FLYGT

Technical specification

Submersible pump N 3202, 50 Hz



Flygt

ITT Industries



N 3202

Product

Submersible pump for pumping clean water, surface water and waste water containing solids or long-fibred material.

Denomination

Product code	3202.180
	(High chromium) 3202.185
Installation	P, S, T, Z
Impeller characteristics	LT, MT, HT

Process data

Liquid temperature-standard	max +40 °C
Depth of immersion	max 20 m
The pH of the pumped liquid	5,5 -14
Liquid density	max. 1100 kg/m^3

Motor data

Frequency	50 Hz
Insulation class	H (+180 °C)
Voltage variation	
- continuously running	max ± 5%
- intermittent running	max ± 10%
Voltage imbalance between phases	max 2%
No. of starts/hour	max 30

Cable

Direct-on-line start

SUBCAB®	4G4+2x1,5 mm2
	4G6+2x1,5 mm2
	4G10+2x1,5 mm2
	4G16+2x1,5 mm2
	4G25+2x1,5 mm2
	4G35+2x1,5 mm2

Y/D start

SUBCAB®	7G2,5+2x1,5 mm2
	7G4+2x1,5 mm2
	7G6+2x1,5 mm2

Monitoring equipment

Thermal contacts opening temp.	140 °C
Leakage sensor in inspection chamber	FLS

Material

Impeller (.180)	Cast iron
Impeller (.185)	High chromium cast iron
Pump housing	Cast iron
Stator housing	Cast iron
Shaft	Stainless steel

O-rings

Alternative	Material
1	Nitrile rubber
2	Fluorinated rubber

Mechanical face seals

Alternative	Inner seal	Outer seal
1	Corrosion resistant tungsten carbide/ Corrosion resistant tungsten carbide	Corrosion resistant tungsten carbide/ Corrosion resistant tungsten carbide
2	Corrosion resistant tungsten carbide/ Corrosion resistant tungsten carbide	Silicon carbide/Silicon carbide

Surface Treatment

All cast parts are primed with a water-borne primer. The finishing coat is a high-solid two pack paint.

Weight

See dimensional drawing.

Option

3202.090	Ex. proof design
3202.095	(High chromium) Ex. proof design

Warm liquid version on request

Other cables

Accessories

Discharge connections, adapters, hose connections and other mechanical accessories.

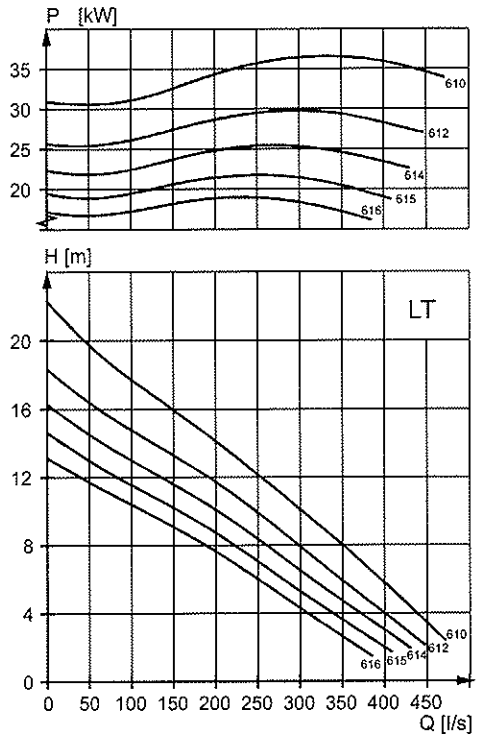
Electrical accessories such as pump controller, control panels, starters, monitoring relays, cables.

See separate booklet or www.flygt.com, for further information.

LT-Motor rating and performance curve

Curve/impeller No	Rated power, kW	Rated current, A	Starting current, A	Power factor cos φ	Ex proof version available	Installation				
						P	S	T	Z	
400 V, 50 Hz, 3 ~, 970 r/min										
615	22	43	238	0,84	•	•	•	•	•	
616	22	43	238	0,84	•	•	•	•	•	
400 V, 50 Hz, 3 ~, 970 r/min										
612	30	59	320	0,84	•	•	•	•	•	
614	30	59	320	0,84	•	•	•	•	•	
400 V, 50 Hz, 3 ~, 970 r/min										
610	37	71	410	0,84	•	•	•	•	•	

Y/D starting current is approximately 1/3 of D starting current.

