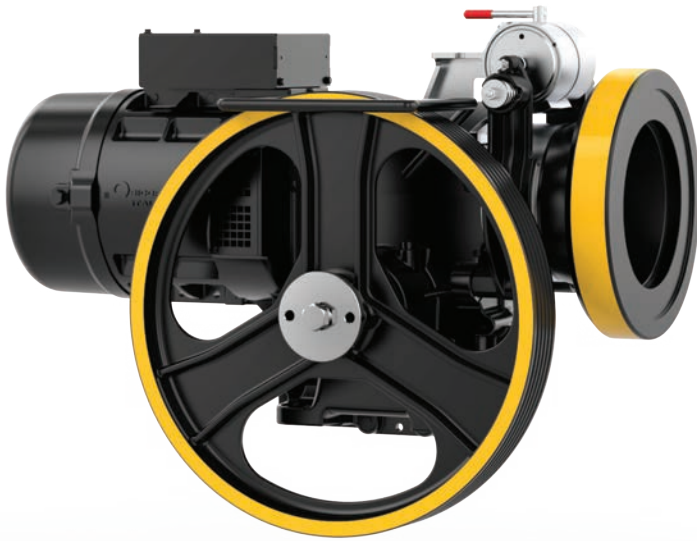


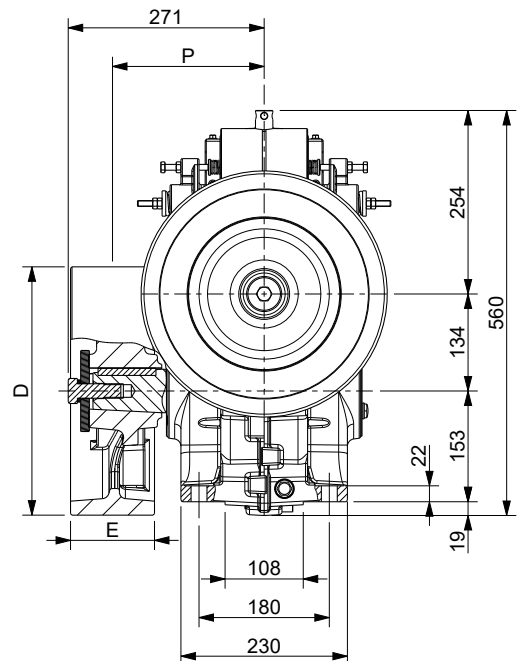
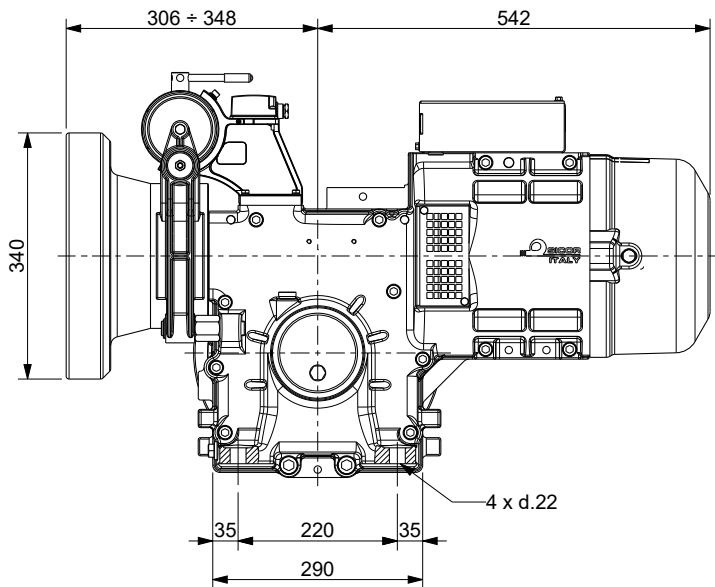
GEARED MR12



Max. Static Load **25,5 kN - 2600 kg**
 Power Range 50 Hz 4 poles VVVF **4 ÷ 6,7 kW**
 Power Range 50 Hz 4/16 poles **4 ÷ 5,5 kW**
 Power Range 50 Hz 6 poles VVVF **2,7 ÷ 3,6 kW**
 Power Range 50 Hz 6/16 poles **2,7 ÷ 3,6 kW**
 Power Range 60 Hz 4 poles VVVF **4,4 ÷ 6 kW**
 Power Range 60 Hz 4/16 poles **4,4 ÷ 6 kW**
 Power Range 60 Hz 6 poles VVVF **4 kW**
 Power Range 60 Hz 6/16 poles **4 kW**
 Ratio **1/52; 1/45; 1/43; 2/53; 2/43**
 Geared Weight **240 kg**
 Oil capability **3,8 l**
 Geared machine Rh o Lh (see from motor) **Pictures Gear Rh**

