Slewing Gearboxes

dinamic oil

Riduttori per rotazione / *Slewing Gearboxes:*

- Molteplicità di esecuzioni, la più ampia scelta del mercato.
- Costruzione modulare.
- Stadi di riduzione del catalogo standard.
  Con stadi da 1 a 6 si ha un ampio range di rapporti.
- Input per motori idraulici ed elettrici (vedi catalogo principale).
- Alte performance e lunga durata con diversi tipi di lubrificazione (olio, grasso).
- Possibilità di montaggio eccentrico per regolare il gioco pignone ralla.
- Esecuzioni speciali su richiesta, per pignoni non a catalogo allegare dati del pignone e della ralla.
- Possibilità di ottenere certificazioni dei maggiori enti Navali (DNV- GL, ABS, RINA, BV, Lloyd, CCS..) in base alla applicazione.
- Selezioni possibili in base alla classe F.E.M. oppure in base allo spettro di carico fornito dal cliente.
- Ruote dentate calcolate con ISO 6336, cuscinetti con ISO 281. Altri metodi di calcolo su richiesta.

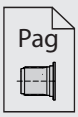
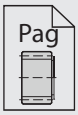
- *Multiple versions, the widest choice on the market.*
- *Modular design.*
- *Standard catalogue reduction stages. Wide range of gearbox ratios available from 1 single stage up to 6 stages.*
- *Input for hydraulic and electric motors (see main catalogue).*
- *High performance and long life-time with different types of lubrication (oil, grease).*
- *Output eccentric mounting possibility to adjust the pinion- ring gear backlash/clearance.*
- *Special design available on request. For pinion designs not available in the catalogue please provide pinion and ring gear complete data.*
- *Main naval bodies certifications available on demand (DNV-GL, ABS, RINA, BV, Lloyd, CCS...) depending on the application.*
- *Gearboxes selection in accordance with F.E.M. class or with the load spectrum provided by the customer.*
- *Gear wheels calculated with ISO 6336 and bearings with ISO 281. Other calculation methods available on request.*

Potenziali applicazioni / *Potential Applications:*

- Piattaforme aeree
- Riduttori da azimut & pitch per turbine eoliche
- Macchine posatubi
- Escavatori
- Gru edili e nastri trasportatori
- Carriponte e container
- Gru da cantieri e portuali
- Gru di carico e movimentazione merce
- Gru mobili
- Gru offshore
- Gru di bordo
- Frese da tunnel (TBM)
- Turbine eoliche

- *Access platforms*
- *Azimut & pitch drives for wind turbines*
- *Trencher*
- *Excavators*
- *Construction cranes and conveyors*
- *Container gantries*
- *Dockyard and harbour cranes*
- *Loading and cargo handling cranes*
- *Mobile cranes*
- *Offshore cranes*
- *Deck cranes*
- *Tunnel drilling machines (TBM)*
- *Wind turbines*

Definizioni tecniche / *Technical Definitions*:

Simboli *Symbols*	Unità di misura *Unit of measure*	Descrizione	*Description*
i_e	-	Rapporto di riduzione	*Reduction ratio*
T_2max Static (1) **(support)**	[Nm]	Coppia massima statica (100%R_s, coppia di snervamento)	*Max static torque* *(100%R_s, yield torque)*
T_2max Dynamic **(support)**	[Nm]	Coppia massima dinamica (90%R_s, coppia di snervamento)	*Max dynamic torque* *(90%R_s, yield torque))*
T_{2FEM} (2)	[Nm]	Coppia in uscita dell'ingranaggeria a secondo F.E.M. M5(L2-T5) a 15rpm	*Nominal gear output torque according to F.E.M. M5(L2-T5) at 15rpm*
	-	Alberi - rimando a pagina	*Shafts - reference page*
	-	Pignoni - rimando a pagina	*Pinions - reference page*

(1) La coppia massima statica **T_2max Static,** non può essere superata per alcuna ragione. Nel caso di superamento accidentale è necessaria una revisione completa del riduttore.

(2) Valori indicativi.
Valutare caso per caso, contattare l'Ufficio Tecnico Commerciale Dinamic Oil.

(Support) I valori di coppia sono relativi al solo supporto d'uscita. Devono essere confrontati con i valori di coppia massima dell'ingranaggeria (**T_2max** catalogo riduttori standard) e scelto il valore più basso. In caso di dubbio, contattare l'Ufficio Tecnico Commerciale Dinamic Oil..

(1) *The Max Static Torque **T_2max Static,** cannot be exceeded for any reason. In case of accidental excess, it is necessary a gearbox complete inspection.*

(2) *Indicative value.*
To evaluete case by case, contact Dinamic Oil's Technical Service.

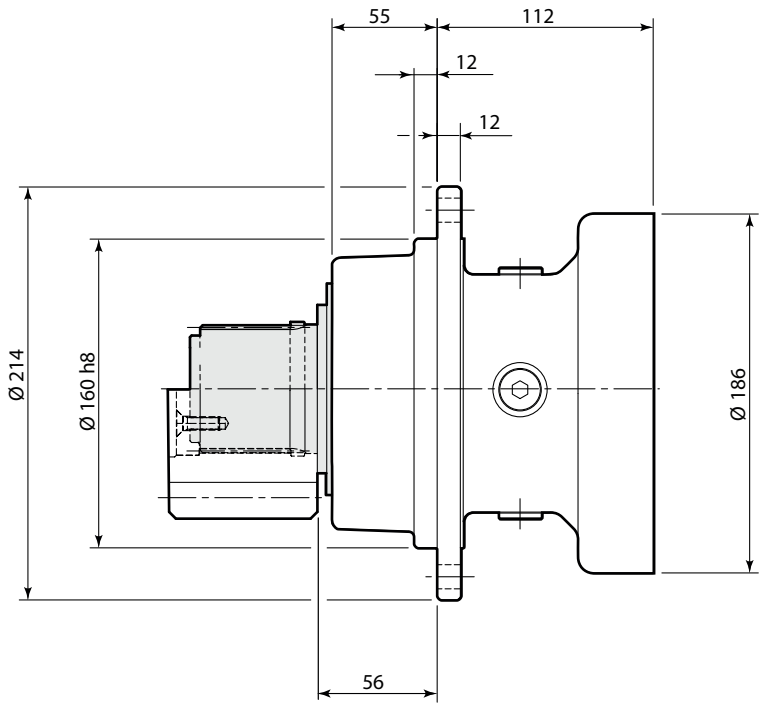
(Support) *The torque values are related to the output support only. They have to be compared with the max torque values of the gearset (**T_2max** on our standard gearbox catalogue) and the lower value has to be selected. In case of doubt, contact Dinamic Oil's Technical Service.*