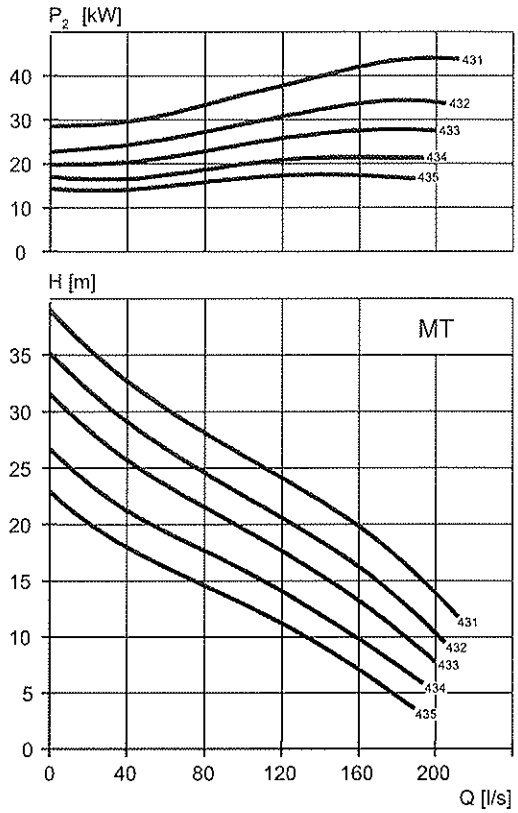


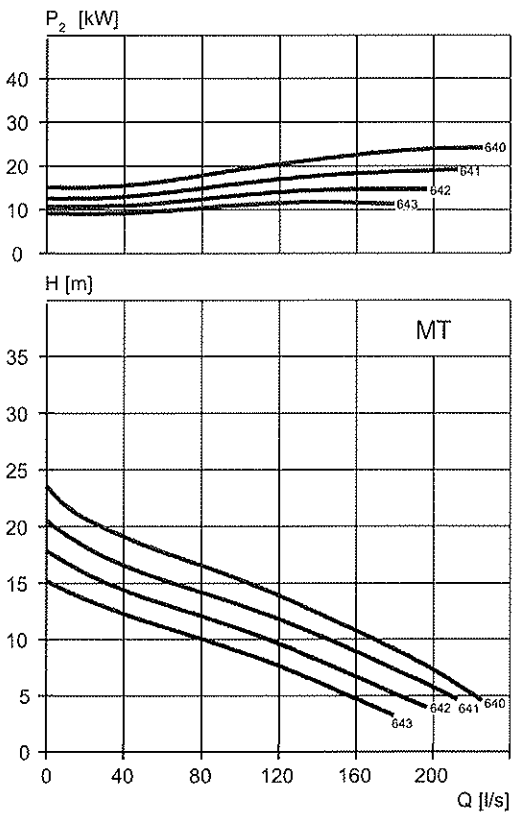
MT-Motor rating and performance curve

Curve/Impeller No	Rated power, kW	Rated current, A	Starting current, A	Power factor cos φ	Ex proof version available	Installation				
						P	S	T	Z	
400 V, 50 Hz, 3 ~, 970 r/min										
640	22	43	238	0,84	•	•	•	•	•	
641[1]	22	43	238	0,84	•	•	•	•	•	
642	22	43	238	0,84	•	•	•	•	•	
643[1]	22	43	238	0,84	•	•	•	•	•	
400 V, 50 Hz, 3 ~, 1475 r/min										
433	30	54	360	0,88	•	•	•	•	•	
434[1]	30	54	360	0,88	•	•	•	•	•	
435[1]	30	54	360	0,88	•	•	•	•	•	
400 V, 50 Hz, 3 ~, 970 r/min										
640	30	59	320	0,83	•	•	•	•	•	
641[1]	30	59	320	0,83	•	•	•	•	•	
642	30	59	320	0,83	•	•	•	•	•	
643[1]	30	59	320	0,83	•	•	•	•	•	
400 V, 50 Hz, 3 ~, 1475 r/min										
432[1]	37	66	460	0,88	•	•	•	•	•	
433	37	66	460	0,88	•	•	•	•	•	
434[1]	37	66	460	0,88	•	•	•	•	•	
435[1]	37	66	460	0,88	•	•	•	•	•	
400 V, 50 Hz, 3 ~, 970 r/min										
640	37	71	410	0,83	•	•	•	•	•	
641[1]	37	71	410	0,83	•	•	•	•	•	
642	37	71	410	0,83	•	•	•	•	•	
643[1]	37	71	410	0,83	•	•	•	•	•	
400 V, 50 Hz, 3 ~, 1475 r/min										
431	45	79	540	0,89	•	•	•	•	•	