*The geared machine efficiency values are present above each "rated load" table
 The motor efficiency values are present in the table "electric motor data"*

DIMENSIONS



Wrapping System	Traction sheave		Dimension	Load*)	Static Load Direction	Brake Electromagnet		
	D [mm]	E [mm]	P [mm]	F [kN - kg]	[%]	[V]	[A]	[W]
ESW	340	116	210	22	↓ 100%	24	5,25	126
	340	76	195	25,5 - 2600		48	2,30	110
	340	100	202	24,7 - 2500		60	1,77	106
	420	68	197	25,5 - 2600		80	1,50	120
CSW	440	68	197	25,5 - 2600	100% ↑ 100% ↔ 100% ↓ 100%	110	1,02	112
	440	76	201	24,1 - 2450		200	0,63	126
	480	78	202	25,5 - 2600				
	550	68	197	25,5 - 2600				
	550	76	204	23,3 - 2375				
	550	83	204	23,3 - 2375				
	600	68	232	17,7 - 1800				

*) Max. static load on the slow shaft:
 CSW: Conventional single wrap.
 ESW: Extended single wrap (patented).

				50Hz				60Hz		
				VVVF 1500 rpm 4 Poles AC2 1500/375 rpm 4/16 Poles				VVVF 1800 rpm 4 Poles AC2 1800/450 rpm 4/16 Poles		
				Motor Output [kW] Asynchronous						
				VVVF/AC2 4		VVVF/AC2 5,5		VVVF 6,7	VVVF/AC2 4,4	
Wrapping system	ᐃᑦ ᑦᑦ	R.R.	Traction Sheave Ø	Speed syn.	Max Rated Load			Speed syn.	Max Rated Load	
CSW	ESW	[i]	[mm]	[m/s]	[kg]	[kg]	[kg]	[m/s]	[kg]	[kg]
X	X	1/52	340	0,51	750	--	--	0,62	750	--
X	X	1/45	340	0,59	750	--	--	0,71	705	750
X	X	1/43	340	0,62	715	750	--	0,75	655	750
X	--	1/52	420	0,63	700	750	--	0,76	640	750
X	--	1/52	440	0,66	670	725	--	0,80	610	725
X	--	1/52	480	0,72	630	660	--	0,87	575	660
X	--	1/45	420	0,73	625	750	--	0,88	570	690
X	--	1/43	420	0,77	580	745	--	0,92	530	745
X	--	1/45	440	0,77	595	725	--	0,92	545	655
X	--	1/43	440	0,80	555	710	--	0,96	505	710
X	--	1/52	550	0,83	550	580	--	1,00	500	580
X	--	1/45	480	0,84	585	665	--	1,01	530	600
X	--	1/43	480	0,88	520	650	--	1,05	475	650
X	--	1/52	600	0,91	530	--	--	1,09	500	530
X	--	1/45	550	0,96	510	580	--	1,15	465	525
X	--	1/43	550	1,00	490	570	--	1,21	445	570
X	X	2/53	340	1,01	485	690	750	1,21	440	625
X	--	1/45	600	1,05	475	530	--	1,26	435	480
X	--	1/43	600	1,10	455	520	--	1,32	415	520
X	X	2/43	340	1,24	395	560	710	1,49	360	510
X	--	2/53	420	1,24	400	570	660	1,49	365	515
X	--	2/53	440	1,30	375	535	630	1,56	340	485
X	--	2/53	480	1,42	350	500	580	1,71	320	450
X	--	2/43	420	1,53	295	460	575	1,84	295	420
X	--	2/43	440	1,61	280	400	550	1,93	260	365
X	--	2/53	550	1,63	280	395	505	1,96	255	360
X	--	2/43	480	1,75	260	365	505	2,10	235	335
X	--	2/53	600	1,78	255	360	465	2,13	235	330
X	--	2/43	550	2,01	225	320	440	2,41	205	290
X	--	2/43	600	2,19	205	295	400	2,63	190	270

		50Hz			60Hz		
		Motor Output [kW]					
		VVVF/AC2 4	VVVF/AC2 5,5	VVVF 6,7	VVVF/AC2 4,4	VVVF/AC2 6	
R.R.	Max Output Torque	Geared Efficiency			Max Output Torque	Geared Efficiency	
[i]	[Nm]				[Nm]		
1/52	978	0,72	--	--	978	0,72	--
1/45	980	0,74	0,76	--	980	0,73	--
1/43	963	0,74	0,76	0,78	963	0,74	0,76
2/53	856	0,79	0,82	0,83	856	0,79	0,82
2/43	895	0,81	0,83	0,85	895	0,80	0,83

