28	980 / 1180	25 / 35	18 / 25	35	55	210 / 250	54 / 65
THY 35B	150 / 10	140 / 170	14 / 20		35 / 50	25 / 37	35	75	210 / 250	74 / 89
THY 50A	100 / 10	90 / 108	30 / 42	980 / 1180	35 / 50	25 / 37	35	75	210 / 250	74 / 89
THY 50B	150 / 10	140 / 170	22 / 32		35 / 50	25 / 37	60	75	210 / 250	74 / 89
THY 50HC	150 / 10	210 / 250	15 / 21	980 / 1180	35 / 50	25 / 37	60	75	210 / 250	74 / 89
THY 85A	150 / 10	200 / 240	22 / 30	980 / 1180	60 / 85	44 / 62	60	108	250 / 300	106 / 130
THY 85B	200 / 10	350 / 420	16 / 23		60 / 85	44 / 62	90	108	250 / 300	106 / 130
THY 85HC	250 / 10	720 / 860	5 / 7	980 / 1180	60 / 85	44 / 62	90	108	250 / 300	106 / 130
THY 175A	200 / 10	350 / 420	30 / 43	750 / 900	117 / 175	75 / 128	60	335	210 / 260	252 / 302
THY 220A	250 / 10	720 / 780	22 / 26	600 / 650	150 / 220	110 / 160	120	500	230 / 300	300 / 325
THY 220B	300 / 10	900 / 975	18 / 21		150 / 220	110 / 160	120	500	230 / 350	300 / 375
THY 300A	250 / 10	720 / 900	22 / 34	600 / 750	150 / 292	110 / 214	120	500	230 / 350	300 / 375
THY 300B	300 / 10	900 / 1200	18 / 28		150 / 292	110 / 214	120	710	270 / 300	535 / 605
THY 400A	300 / 10	950 / 1000	34 / 42	750 / 850	320 / 400	239 / 295	120	710	270 / 300	535 / 605
THY 400B	350 / 10	1100 / 1200	28 / 34		320 / 400	239 / 295	120	710	270 / 300	535 / 605

Dimensions

Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H1 (mm)	H2 (mm)	I (mm)	Weight Kg
THY 35A/B	1210	420	540	667	323	327	380	270	145	818	500 / 510
THY 50A/B	1330	460	600	774	363	374	418	270	298	902	600 / 610
THY 50HC	1425	460	540	736	334	350	412	270	282	902	700
THY 85A/B	1390	460	548	747	334	362	428	290	197	933	700 / 730
THY 85HC	1470	460	548	1020	449	478	485	326	340	1165	1000
THY 175A	1895	640	760	985	450	535	545	400	400	1250	1800
THY 220A/B	2400	640	1015	1357	576	652	750	470	453	1600	3500 / 3550
THY 300A/B										1600	3500 / 3550
THY 400A/B	2600	640	1015	1357	576	652	750	470	453	1600	3550 / 3600

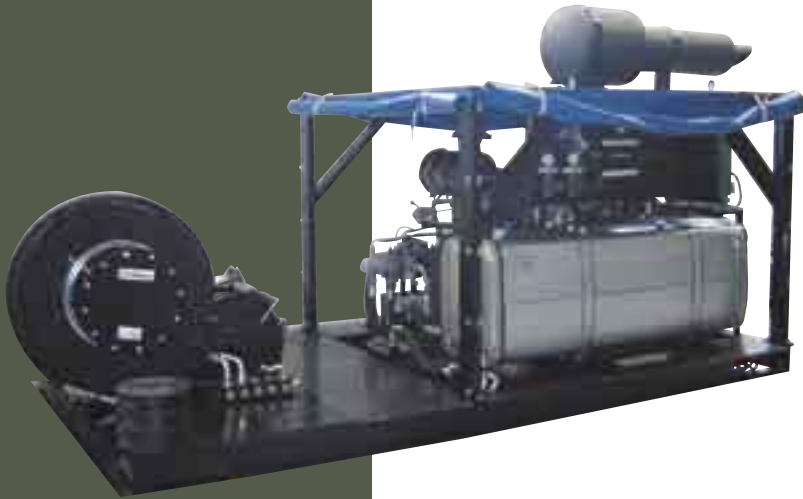


Hydraulic Power Pack (Variable flow)

Hydroman hydraulic power pack, suitably sized for the pumps to be driven, can also be sized to drive hoist and winches, auxiliary services.