432[1]	45	79	540	0,89	•	•	•	•	•	
433	45	79	540	0,89	•	•	•	•	•	
434[1]	45	79	540	0,89	•	•	•	•	•	
435[1]	45	79	540	0,89	•	•	•	•	•	

Y/D starting current is approximately 1/3 of D starting current.

[1] *Only .180*



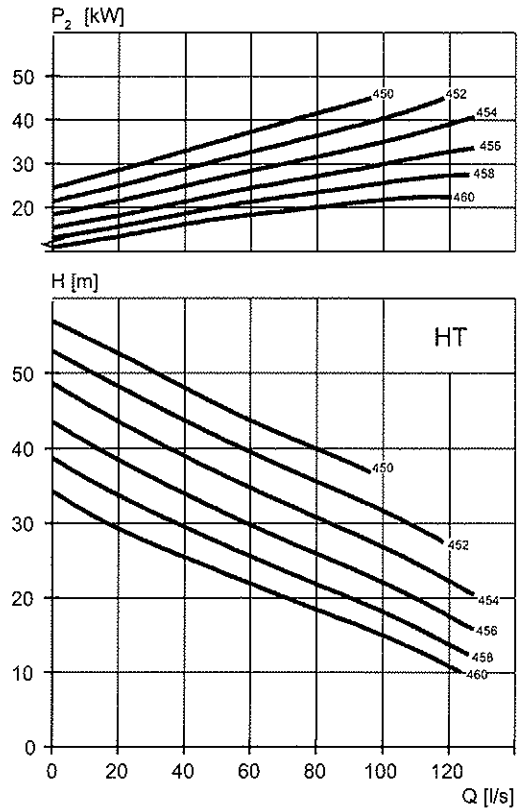


HT-Motor rating and performance curve

Curve/Impeller No	Rated power, kW	Rated current, A	Starting current, A	Power factor cos φ	Ex proof version available	Installation				
						P	S	T	Z	
400 V, 50 Hz, 3 ~, 1475 r/min										
454[1]	30	54	360	0,88	•	•	•	•	•	
456	30	54	360	0,88	•	•	•	•	•	
458[1]	30	54	360	0,88	•	•	•	•	•	
460	30	54	360	0,88	•	•	•	•	•	
400 V, 50 Hz, 3 ~, 1475 r/min										
450[1]	37	66	460	0,88	•	•	•	•	•	
452	37	66	460	0,88	•	•	•	•	•	
454[1]	37	66	460	0,88	•	•	•	•	•	
456	37	66	460	0,88	•	•	•	•	•	
458[1]	37	66	460	0,88	•	•	•	•	•	
460	37	66	460	0,88	•	•	•	•	•	
400 V, 50 Hz, 3 ~, 1475 r/min										
450[1]	45	79	540	0,89	•	•	•	•	•	
452	45	79	540	0,89	•	•	•	•	•	
454[1]	45	79	540	0,89	•	•	•	•	•	
456	45	79	540	0,89	•	•	•	•	•	
458[1]	45	79	540	0,89	•	•	•	•	•	
460	45	79	540	0,89	•	•	•	•	•	

Y/D starting current is approximately 1/3 of D starting current.

