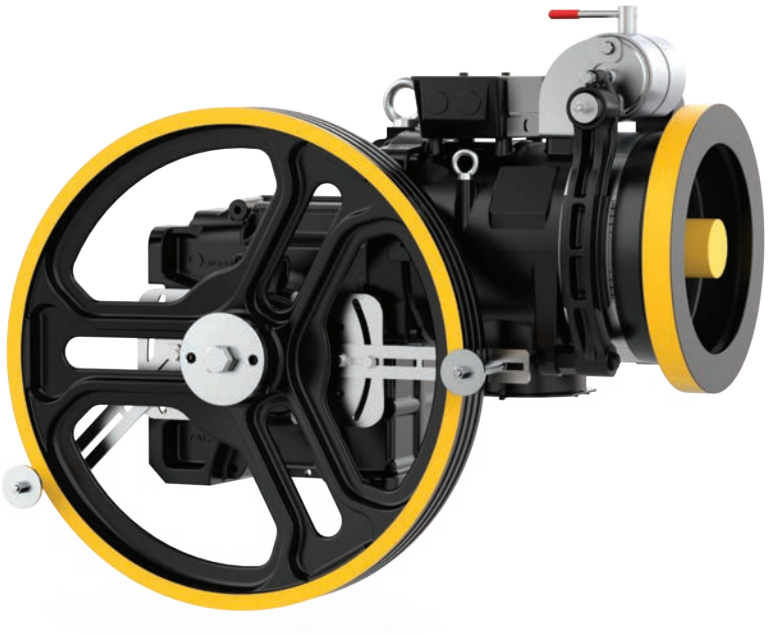
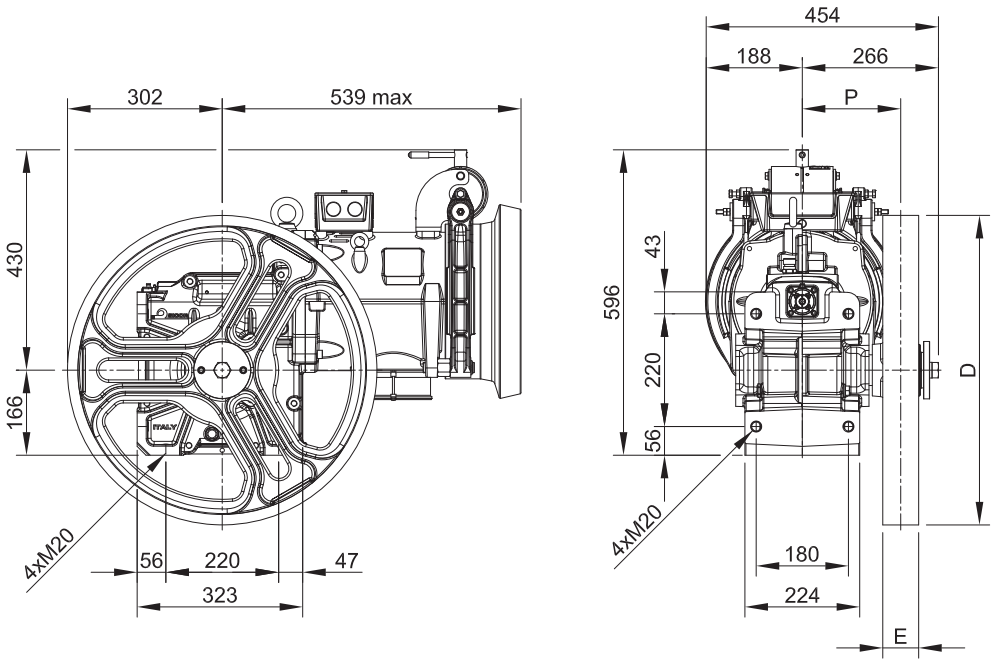
GEARED SH130G