Components: Base plate, drive (diesel engine/electric motor), variable flow oil pumps, oil reservoir, control box, accessories.

Remote control version: on request.



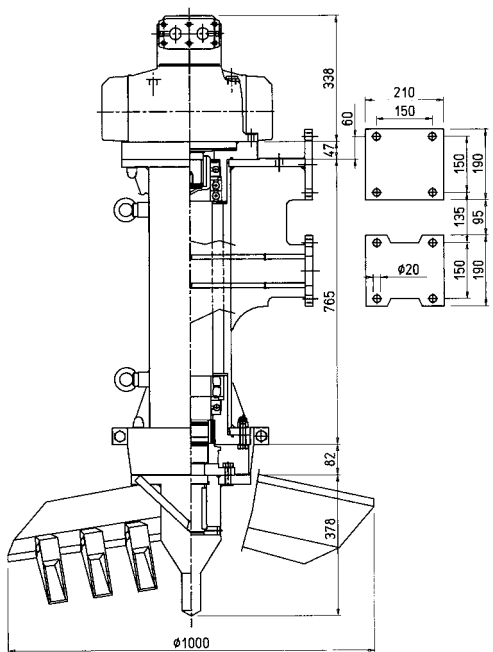
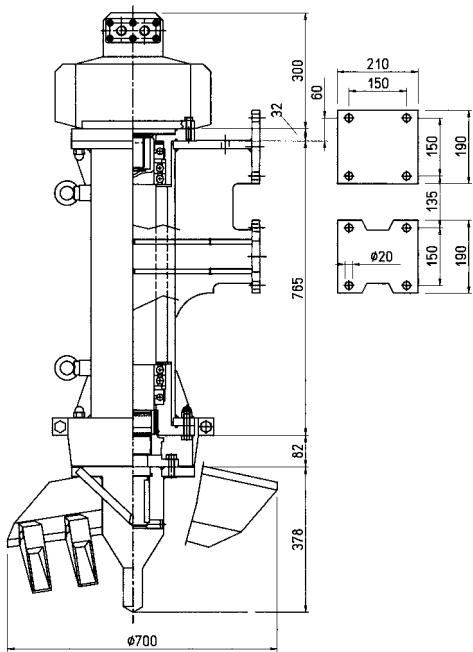
Pump model	Oil capacity (l / min.)	Pressure max (bar)	Power required (Kw / Hp)	Electric motor	Diesel engine
THY24	0÷40	300	24 / 33	HEP024	HDP024
THY35	0÷65	250	33 / 45	HEP035	HDP035
THY35 + 1 ExPro20	0÷65+0÷35	250 / 250	51 / 69	HEP035E12	HDP035E12
THY35 + 2 ExPro20	0÷65+0÷70	250 / 250	68 / 93	HEP035E22	HDP035E22
THY50 - 50 HC	0÷89	250	45 / 62	HEP050	HDP050
THY50 + 1 ExPro20	0÷89+0÷35	250 / 250	63 / 86	HEP050E12	HDP050E12
THY50 + 2 ExPro20	0÷89+0÷70	250 / 250	81 / 110	HEP050E22	HDP050E22
THY85 - 85 HC	0÷130	300	79 / 108	HEP085	HDP085
THY85 + 1 ExPro20	0÷130+0÷35	300 / 250	97 / 132	HEP085E12	HDP085E12
THY85 + 2 ExPro20	0÷130+0÷70	300 / 250	115 / 156	HEP085E22	HDP085E22
HY85 / 160				*	*
HY85 / 160 + 1ExPro20				*	*
HY85 / 160 + 2ExPro20				*	*
THY175					
THY175 + 1 ExPro35					
THY175 + 2 ExPro35					
THY220				*	*
THY220 + 1 ExPro35				*	*
THY220 + 2 ExPro35	0÷325+0÷110	300 / 250	255 / 346	*	HDP220E23
THY300	0÷375	300	268 / 364	*	HDP300
THY300 + 1 ExPro35				*	*
THY300 + 2 ExPro35	0÷375+0÷110	350 / 250	324 / 440	*	HDP300E23
THY400					*
THY400 + 1 ExPro35					*
THY400 + 2 ExPro35					*