[1] *Only .180*

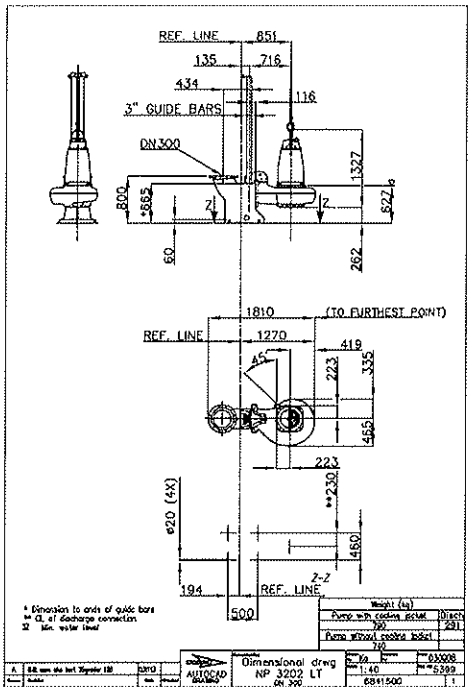


Dimensional drawing

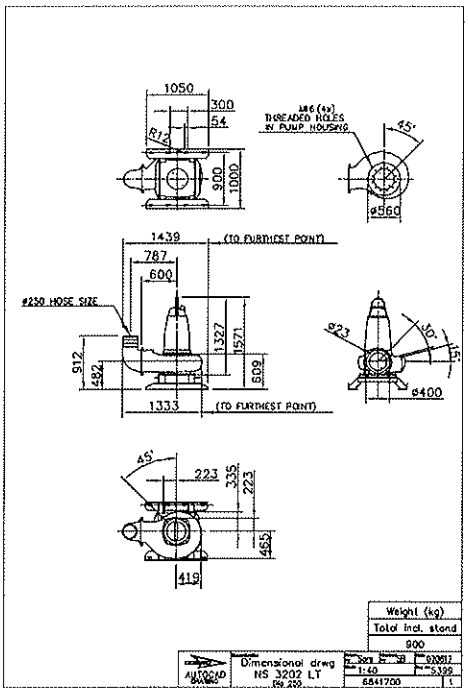
All drawings are available as Acrobat documents (.pdf) and AutoCad drawings (.dwg). Download the drawings from www.flygt.com or contact your ITT Flygt representative for more information.

All dimensions are in mm.