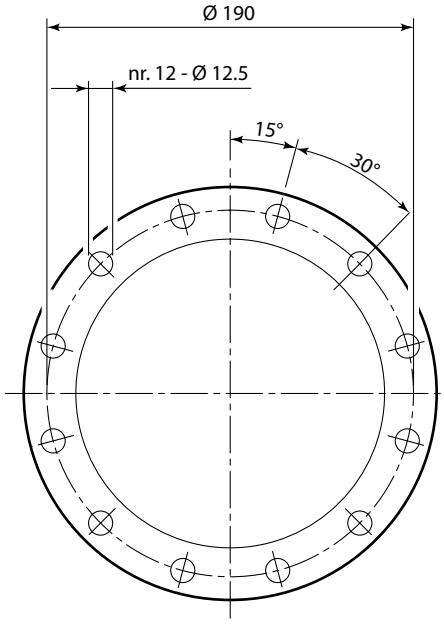
Tipo *Type*	Supporto *Support*	Albero *Shaft* [mm]	T_{2FEM} (L2 T5, n_2=15 rpm) [Nm]	i_e 2 std	i_e 3 std
RE 240	DBS	DIN 5482 B58x53	2470 ÷ 4350	13÷ 39	46 ÷ 281
	Tecc				
RE 310	NR	DIN 5482 B58x53	2310 ÷ 5420	13 ÷ 54	44 ÷ 321
	NR3				
	Tecc				
	T6				
	T8				
	T18	DIN 5482 B70x64			
	DBS	DIN 5482 B58x53			
RE 510	NR	DIN 5482 B58x53	4620 ÷ 10800	13 ÷ 54	44 ÷ 321
	NR3				
	Tecc				
	T6				
	T8				
	T18	DIN 5482 B70x64			
	DBS	DIN 5482 B58x53			
RE 610	T18	DIN 5482 B70x64	8200 ÷ 12400	14 ÷ 34	50 ÷ 245
	DBS				
	DBS2				
RE 810	Tecc	DIN 5482 B70x64	7360 ÷ 15800	13 ÷ 51	53 ÷ 314
	TRecc				
RE 1020	TR	DIN 5482 B80x74	10800 ÷ 22800	13 ÷ 5	53÷ 314
	T6ecc				
	DBS				
	Z				
	DBS4				
	DBT				
RE 1520	Tecc	DIN 5482 B80x74	18800 ÷ 33500	15 ÷ 47	51 ÷ 278
	DBS				
	Z	DIN 5482 B100x94			
	DBT	DIN 5482 B80x74			
RE 2000	Tecc	DIN 5482 B80x74	20900 ÷ 41300	14 ÷ 39	48 ÷ 202
	DBS				
	Z	DIN 5482 B100x94			
	DBT	DIN 5482 B80x74			
RE 2520	DBS	DIN 5482 B100x94	31100 ÷ 48100	14 ÷ 47	32 ÷ 51
	Z				
	Z1				
RE 3000	DBS	DIN 5482 B100x94	44500 ÷ 65500	14 ÷ 32	51 ÷ 242
	Z				
	Z1				
RE 3510	Z2	DIN 5480 W120x3	47500 ÷ 71800	14 ÷ 44	49 ÷ 332
	Z3				
	DBS1	DIN 5480 W150x5			
	HR	DIN 5480 W120x3			
RE 4800	Z2	DIN 5480 W120x3	71000 ÷ 105000	13 ÷ 32	47 ÷ 242
	Z3				
	DBS1	DIN 5480 W150x5			
	HR	DIN 5480 W120x3			
RE 6010	Z1	DIN 5480 W150x5	64200 ÷ 122000	14 ÷ 40	64 ÷ 252
	Z4				
RE 8010	Z1	DIN 5480 W150x5	126500 ÷ 163500	15 ÷ 29	57 ÷ 200
	Z4				

Tipo *Type*	Supporto *Support*	Albero *Shaft* [mm]	T_{2FEM} (L2 T5, n_2=15 rpm) [Nm]	i_e	
				3 std	4 std
GB 12010 *	Contattare il Vostro referente in DINAMIC OIL. *Please refer to your DINAMIC OIL representative.*		130000 ÷ 195000	53 ÷ 222	210 ÷ 1508
GB 16000 *	Contattare il Vostro referente in DINAMIC OIL. *Please refer to your DINAMIC OIL representative.*		183500 ÷ 297000	50 ÷ 165	181 ÷ 1241
GB 21000 *	Contattare il Vostro referente in DINAMIC OIL. *Please refer to your DINAMIC OIL representative.*		277000 ÷ 360000	58 ÷ 140	233 ÷ 766
GB 26000 *	Contattare il Vostro referente in DINAMIC OIL. *Please refer to your DINAMIC OIL representative.*		352000 ÷ 460000	58 ÷ 108	210 ÷ 745

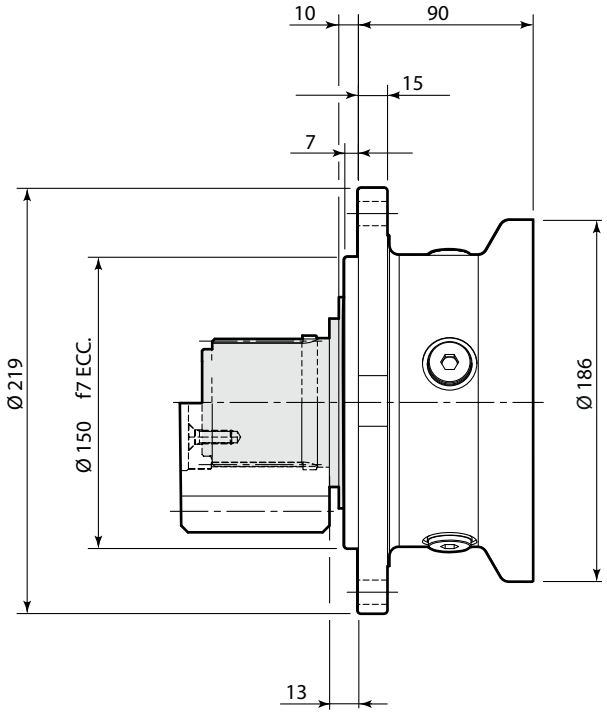
* Per ulteriori informazioni contattare l'Ufficio Tecnico DINAMIC OIL / *For ather informations, please contact Technical Department DINAMIC OIL*