* = on request

— = not available

Hydraulic Excavators

Technical specifications	Excavator ExPro 20	Excavator ExPro 35
Speed (RPM)	30 / 40 / 50	30 / 40 / 50
Power (cont. operation) (HP)	11 / 15 / 18	18 / 24 / 30
Power (inter. operation) (HP)	13 / 18 / 22	21 / 28 / 36
Capacity (l / min)	22 / 29 / 36	35 / 46 / 58
Pressure (cont. operation) (bar)	250	250
Pressure (inter. operation) (bar)	350	350
Torque (cont. operation) (kgm)	260 / 261 / 262	418 / 420 / 423
Torque (inter. operation) (kgm)	311 / 313 / 314	501 / 504 / 507
Weight (kg)	500	600



Hydroman ExPro

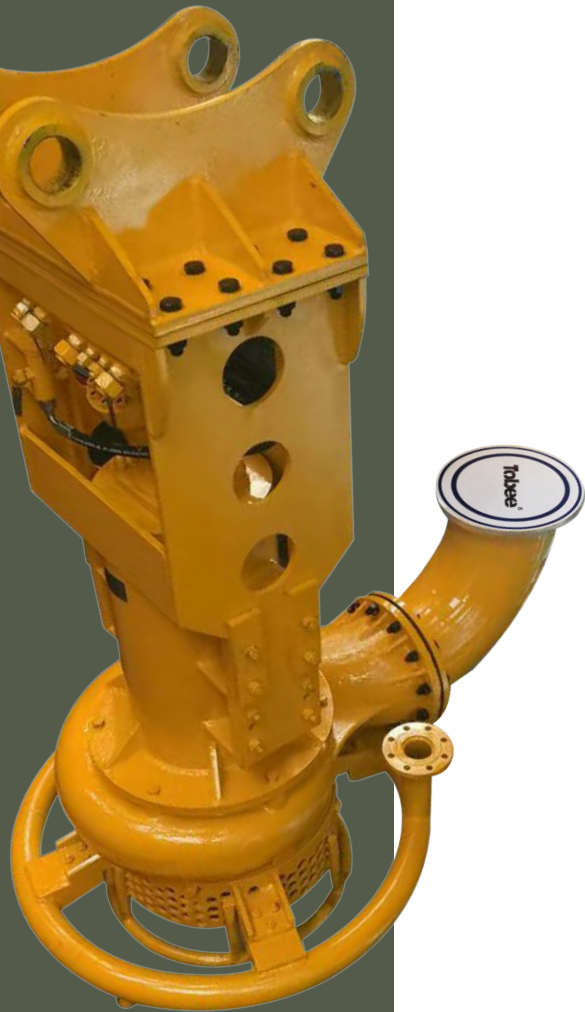
Other Supplier



VS



iShot™ Jet Ring System



iShot™ JET RING FRAME FOR ≤15kw

TECHNICAL SPECIFICATIONS

Water Capacity [m³/h]	20		
Pressure [bar]	6 – 7		
Water inlet diameter [mm]	32 (1" ¼)		
Nozzle diameter [mm]	7.3	6	5.2
Number of nozzles	4	6	8
Weight [kg]	15		
Material	S235 (A283C) Structural Steel		

iShot™ JET RING FRAME FOR 18.5 – 90kw

TECHNICAL SPECIFICATIONS

Water Capacity [m³/h]	60		
Pressure [bar]	6 – 7		
Water inlet diameter [mm]	DN80 PN10		
Nozzle diameter [mm]	15.6	12.8	11
Number of nozzles	4	6	8
Weight [kg]	15		
Material	S235 (A283C) Structural Steel		