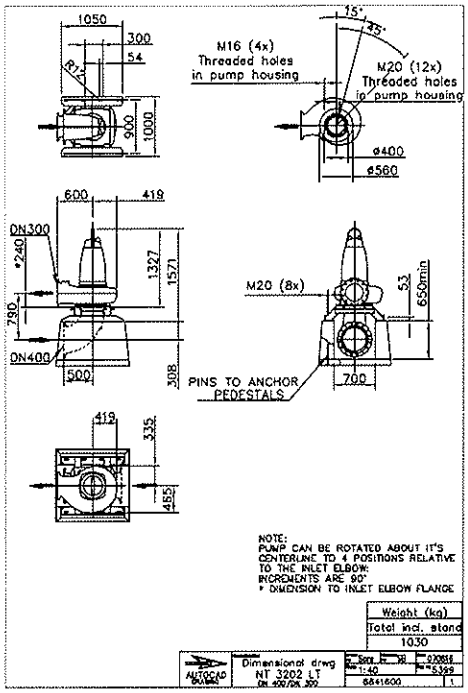
LT, P-installation



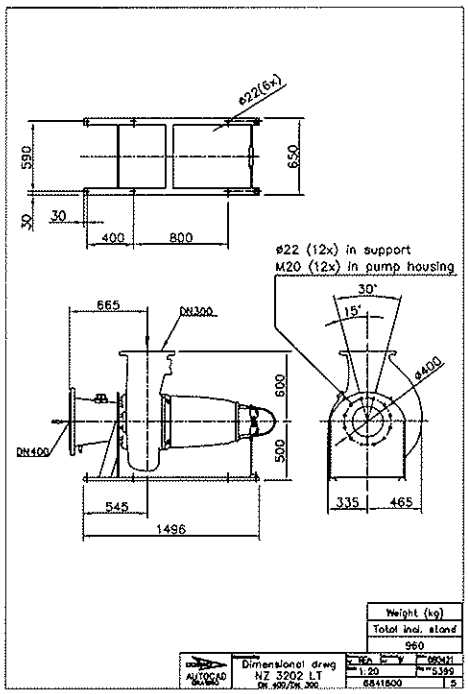
LT, S-installation



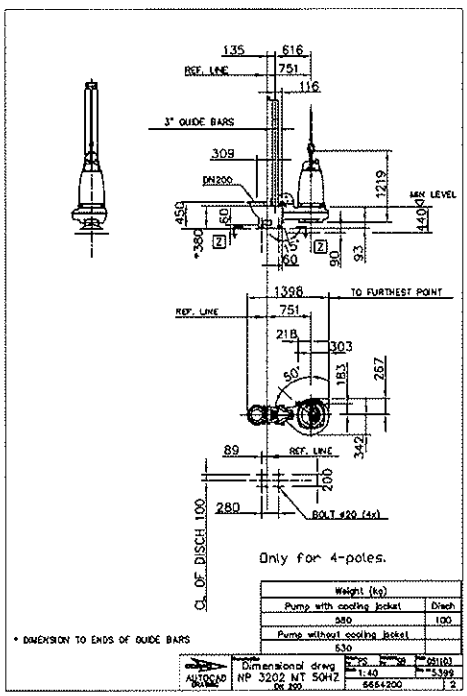
LT, T-installation



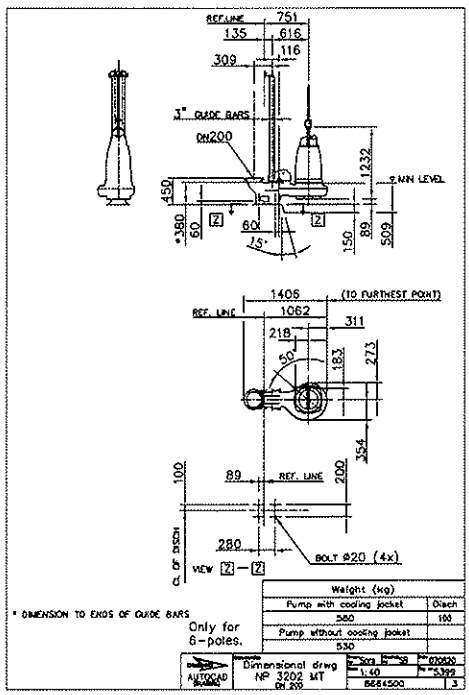
LT, Z-installation



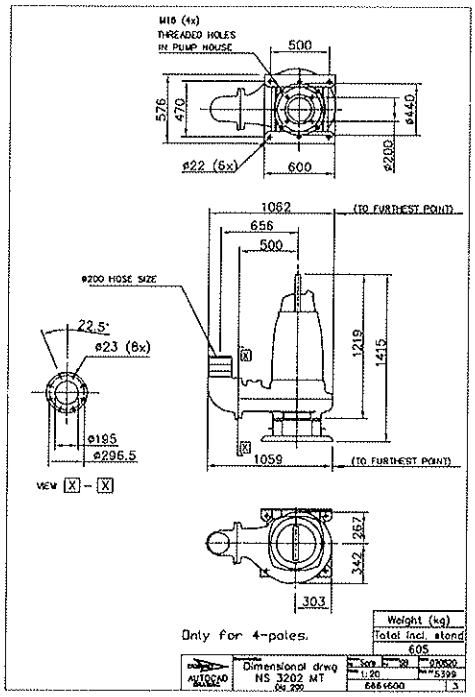
MT, P-installation



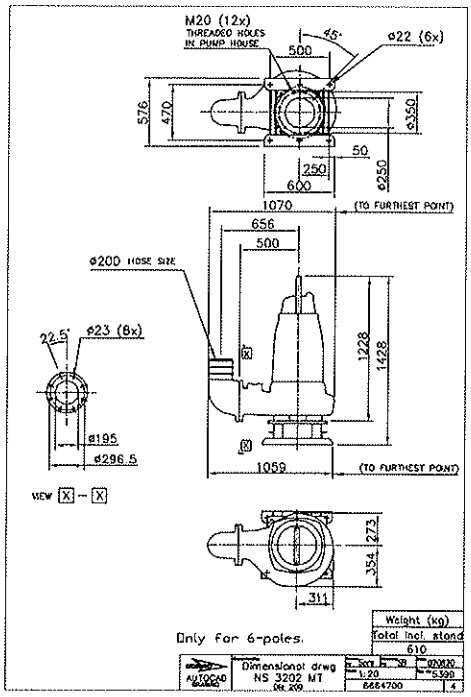
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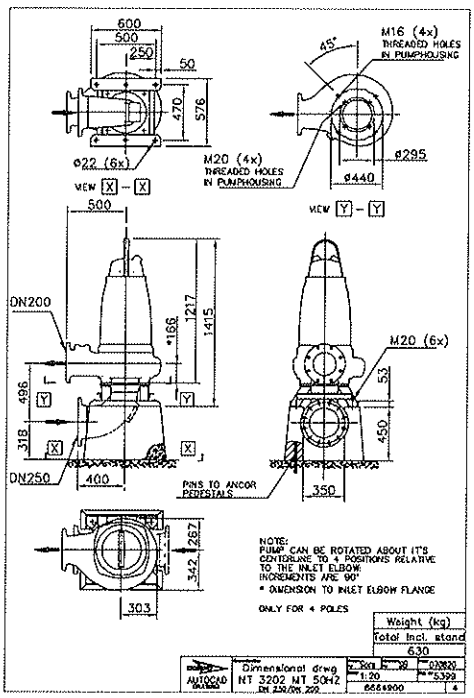