Rated load values listed in the table include the weight of the ropes. To know the theoretical load, subtract the weight of the ropes.
Position Of The Geared = Top. Counterweight = 50%. Plant efficiency = 0,80

50Hz			60Hz	
VVVF 1000 rpm 6 Poles AC2 1000/250 rpm 6/24 Poles			VVVF 1200 rpm 6 Poles AC2 1200/450 rpm 6/16 Poles	
Motor Output [kW] Asynchronous				
VVVF/AC2 2,7		VVF 3,6	VVVF/AC2 4	
Speed syn.	Max Rated Load		Speed syn.	Max Rated Load
[m/s]	[kg]	[kg]	[m/s]	[kg]
0,34	750	--	0,41	750
0,40	750	--	0,47	750
0,41	725	750	0,50	750
0,42	710	750	0,51	750
0,44	675	750	0,53	750
0,48	640	720	0,58	725
0,49	630	750	0,59	750
0,51	585	750	0,61	745
0,51	605	750	0,61	750
0,54	560	750	0,64	710
0,55	555	630	0,66	635
0,56	595	730	0,67	735
0,58	530	730	0,70	670
0,60	560	575	0,72	580
0,64	520	640	0,77	645
0,67	495	650	0,80	625
0,67	495	680	0,81	625
0,70	485	585	0,84	590
0,73	460	595	0,88	585
0,83	400	550	0,99	505
0,83	405	560	1,00	515
0,87	380	525	1,04	480
0,95	355	490	1,14	450
1,02	330	455	1,23	415
1,07	285	395	1,29	365
1,09	280	390	1,30	355
1,17	260	360	1,40	330
1,19	260	355	1,42	325
1,34	230	315	1,61	290
1,46	210	290	1,75	265

50Hz			60Hz	
Motor Output [kW]				
VVVF/AC2 2,7		VVF 3,6	VVVF/AC2 4	
Max Output Torque	Geared Efficiency		Max Output Torque	Geared Efficiency
[Nm]			[Nm]	
1065	0,72	--	1065	0,74
1080	0,74	0,76	1080	0,76
1102	0,74	0,76	1102	0,76
992	0,79	0,82	992	0,81
1036	0,81	0,83	1036	0,83



		50Hz								
		VVVF 1500 rpm 4 Poles AC2 1500/375 rpm 4/16 Poles					VVVF 1000 rpm 6 Poles AC2 1000/375 rpm 6/16 Poles			
		Asynchronous Rated Power [kW]								
		VVVF 4	VVVF 5,5	VVVF 6,7	AC2 4	AC2 5,5	VVVF 2,7	VVVF 3,6	AC2 2,7	AC2 3,6
		Motor Parameters								
Rated Voltage (star connection) ^{(1) (3)}	[V]	400	400	400	400	400	400	400	400	400
Frequency	[Hz]	50	50	50	50	50	50	50	50	50
Synchronous Speed	[rpm]	1500	1500	1500	1500/375	1500/375	1000	1000	1000/375	1000/375
Asynchronous Speed	[rpm]	1379	1368	1440	1359/276	1359/280	912	920	893/268	917/270
Rated Current ⁽²⁾	[A]	10,4	15,2	16,5	12,7/11,4	15/15,5	8,8	11,5	10,9/11,5	15/12,4
Rated Torque	[Nm]	27,7	38,4	44,4	28,1	38,7	28,3	37,5	28,9	37,2
Cos φ Power Factor	[]	0,72	0,69	0,69	0,77	0,69	0,6	0,67	0,65	0,5
Starting Current	[A]	42	58	95	39	52	29	38	29	39
Starting Torque	[Nm]	73	114	115	79	94	77	111	69	98
Duty Cycle	[%]	40	40	40	30+10	30+10	40	40	30+10	30+10
Starts per Hour	[s/h]	240	240	240	180	180	240	240	180	180
Insulation Class	[]	F	F	F	F	F	F	F	F	F
Degree of Protection IP	[]	IP21	IP21	IP21	IP21	IP21	IP21	IP21	IP21	IP21
Phase Resistance 4/6 poles at 20°C	R _{4/6} [Ω]	1,4	0,88	--	1,5	1,2	1,9	1,3	2,1	1,4
Phase Resistance 16 poles at 20°C	R ₁₆ [Ω]	--	--	--	7,5	4	--	--	5,6	4,8

(1) The motors are standard supplied with star connection (Y), the customer can arrange a delta connection (Δ).