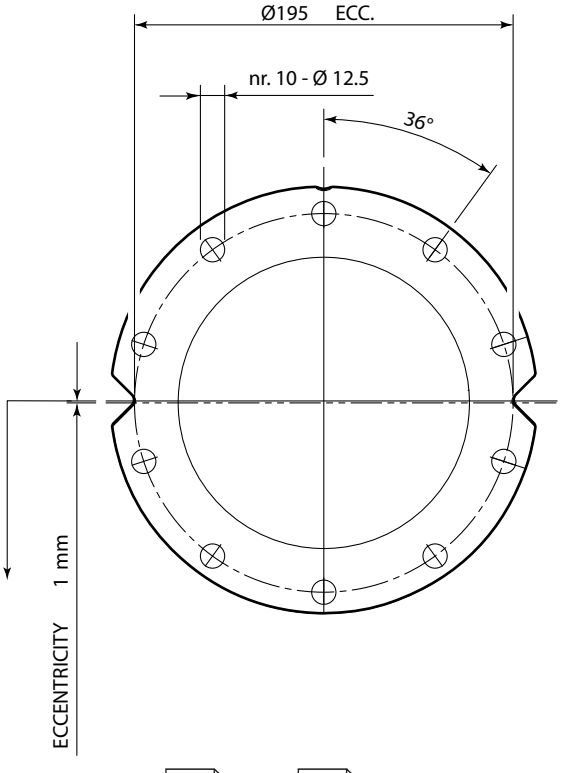
Supporto / *Support*: DBS





Supporto / *Support*: Tecc





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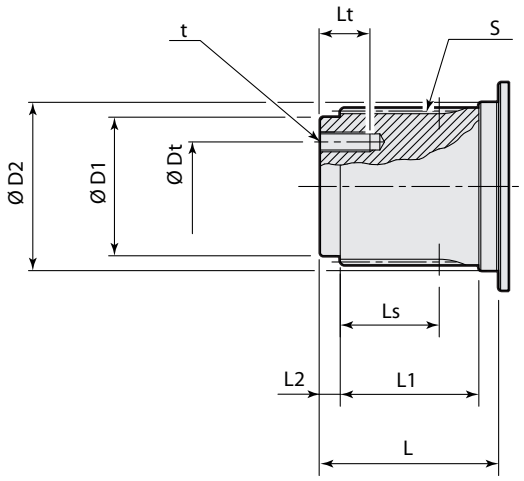
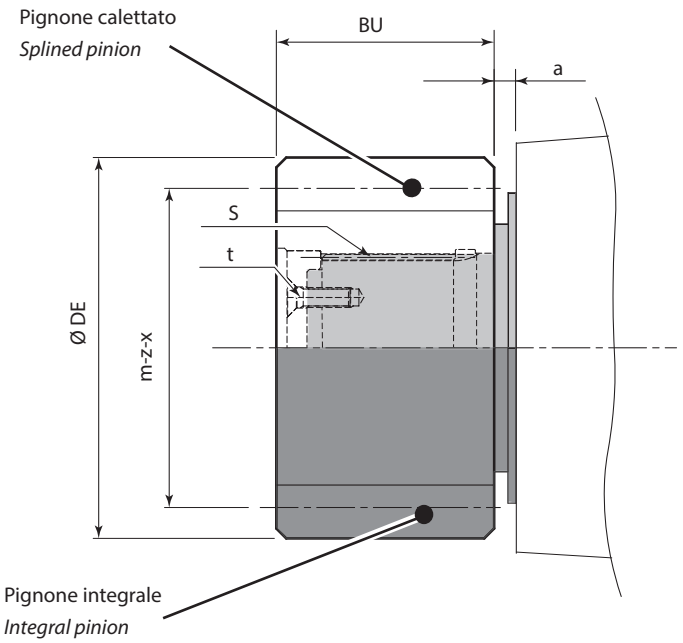
Albero scanalato / *Splined shaft:*



Supporto *Support*	ØD1	ØD2	S	Ls	L	L1	L2	t	ØDt	Lt
	[mm]									
DBS	50 h7	60 h6	DIN5482 B58x53	37	68.3	50	8	M10 (n° 3)	32	21
Tecc	50 h7	60 h6	DIN5482 B58x53	37	68.3	50	8	M10 (n° 3)	32	21

Pignoni / *Pinions*:

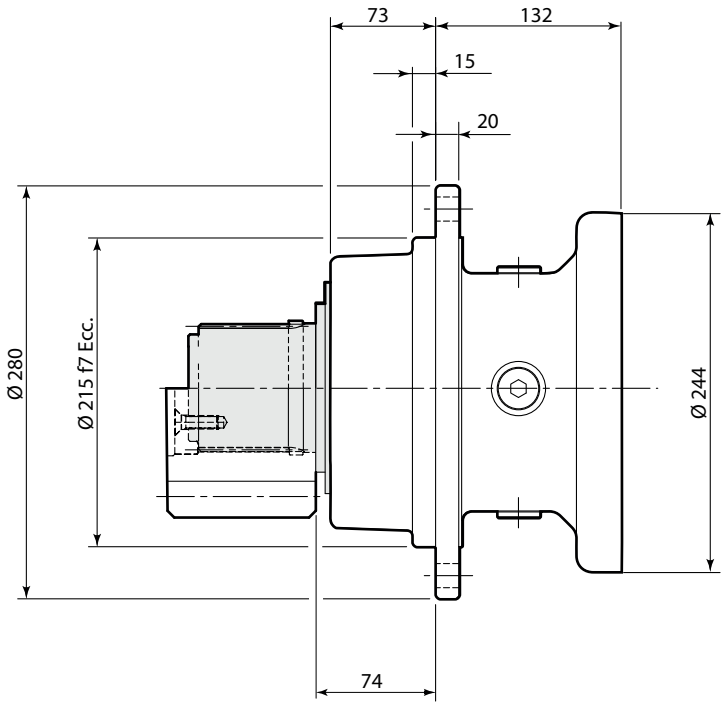


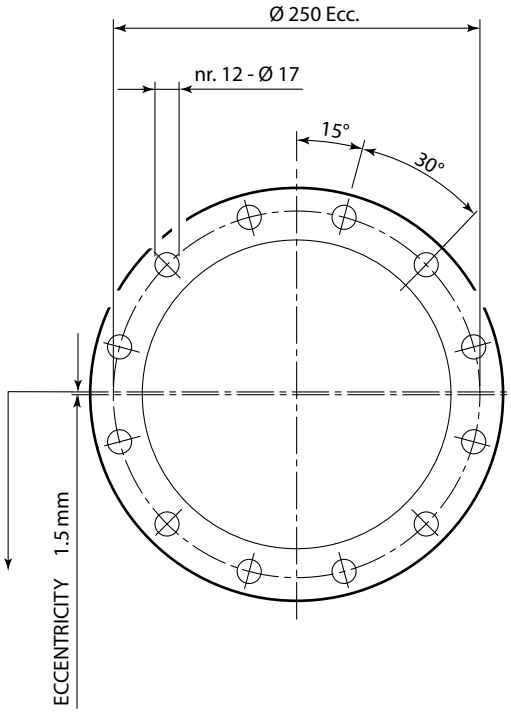
Supporto *Support*	m	z	x	ØDE	BU	a	S	t	Tmax	
	[mm]								Static [Nm]	Dynamic [Nm]
DBS	6	15	0.5	108	88	2	-	-	6000	5400
	8	9	0.5	95.2	96	0.5	-	-	5000	4500
	10	11	0.5	137	68	2	-	-	6300	5670
	14	13	0.5	224	70	2	DIN5482 B58x53	M10 (n° 3)	6300	5670
Tecc	6	18	0	120	70	13.5	DIN5482 B58x53	M10 (n° 3)	6000	5400
	8	10	0.5	104	80	13.5	-	-	5000	4500
	8	14	0.5	136	80	23.5	DIN5482 B58x53	M10 (n° 3)	6300	5670
	10	13	0	150	80	3.5	DIN5482 B58x53	M10 (n° 3)	6300	5670
	14	13	0,5	224	70	2	DIN5482 B58x53	M10 (n° 3)	6500	5670

Pignone calettato / *Splined pinion*
Pignone integrale / *Integral pinion*

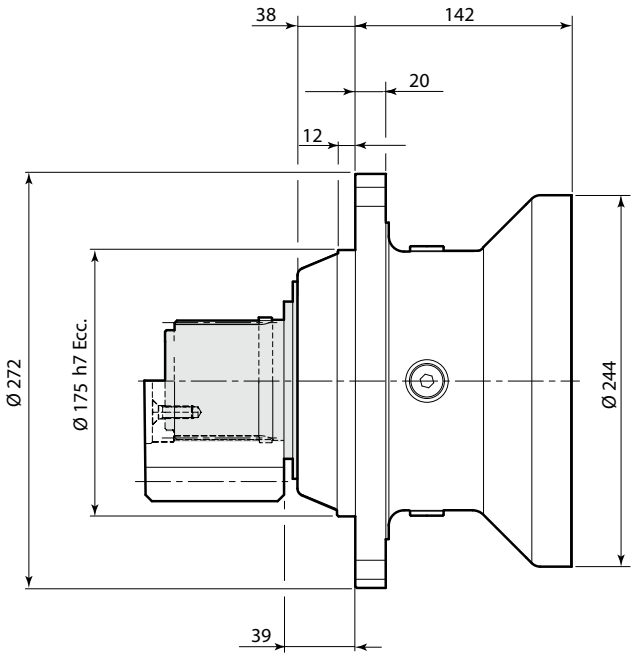
T_{2FEM}
2310 ÷ 5420 Nm
4620 ÷ 10800 Nm

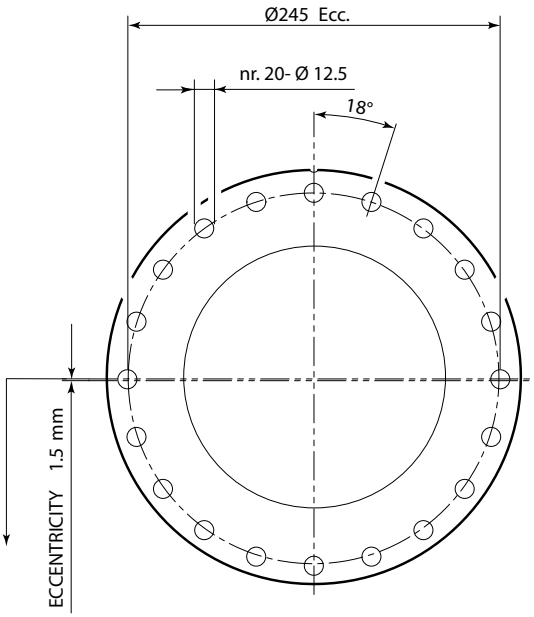
Supporto / *Support*: DBS





Supporto / *Support*: Tecc





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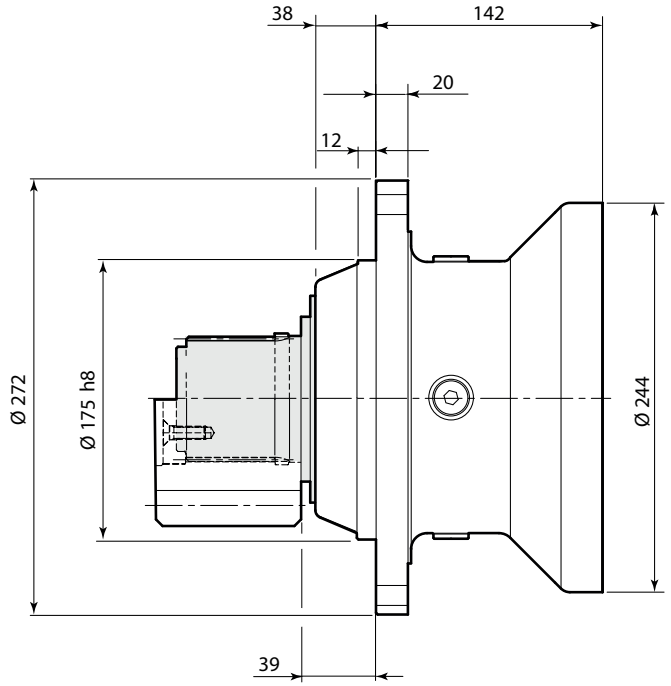
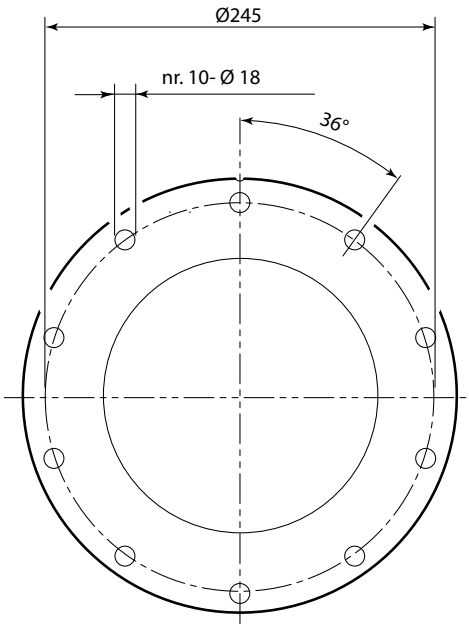
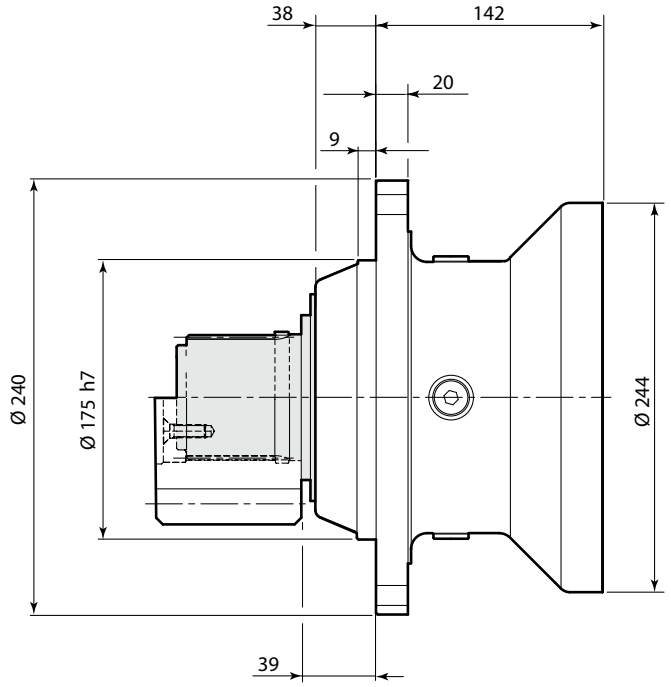
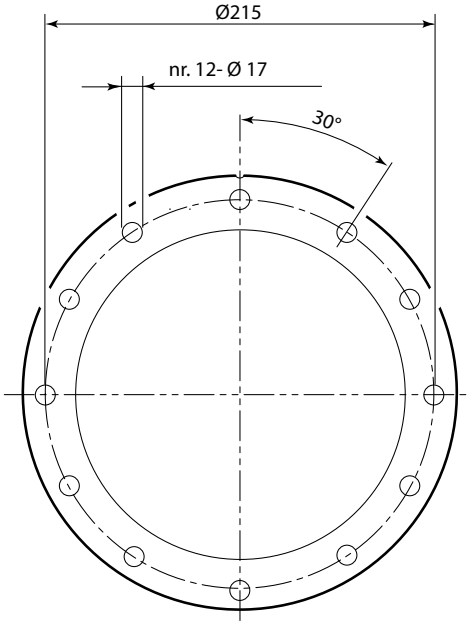
Supporto / *Support*: T6