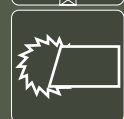
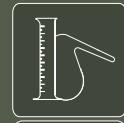
iShot™ JET RING FRAME FOR 110-315kw

TECHNICAL SPECIFICATIONS

Water Capacity [m³/h]	180		
Pressure [bar]	6 – 7		
Water inlet diameter [mm]	DN150 PN10		
Nozzle diameter [mm]	1"		
Number of nozzles	4		
Weight [kg]	320		
Material	S235 (A283C) Structural Steel		



Hydraulic Cutter

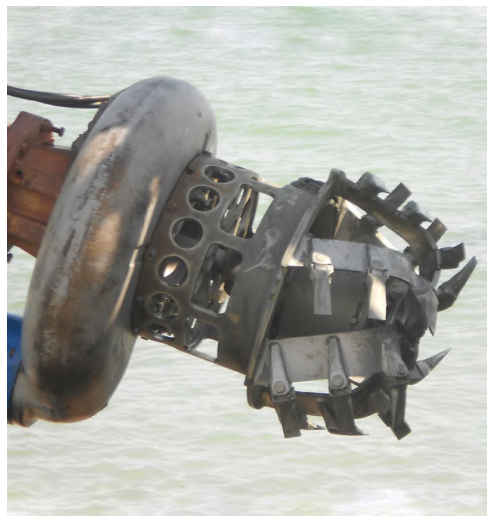


Hydroman MixPro

Other Suppliers



VS



Application range



Waste sludge handling / Tank clean out / Waste collection ponds / Thickener clean out / Barge unloading.



Waste collection pit / Ash sumps / Dredging waste ponds / Bark Collection pit / Clean up sumps.



Gold tailings reclamation / Ball mill sumps / Settling and collection ponds / Underground slimes collection ponds / Conveyor tunnel sumps / Tailings back-fill system / Preparation plant collection sumps / Coal tailings relocation / Open pit slimes removal / Crusher sumps / Grinding area sumps / Flotation area sumps / Removal of material of material from thickeners / Truck wash sumps.



Mill scale pits / Coke plant scale pit / Blast furnace slag pit / Water treatment sumps / Clean up sumps.



Dredging deep deposits (up to 120 m deep) / Recovery of sand not mined by primary dredge / Sands mining.



Trench clean out and back-fill in pipe-cable laying projects / Clean out caissons in construction / Transfer of bentonite slurry / Overburden removal / Silt from gravel washing.



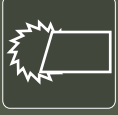
Removal of silt build up at marinas, harbours, dock loading facilities, etc. / Clean out of contaminated sludge collection ponds / Reclaiming beaches / River, lake and canal clean out.



Coke conveyor spillage sumps / Crude oil tank clean out / Sludge transfer / Settling-collection pits / Tailings recovery / Coke fines collection pit / Relocation of sand filled drilling rigs / Drilling mud barge unloading.



De-silting water intakes / Emergency dump pond / Ash decant sumps / Fly ash collection sump / Ash and waste collection pit / Scrubber sludge transfer / Lime collection pit / Coal wash-down sumps.



Pumping marble dust.

Application images



THY85B: Fire Brigade's operation in state of emergency.



THY35B: reflux water pumping in the marble cutting industry (Italy).



THY400: sand barge discharging (USA).



THY85B + 2 ExPro20: coupled on Fiat Hitachi FH 300 (Italy).



THY85B + 2 ExPro20: for sludge handling. (Italy).



THY85B + 2 ExPro20: fixed on excavator boom for sand extraction (UK).

THY24: mud removal from decanting basins (Italy).