(2) The indicated current values are related to 400V voltage. For current values with delta connection, multiply the values by 1,732.

(3) The standard supply voltage is suitable for 380-400V/220-230V power supplies.

The geared machine includes a fan, 1~220...240V, 50/60Hz, 0,7A.

Available on request 115V supply voltage.

The inertia value includes the high speed shaft, while the flywheel is excluded.

		60Hz					
		VVVF 1800 rpm 4 Poles AC2 1800/450 rpm 4/16 Poles				VVVF 1200 rpm 6 Poles AC2 1200/450 rpm 6/16 Poles	
		Asynchronous Rated Power [kW]					
		VVVF 4,4	VVVF 6	AC2 4,4	AC2 6	VVVF 4	AC2 4
		Motor Parameters					
Rated Voltage (star connection) ^{(1) (3)}	[V]	380	400	400	400	400	380
Frequency	[Hz]	60	60	60	60	60	60
Synchronous Speed	[rpm]	1800	1800	1800/450	1800/450	1200	1200/450
Asynchronous Speed	[rpm]	1630	1660	1606/330	1680/380	1100	1096/318
Rated Current ⁽²⁾	[A]	11	15,2	11,8/10	18/14	20	13,2/10,4
Rated Torque	[Nm]	25,8	34,5	26,2	34,1	34,7	34,8
Cos φ Power Factor	[]	0,81	0,81	0,63	0,78	0,67	0,58
Starting Current	[A]	42	52	39	48	42	35
Starting Torque	[Nm]	65	113	64	74	73	57
Duty Cycle	[%]	40	40	30+10	30+10	40	30+10
Starts per Hour	[s/h]	240	240	180	180	240	180
Insulation Class	[]	F	F	F	F	F	F
Degree of Protection IP	[]	IP21	IP21	IP21	IP21	IP21	IP21
Phase Resistance 4/6 poles at 20°C	R _{4/6} [Ω]	0,98	0,57	--	0,9	1,62	--
Phase Resistance 16 poles at 20°C	R ₁₆ [Ω]	--	--	--	--	--	--

(1) The motors are standard supplied with star connection (Y), the customer can arrange a delta connection (Δ).

(2) The indicated current values are related to 400V voltage. For current values with delta connection, multiply the values by 1,732.

(3) The standard supply voltage is suitable for 380-400V/220-230V power supplies.

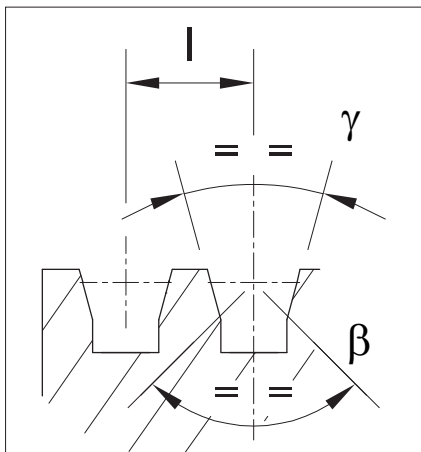
The geared machine includes a fan, 1~220...240V, 50/60Hz, 0,7A.

Available on request 115V supply voltage.

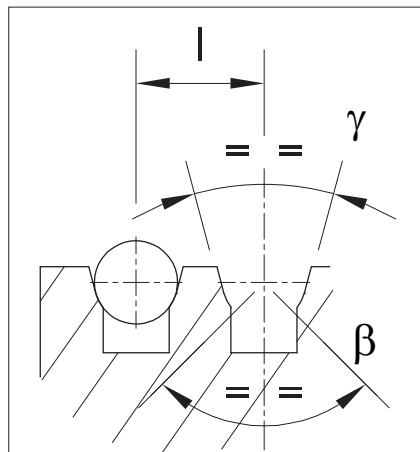
The inertia value includes the high speed shaft, while the flywheel is excluded.