Supporto / *Support*: T8





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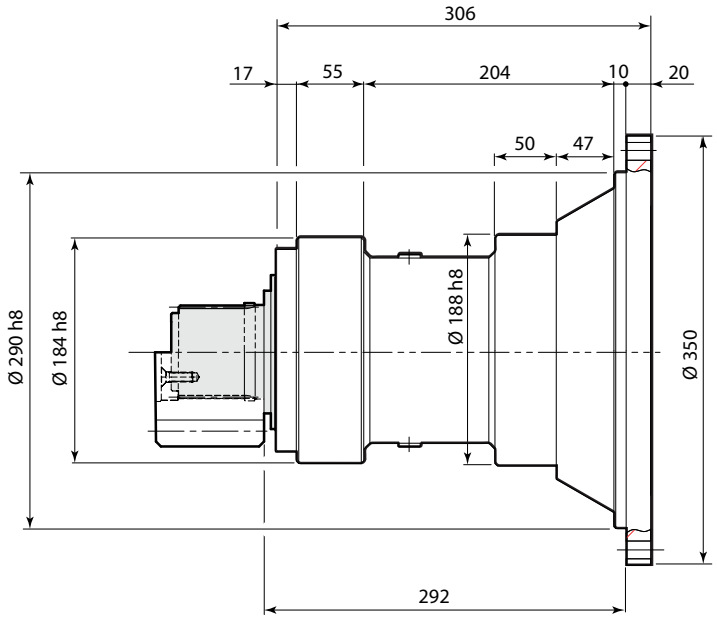
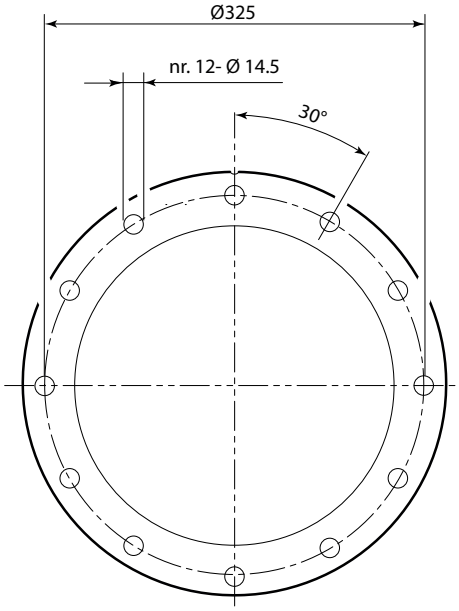
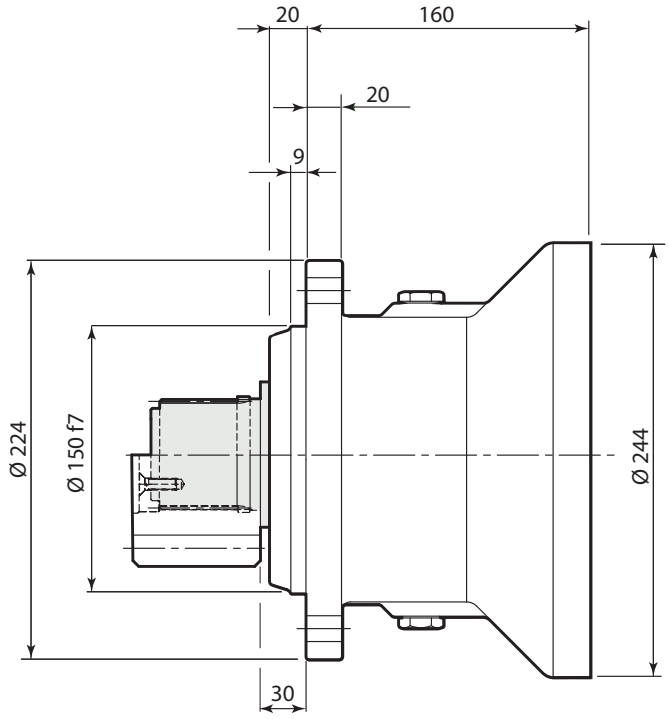
T_{2FEM}
2310 ÷ 5420 Nm
4620 ÷ 10800 Nm