Max. Static Load	**28,4 kN - 2900 kg**
Power Range 50 Hz 4 poles VVVF	**5,5 ÷ 7,5 kW**
Power Range 60 Hz 4 poles VVVF	**6 ÷ 8,2 kW**
Power Range 50 Hz 4/16 poles	**5,5 ÷ 7,5 kW**
Power Range 60 Hz 4/16 poles	**6 ÷ 8,2 kW**
Ratio	**1/52; 1/43; 1/37**
Geared Weight	**250 kg**
Oil capability	**3,7 l**
Geared machine Rh o Lh (see from motor)	**Pictures Gear Lh**

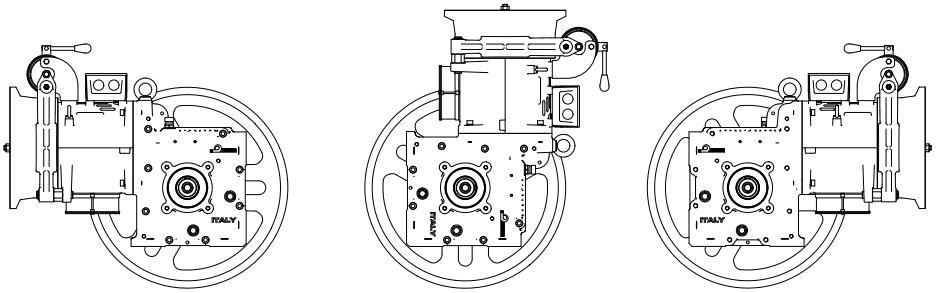
The geared machine efficiency values are present above each "rated load" table
The motor efficiency values are present in the table "electric motor data"

DIMENSIONS



Wrapping System	Traction sheave		Dimension	Load*)	Static Load Direction
	D [mm]	E [mm]	P [mm]	F [kN - kg]	[%]
CSW	480 520 550	90	197	28,4 - 2900	100% 100% 100% 100%

*) Max. static load on the slow shaft: CSW: Conventional single wrap



horizontal lh | vertical | horizontal rh

Brake Electromagnet		
[V]	[A]	[W]
24	5,25	126
48	2,30	110
60	1,77	106
80	1,50	120
110	1,02	112
200	0,63	126

DUTY TABLE

Roping 1:1

		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 **5,5**	AC2 **6,7**	VVVF **7,5**	AC2 **7,5**		VVVF/AC2 **6**	AC2 **7,4**	VVVF **8,2**	AC2 **8,2**
R.R.	Traction Sheave Ø	Speed syn.	Max Rated Load				Speed syn.	Max Rated Load			
[i]	[mm]	[m/s]	[kg]	[kg]	[kg]	[kg]	[m/s]	[kg]	[kg]	[kg]	[kg]
1/52	480	0,72	820	--	--	--	0,87	750	--	--	--
1/52	520	0,79	755	--	--	--	0,94	695	--	--	--
1/52	550	0,83	715	--	--	--	1,00	655	--	--	--
1/43	480	0,88	750	820	820	--	1,05	675	745	745	--
1/43	520	0,95	690	755	755	--	1,14	625	690	690	--
1/43	550	1,00	655	715	715	--	1,21	590	650	650	--
1/37	480	1,02	660	745	745	--	1,22	595	745	745	--
1/37	520	1,10	605	690	690	--	1,32	550	690	690	--
1/37	550	1,17	575	650	650	--	1,40	520	690	690	--

	50Hz					60Hz				
	Motor Output **[kW]**									
		VVVF/AC2 **5,5**	AC2 **6,7**	VVVF **7,5**	AC2 **7,5**		VVVF/AC2 **6**	AC2 **7,4**	VVVF **8,2**	AC2 **8,2**
R.R.	Max Output Torque	Geared Efficiency				Max Output Torque	Geared Efficiency			
[i]	[Nm]					[Nm]				
1/52	1210	0,75	0,76	0,77	--	1100	0,75	0,76	0,77	--
1/43	1210	0,77	0,78	0,79	--	1100	0,77	0,78	0,79	--
1/37	1100	0,79	0,80	0,81	--	1100	0,78	0,80	0,80	--