TRACTION SHEAVES AND GROOVES NUMBER x ROPES DIAMETER

Winding System	Traction sheave		Max n°Grooves x D	Grooves Pitch
	D [mm]	E [mm]	n° x mm	l [mm]
ESW	340	116	6xD8	20
	340	76	6xD8	12
	340	100	8xD8	12
	420	68	5xD8	12
	420	68	4xD9	16
	420	68	4xD10	16
	440	68	5xD8	12
	440	68	4xD9	16
	440	68	4xD10	16
	440	68	3xD11	18
	440	76	6xD8	12
	440	76	4xD9	16
	440	76	4xD10	16
	440	76	4xD11	18
	480	78	6xD8	12
	480	78	4xD9	16
	480	78	4xD10	16
	480	78	4xD11	18
	480	78	4xD12	18
	550	68	5xD8	12
	550	68	4xD9	16
	550	68	4xD10	16
	550	68	3xD11	18
	550	68	3xD12	18
	550	68	3xD13	19
CSW	550	76	6xD8	12
	550	76	4xD9	16
	550	76	4xD10	16
	550	76	4xD11	18
	550	76	3xD12	18
	550	76	3xD13	19
	550	83	6xD8	12
	550	83	5xD9	16
	550	83	4xD10	16
	550	83	4xD11	18
	550	83	4xD12	18
	550	83	4xD13	19
	600	68	5xD8	12
	600	68	4xD9	16
	600	68	4xD10	16
	600	68	3xD11	18
	600	68	3xD12	18
	600	68	3xD13	19

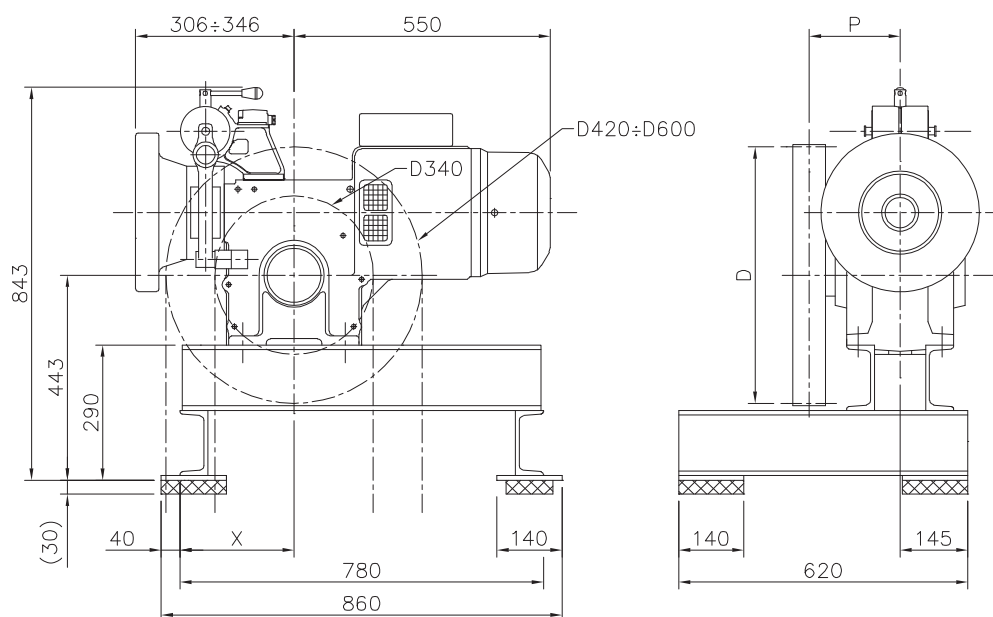


V grooves with undercut



U grooves with undercut

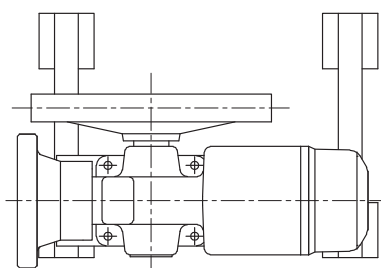
γ = groove angle
 β = Undercut angle



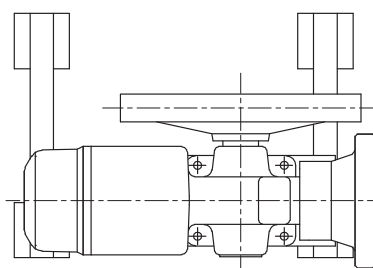
Code	Traction Sheave	P	X
	D [mm]	[mm]	[mm]
XTE0053 (included vibration dampers)	340	195 - 210	245
	420	197	180
	440	197 - 201	180
	480	202	180
	550	197 - 204	245
	600	232	245

Weight of machine bedplate: 60 kg (bedplate + vibration dampers)