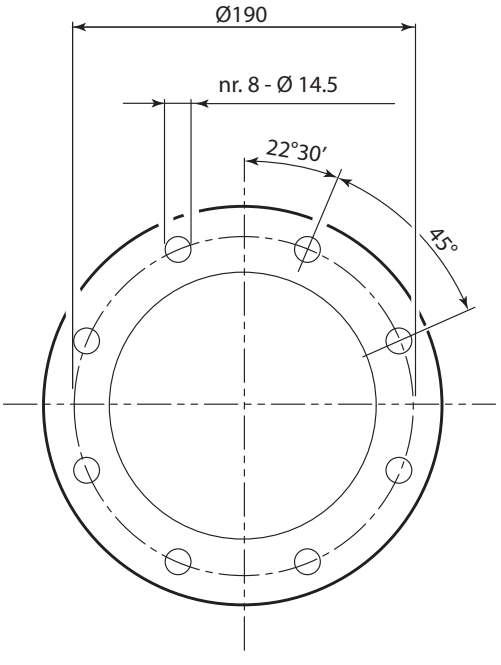
Supporto / *Support*: T18





Supporto / *Support*: NR





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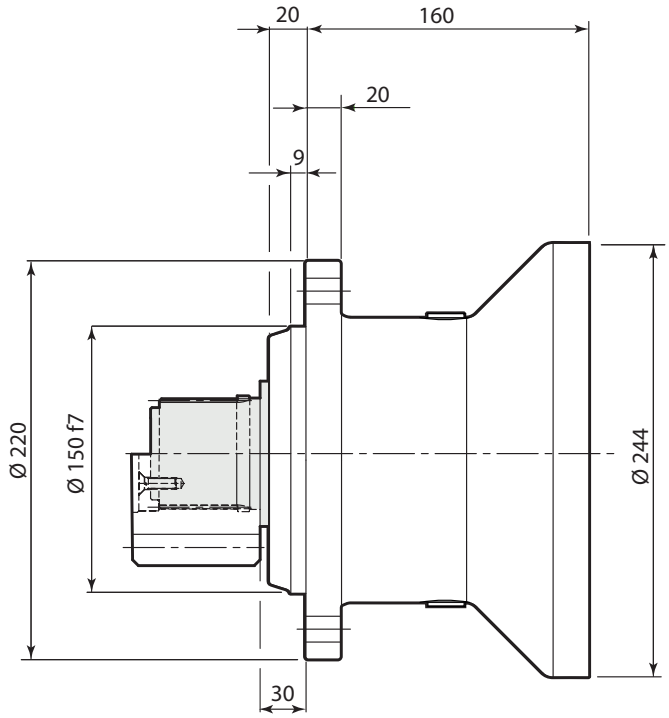
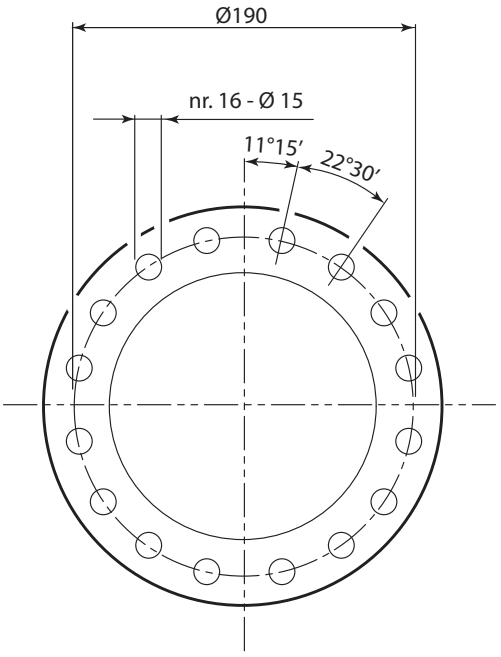
Supporto / *Support*: NR3





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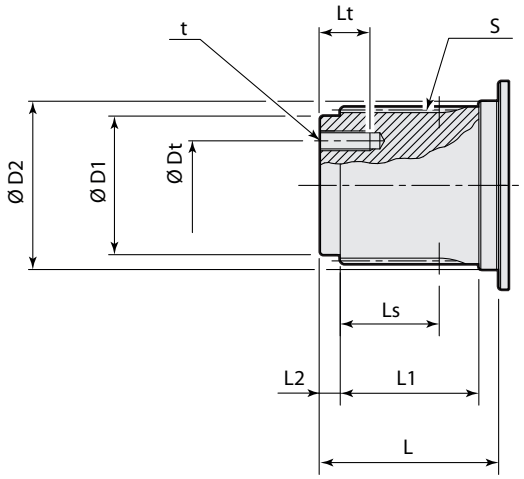
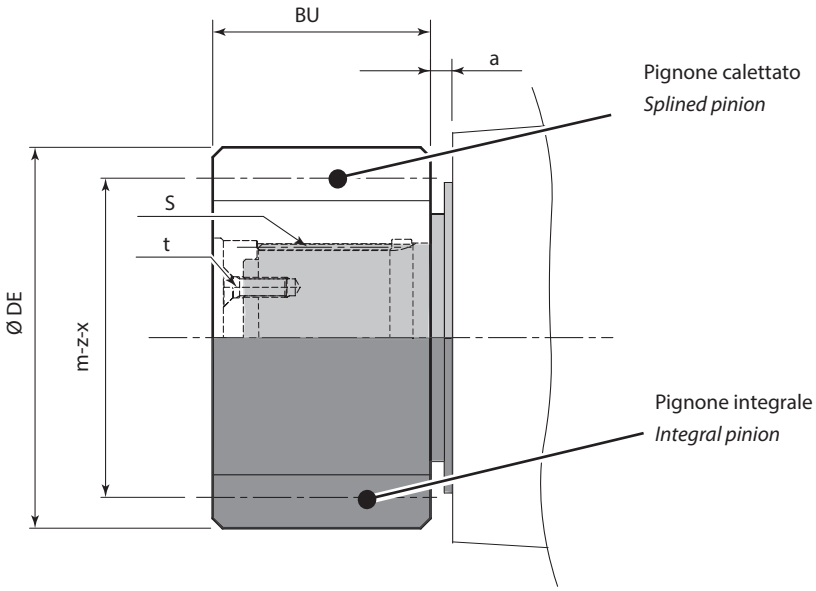
Albero / Shaft:



Supporto *Support*	ØD1	ØD2	S	Ls	L	L1	L2	t	ØDt	Lt
	[mm]									
DBS	50 h7	60 h6	DIN5482 B58x53	46	78	60	8	M10 (n° 3)	32	20
Tecc	50 h7	60 h6	DIN5482 B58x53	46	78	60	8	M10 (n° 3)	32	20
T6	50 h7	60 h6	DIN5482 B58x53	46	78	60	8	M10 (n° 3)	32	20
T8	50 h7	60 h6	DIN5482 B58x53	46	78	60	8	M10 (n° 3)	32	20
T18	62 F7	72 F7	DIN5482 B70x64	51	90	70	10	M10 (n° 3)	40	22
NR	50 h7	60 h6	DIN5482 B58x53	37	68.5	50	8	M10 (n° 3)	32	20
NR3	50 h7	60 h6	DIN5482 B58x53	37	68.5	50	8	M10 (n° 3)	32	20

Pignoni / *Pinions*:

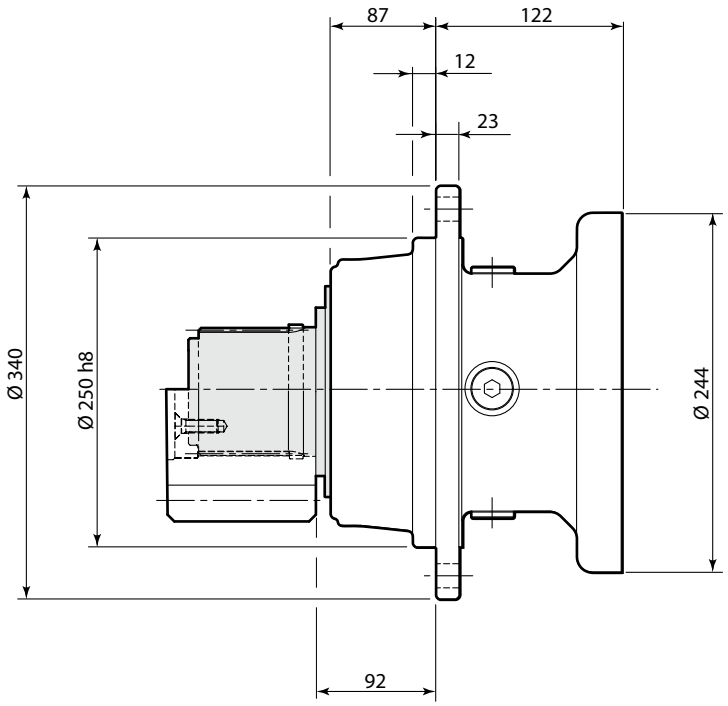


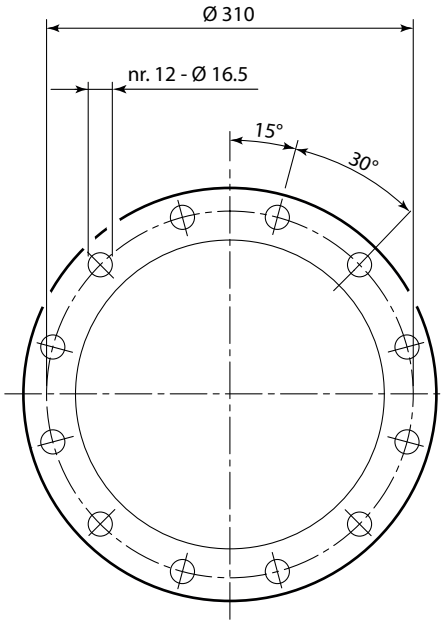
Pignone calettato / *Splined pinion*

Pignone integrale / *Integral pinion*

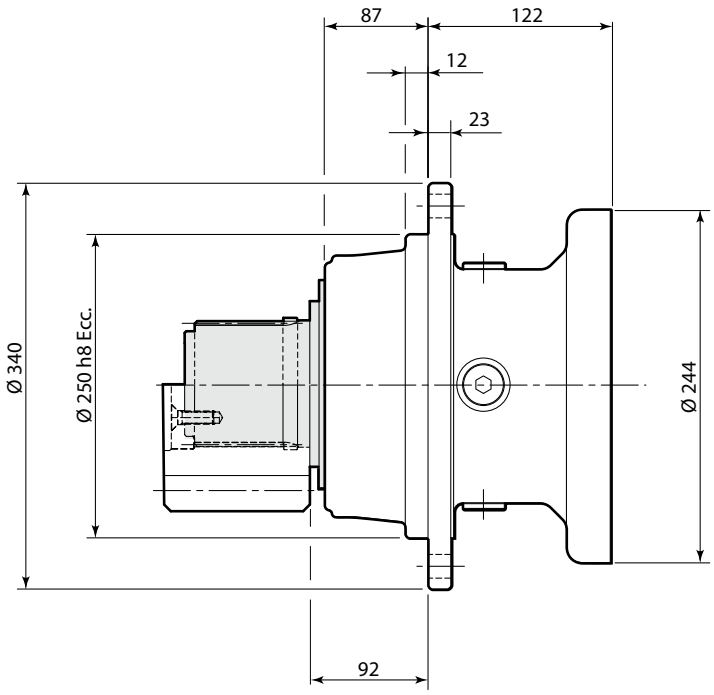
Supporto *Support*	m	z	x	ØDE	BU	a	S	t	Tmax Static [Nm]	Tmax Dynamic [Nm]
	[mm]									
DBS	8	11	0.5	112.2	78	7	-	-	10500	9450
	9	13	0.5	144	75	7	-	-	10500	9450
	10	11	0.5	137	78	7	-	-	10500	9450
	10	15	0	170	90	10	-	-	10500	9450
	12	10	0.5	155	95	7	-	-	10500	9450
	12	11	0.5	166.8	80	7	-	-	10500	9450
Tecc	6	13	0.65	97.2	65	27	-	-	6900	6210
	8	11	0.5	111.2	88	4	-	-	8300	7470
	8	15	0	136	75	11	DIN5482 B58x53	M10 (n° 3)	10400	9360
	10	10	0.5	130	90	3	-	-	9500	8550
	14	14	0.5	236.6	100	1	DIN5482 B58x53	M10 (n° 3)	10500	9450
T6 T8	10	13	0.6	161	86	17	-	-	10500	9450
	10	14	0.5	168	80	2.5	-	-	10500	9450
	10	12	0.55	150.5	93	3	-	-	10500	9450
	12	10	0.5	155	108	5.5	-	-	10500	9450
T18	8	14	0	128	79.5	16	DIN5482 B70x64	M10 (n° 3)	10500	9450
	10	14	0.32	166.4	90	15			13200	11880
	12	13	0.5	192	80	21			13200	11880
	14	15	0.5	250.6	105	6			13200	11880
NR NR3	5	22	0	120	50	27.5	DIN5482 B58x53	M10 (n° 3)	9250	8325
	8	11	0.5	110.8	79	10.5	-	-	9250	8325
	8	16	0.5	149.5	73	20.5	-	-	9250	8325
	10	11	0.5	139	100	12	-	-	9250	8325
	10	12	0.5	149	90	19.5	-	-	9250	8325