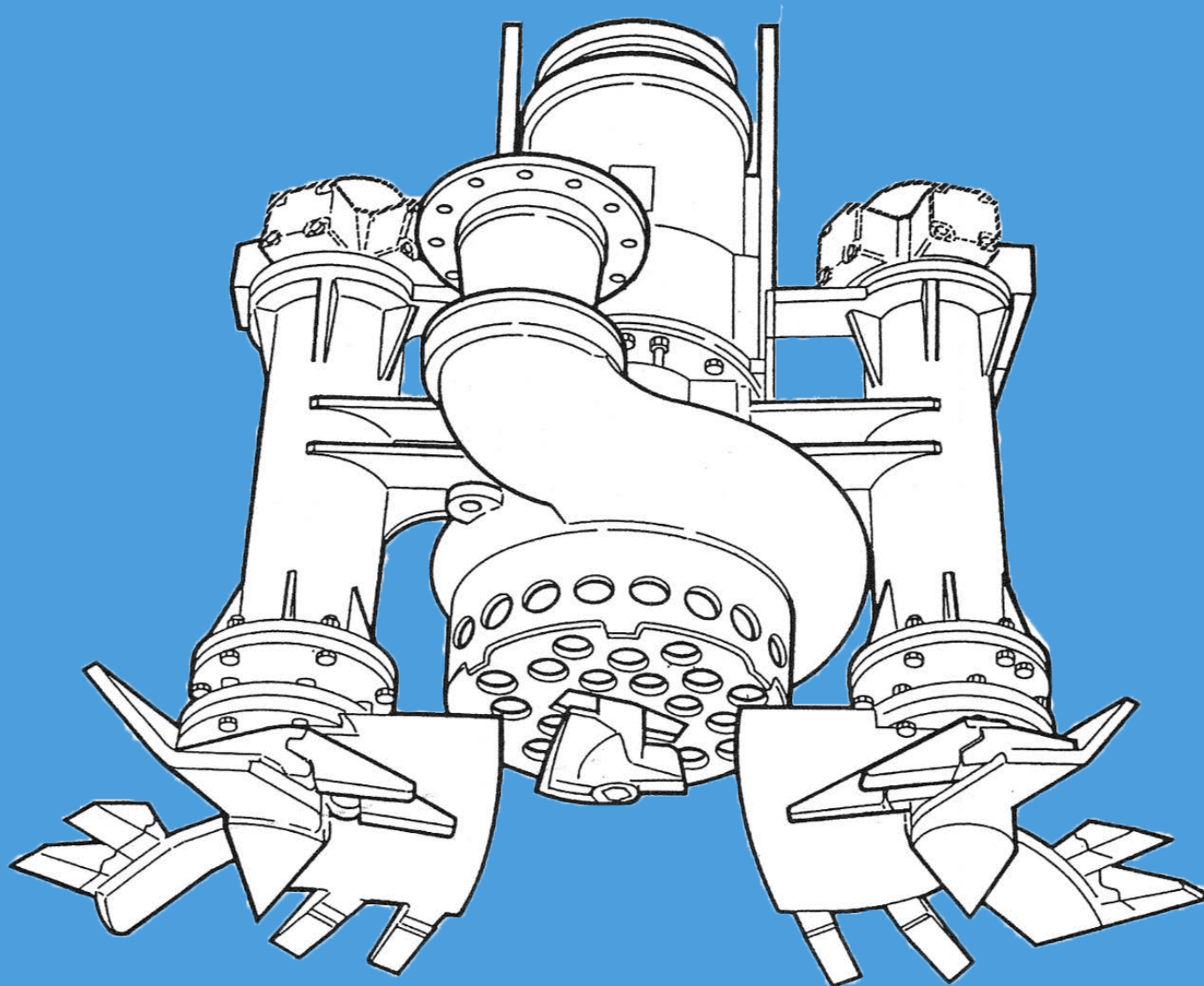
THY24: mud removal obtained from inert matter washing (Australia).



THY85A: canal dredging operation (Italy).



THY85A + 2 ExPro20: sea bed lowering at Gioiatauro Port (Italy).



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