INSTALLATION POSITION

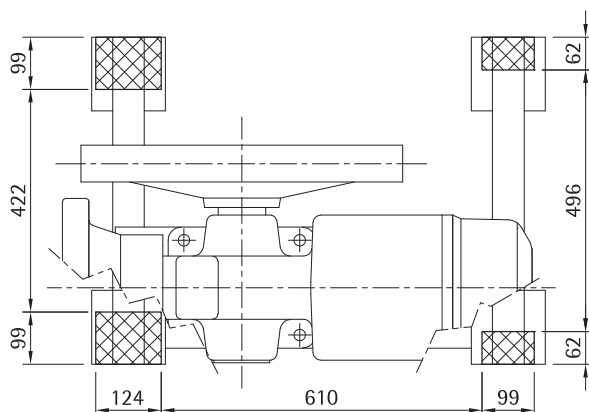


Right hand Machine



Left hand Machine

VIBRATIONS DAMPER SET UP



Damper code	Dimension
	[mm]
TAI0033	62x99xh30
TAI0017	99x124xh30

Technical drawing of the 1000 Series Compressor showing front and side views with dimensions.

Front View Dimensions:

- Overall width: 550
- Motor width: 306 ÷ 346
- Overall height: 1423
- Height to top of motor: 1023
- Height to top of compressor body: 400
- Height to base: 470
- Base width: 1010
- Base offset (left): 140
- Base offset (right): 80
- Internal width (left): 180
- Internal width (right): 180
- Internal diameter: $\varnothing 450$
- Overall height to base: 788

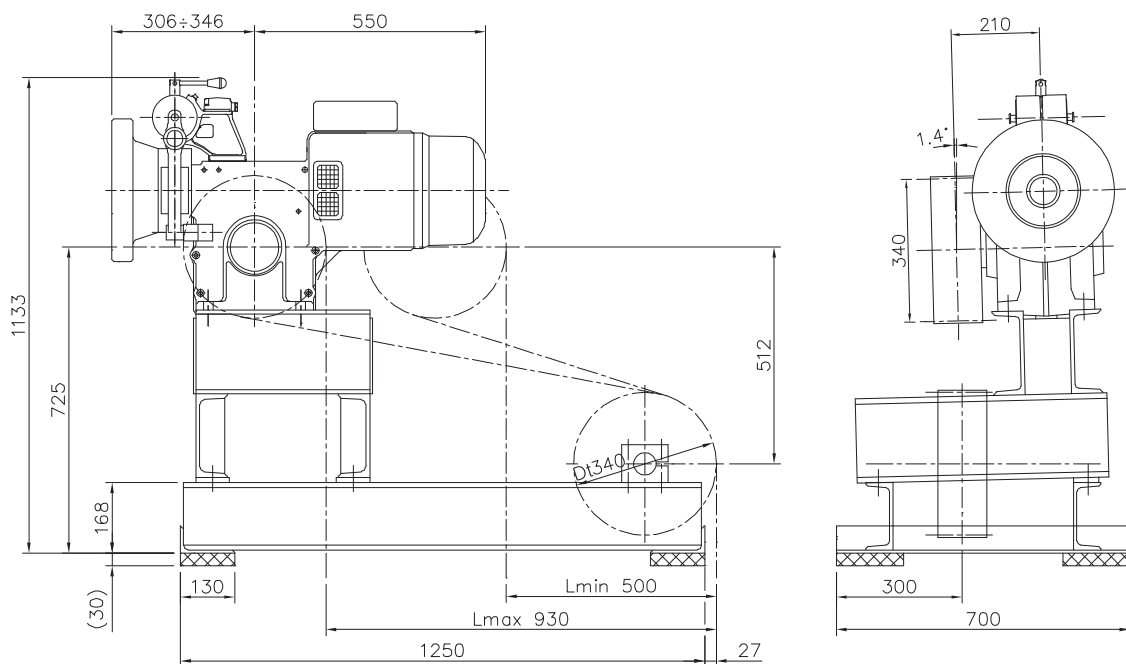
Side View Dimensions:

- Overall width: 620
- Motor width: 160
- Compressor body width: 150
- Overall height: D
- Motor width: P

Weight of machine bedplate: 195 kg. (bedplate + diverting pulley Dt450 + vibration dampers)

The figure contains four technical drawings of a machine head, arranged in a 2x2 grid. The top row shows the 'Right hand Machine' from two perspectives: (A) from the front and (B) from the side. The bottom row shows the 'Left hand Machine' from two perspectives: (C) from the front and (D) from the side. Each drawing is a detailed line drawing showing the internal components of the machine head, including the central shaft, bearings, and various adjustment points. The drawings are labeled with letters A, B, C, and D in the corners, and the machine types are labeled at the bottom.