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

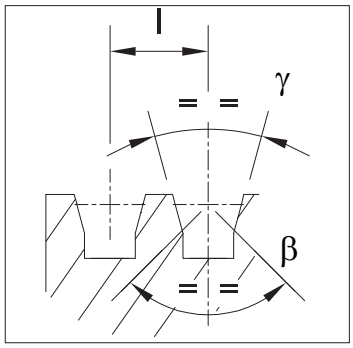
ELECTRIC MOTOR DATA

		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				
		Asynchronous Rated Power **[kW]**									
		VVVF **5,5**	VVVF **7,5**	AC2 **5,5**	AC2 **6,7**	AC2 **7,5**	VVVF **6**	VVVF **8,2**	AC2 **6**	AC2 **7,4**	AC2 **8,2**
		Motor Parameters									
Rated Voltage (star connection) (1)(3)	[V]	400	400	400	400	400	400	400	400	400	400
Frequency	[Hz]	50	50	50	50	50	60	60	60	60	60
Synchronous Speed	[rpm]	1500	1500	1500/375	1500/375	1500/375	1800	1800	1800/450	1800/450	1800/450
Asynchronous Speed	[rpm]	1424	1426	1370/285	1410/310	1350/297	1708	1741	1680/380	1700/370	1670/350
Rated Current (2)	[A]	12,4	17,8	15/15,5	16,4/13,8	18,3/14,9	15,5	19	17,8/13,5	16,4/13,8	19,2/15
Rated Torque	[Nm]	36,9	49,4	38,3	45	53	33,5	45	34	41	47
Cos φ Power Factor	[ ]	0,78	0,72	0,70	0,67	0,78	0,70	0,72	0,78	0,73	0,76
Starting Current	[A]	51	95	52	73	65	80	125	52	70	60
Starting Torque	[Nm]	78	120	94	113	134	70	93	74	100	110
Duty Cycle	[%]	60	60	30+10	30+10	30+10	60	60	30+10	30+10	30+10
Starts per Hour	[s/h]	240	240	180	180	180	240	240	180	180	180
Insulation Class	[ ]	F	F	F	F	F	F	F	F	F	F
Degree of Protection IP	[ ]	IP21	IP21	IP21	IP21	IP21	IP21	IP21	IP21	IP21	IP21

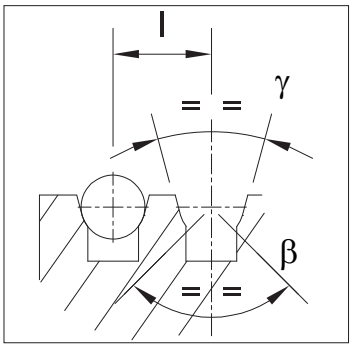
(1) The motors are standard supplied with star connection (Y), the customer can arrange a delta connection (Δ).
(2) The indicated current values are related to 400V voltage. For current values with delta connection, multiply the values by 1,732.
(3) The standard supply voltage is suitable for 380-400V/220-230V 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

Wrapping System	Traction sheave		Max n° Grooves x D	Grooves Pitch
	D [mm]	E [mm]	n° x mm	l [mm]
CSW	480	90	6xD8	14
	480	90	5xD9	17
	480	90	5xD10	17
	480	90	5xD11	17
	480	90	5xD12	19
	520	90	6xD8	14
	520	90	5xD9	17
	520	90	5xD10	17
	520	90	5xD11	17
	520	90	4xD12	19
	520	90	4xD13	19
	550	90	6xD8	14
	550	90	5xD9	17
	550	90	5xD10	17
	550	90	5xD11	17
	550	90	4xD12	19
	550	90	4xD13	19