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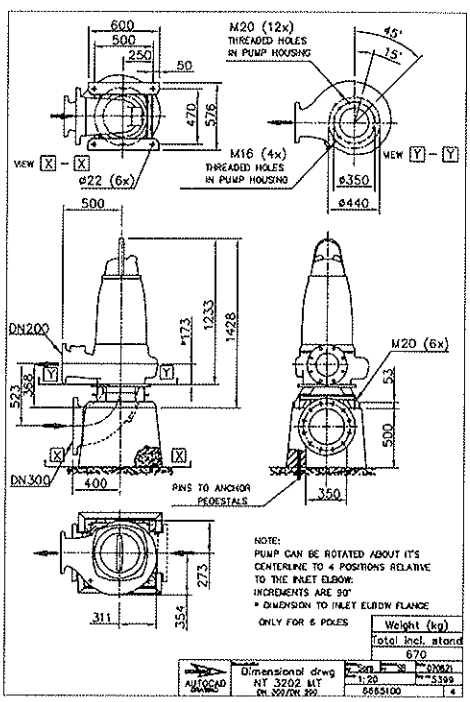
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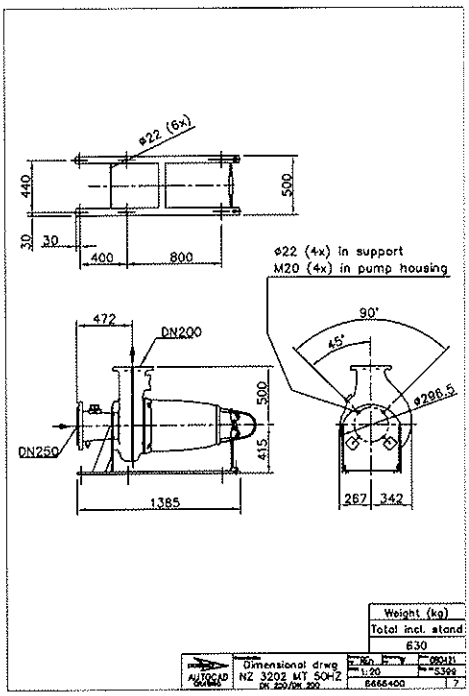
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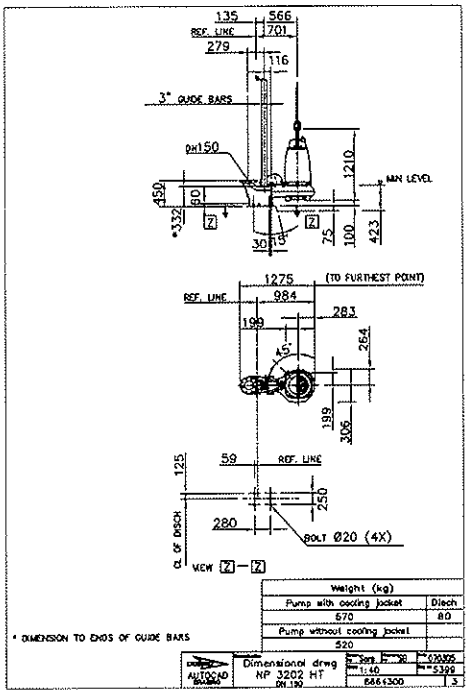
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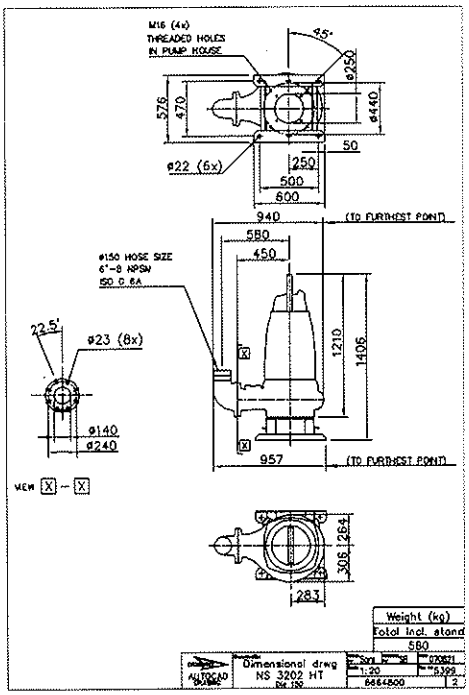
MT, Z-installation