Damper code	Dimension
	[mm]
TAI0016	82x124xh30
TAI0017	99x124xh30

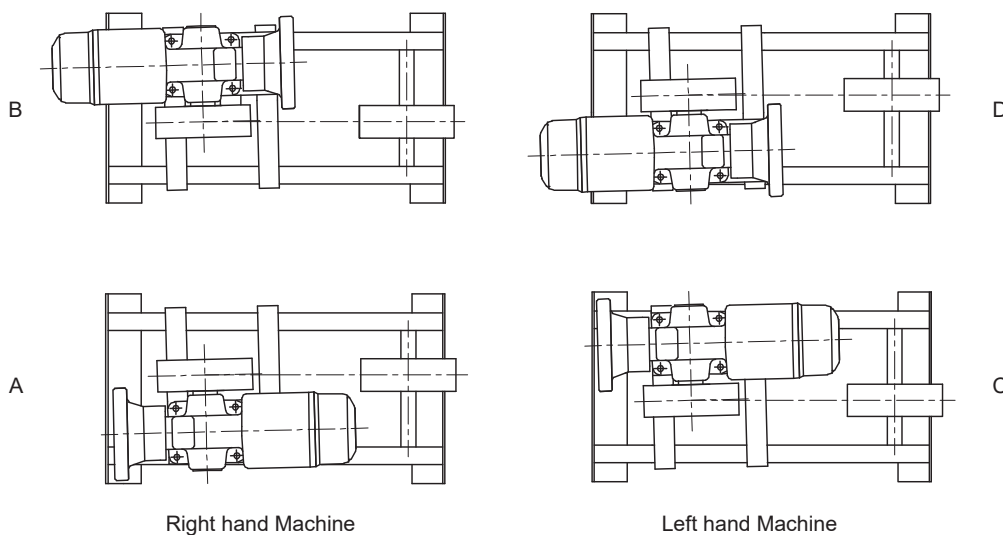


XTE0057 (included vibration dampers)

Weight of machine bedplate: 150 kg

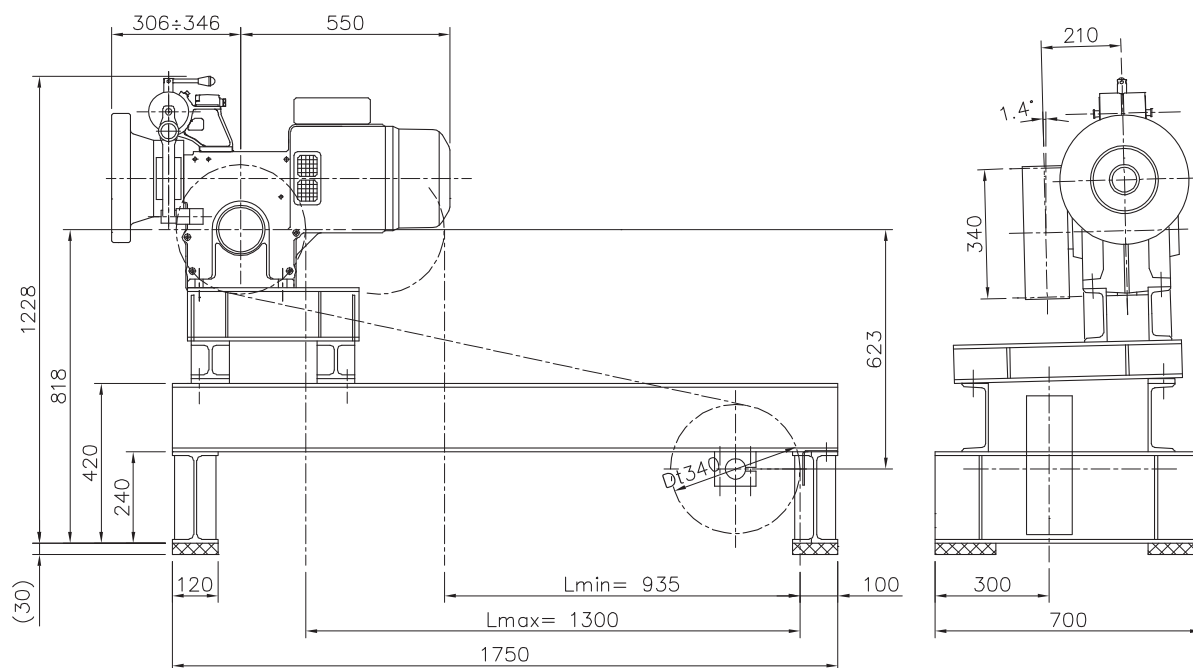
(bedplate + diverting pulley Dt340 + vibration dampers)