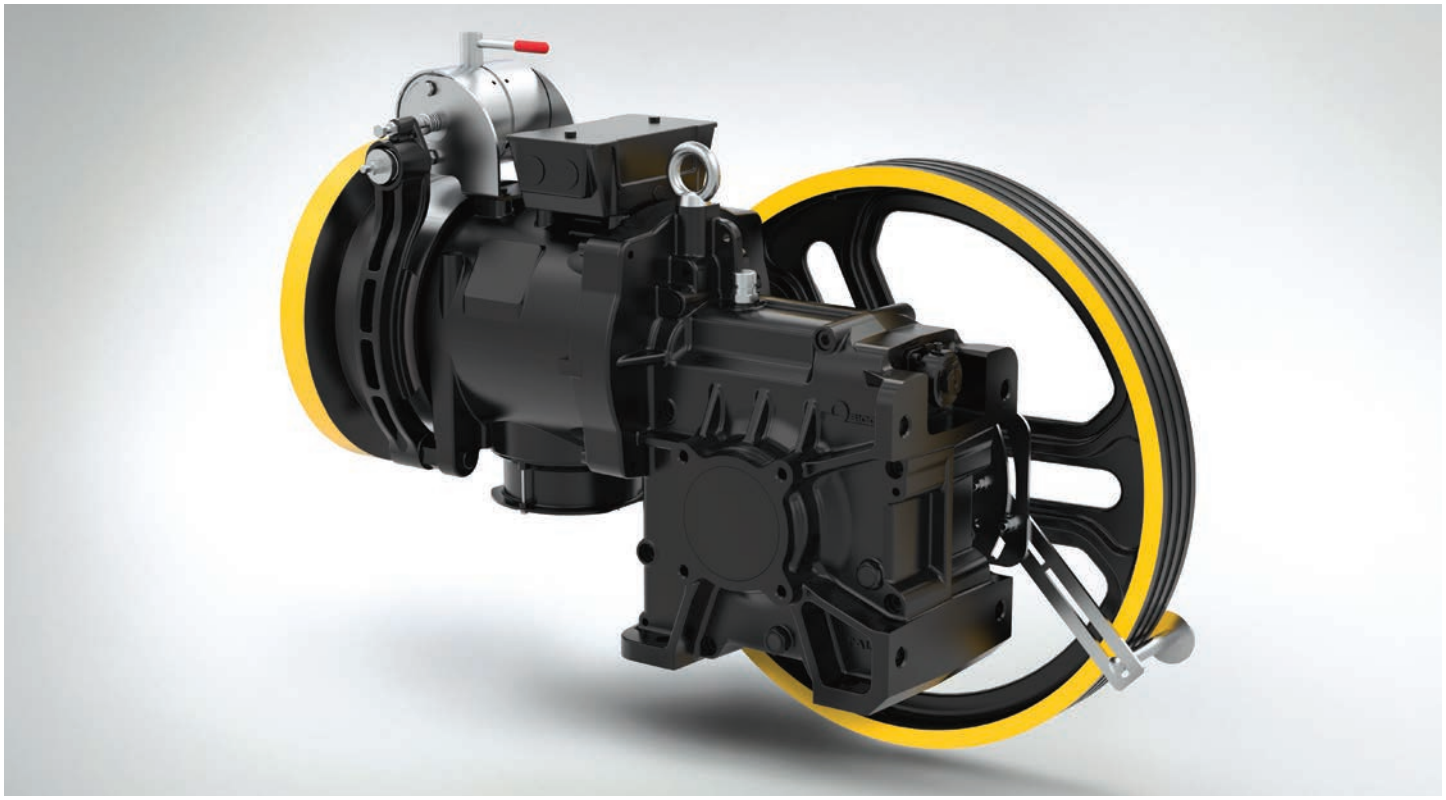


V grooves with undercut

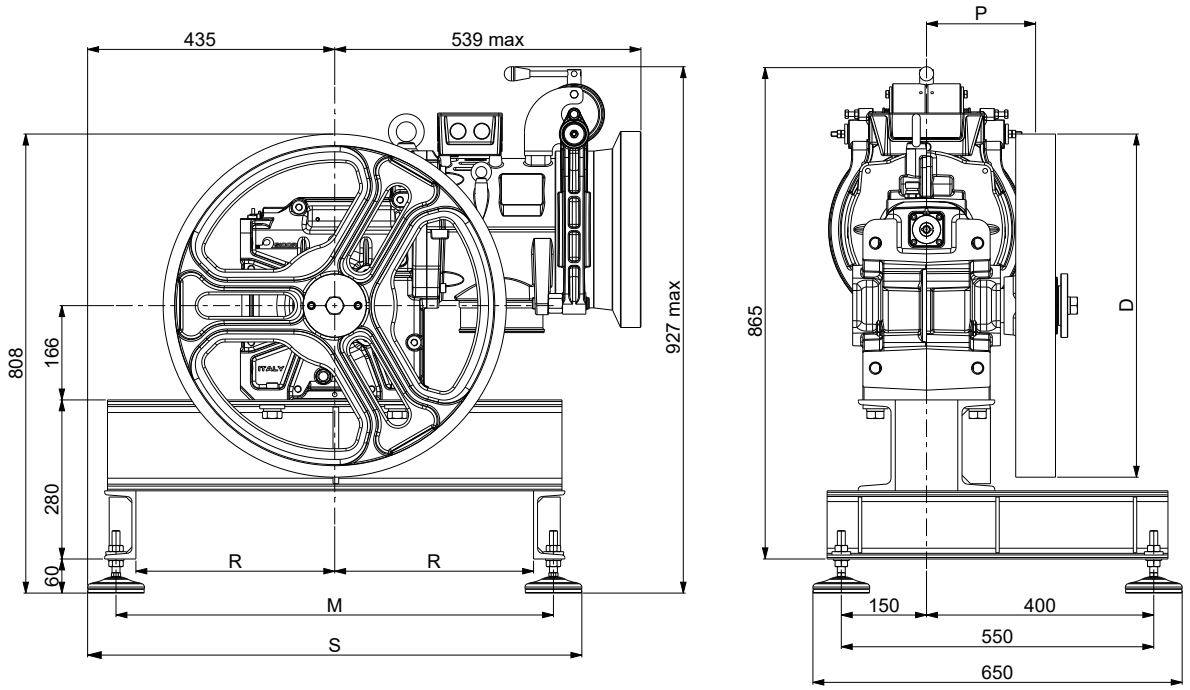


U grooves with undercut

γ = groove angle
β = Undercut angle