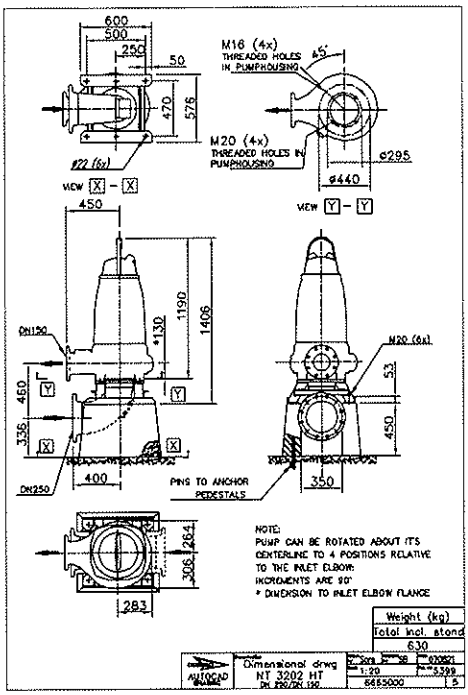
HT, P-installation



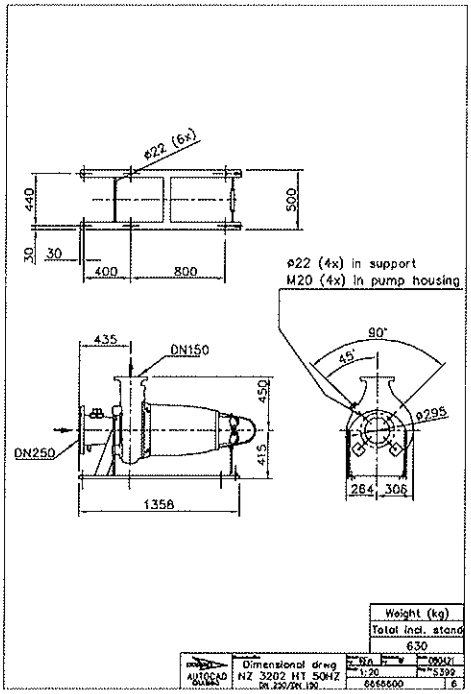
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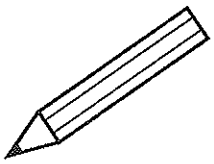


HT, T-installation



HT, Z-installation





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