INSTALLATION POSITION



BEDPLATE | MACHINE FOR SIDE DRIVE LIFT WITH Dt 340 DIVERTING PULLEY

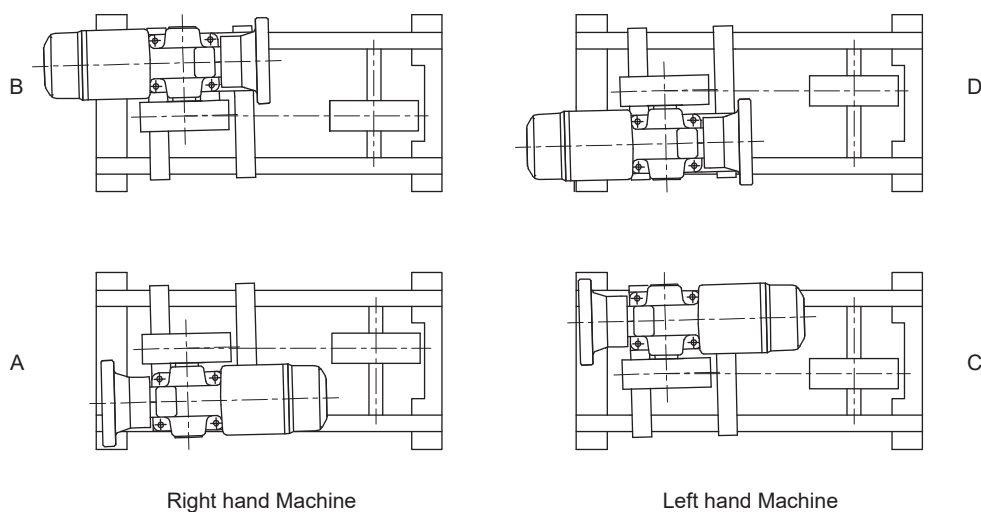
Roping 1:1

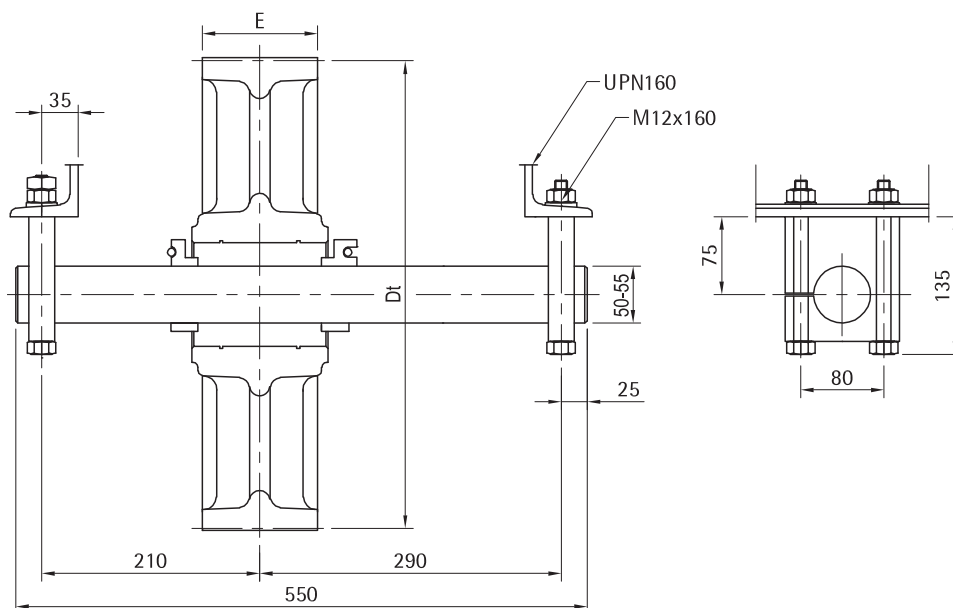


XTE0058 (included vibration dampers)

Weight of machine bedplate: 160 kg

(bedplate + diverting pulley Dt340 + vibration dampers)

INSTALLATION POSITION



Diverting Pulley		Max n° Grooves x D	Grooves Pitch
Dt [mm]	E [mm]	n° x mm	l [mm]
340	80	6xD8	12
	120	6xD8	20
		8xD8	12
450	74	6xD8	12
	90	5xD9	16
		5xD10	16
		5xD11	16
		4xD11	18
		4xD12	18
530	90	3xD13	19