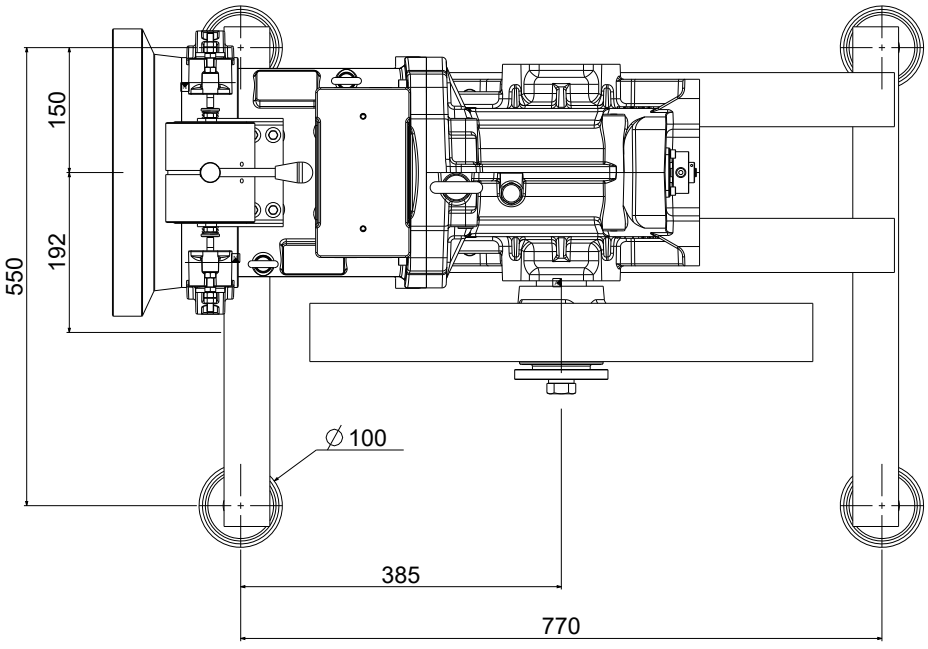
BEDPLATE | TOP MACHINE WITHOUT DIVERTING PULLEY FOR CSW WRAPPING



	M	R	S
	[mm]	[mm]	[mm]
XTE3020	770	350	870

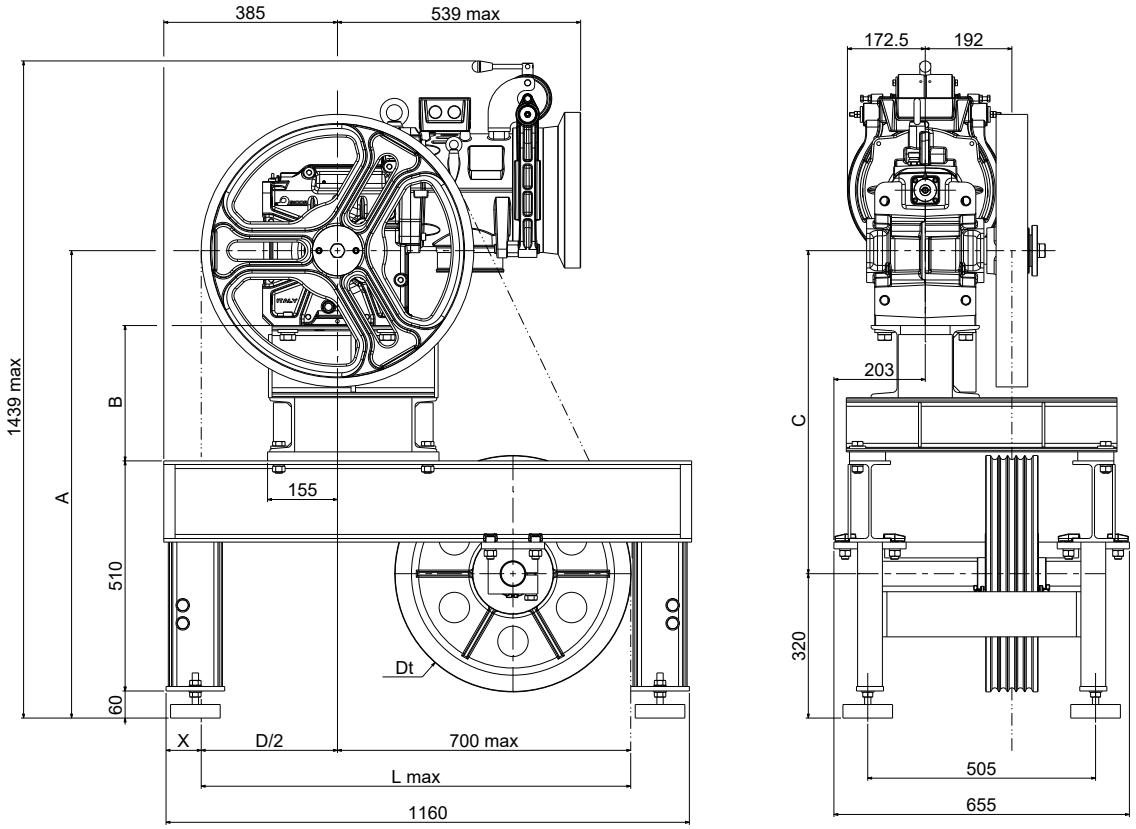
XTE3020 (D 320-600) (included vibration dampers)
Weight of machine bedplate: (XTE3020) 53 kg (bedplate + vibration dampers)

VIBRATIONS DAMPER SET UP



Damper code	Dimension
	[mm]
TAI0110	D.100x28

BEDPLATE | TOP MACHINE WITH DIVERTING PULLEY FOR CSW WRAPPING

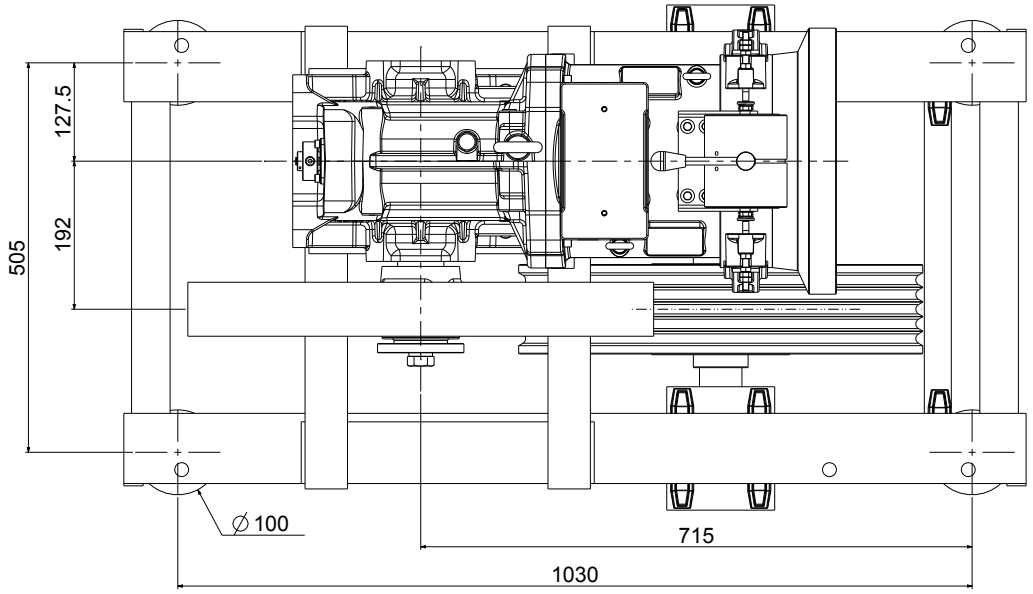


Traction Sheave	X	L max
D [mm]	[mm]	[mm]
480	140	940
520	120	960
550	105	975

Diverting Pulley	A	B	C
Dt [mm]			
400	1016	280	696
450	1016	280	696
520	1036	300	716

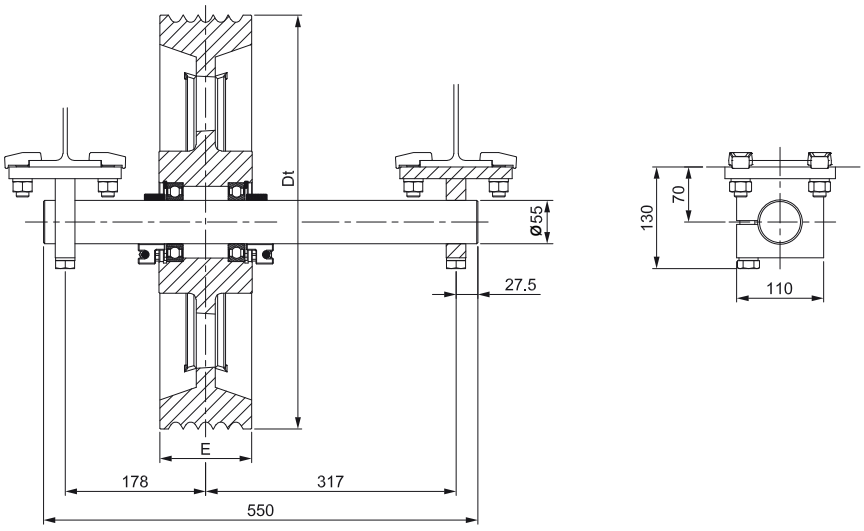
XTE3022 (Dt 400-450) - XTE3023 (Dt 520) (included vibration dampers)
Weight of machine bedplate: (XTE3022) 138 kg, (XTE3023) 148 kg (bedplate + diverting pulley + vibration dampers)

VIBRATIONS DAMPER SET UP



Damper code	Dimension
	[mm]
TAI0110	D.100x28

DIVERTING PULLEYS AND GROOVES NUMBER x ROPES DIAMETER



Diverting Pulley		Max n°Grooves x D	Grooves Pitch
Dt [mm]	E [mm]	n° x mm	l [mm]
400	116	7xD8	14
450	116	6xD9	17
		6xD10	17
		6xD11	17
520	116	5xD12	19
		5xD13	19