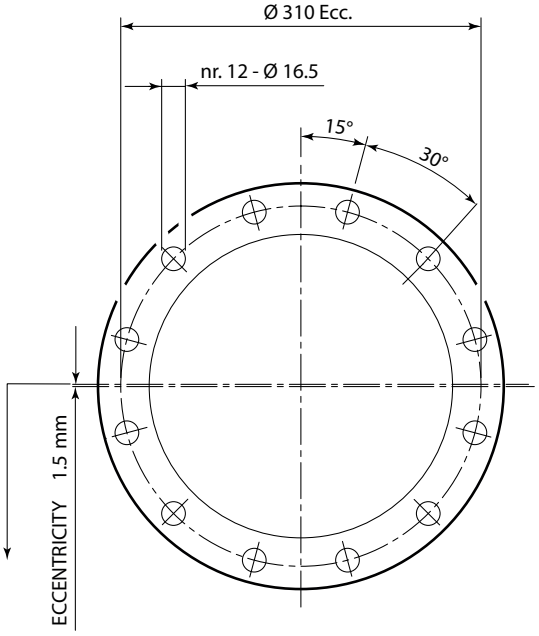
Supporto / *Support*: DBS





Supporto / *Support*: DBS2





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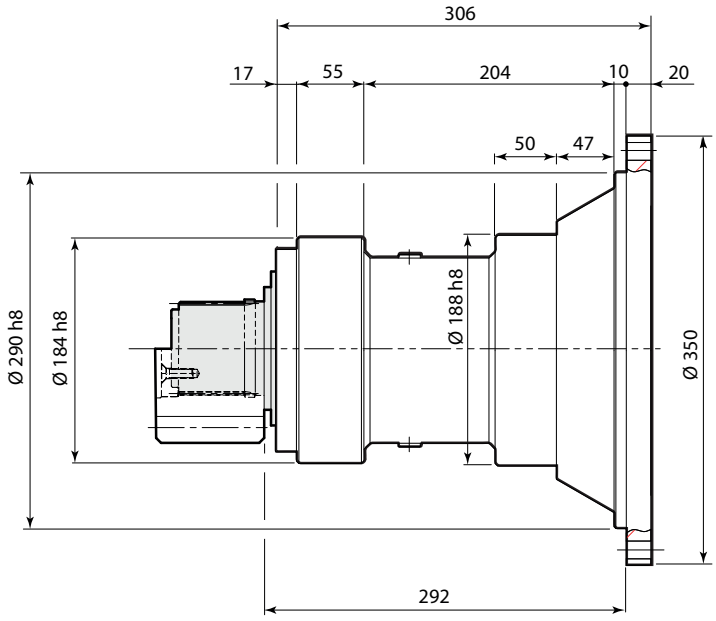
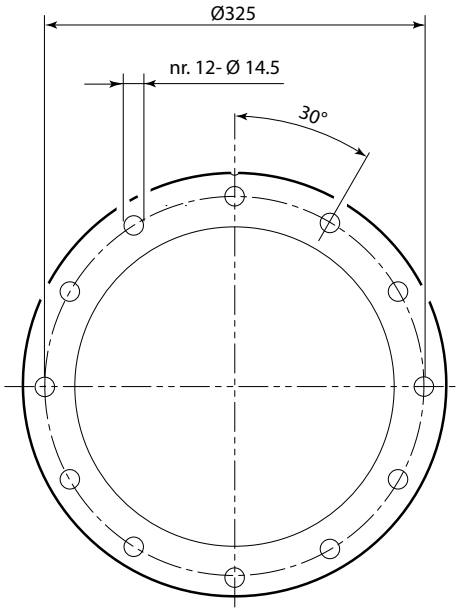
Supporto / *Support*: T18

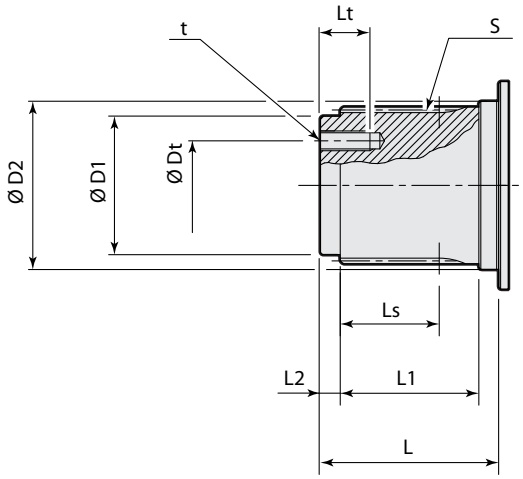




B-15

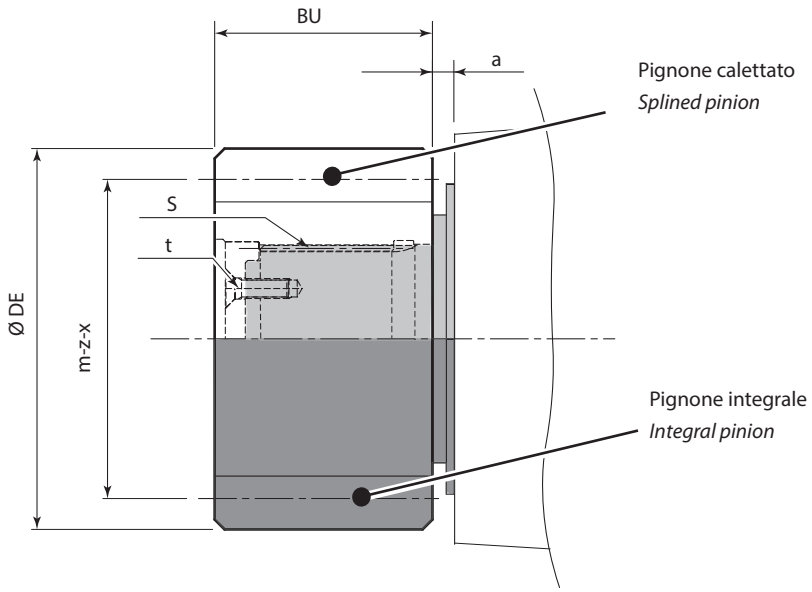
B-16

Albero / Shaft:



Supporto *Support*	ØD1	ØD2	S	Ls	L	L1	L2	t	ØDt	Lt
	[mm]									
DBS	62 h7	72 h6	DIN5482 B70x64	51	90	70	10	M10 (n° 3)	40	22
DBS2	62 h7	72 h6	DIN5482 B70x64	51	90	70	10	M10 (n° 3)	40	22
T18	62 f7	72 f7	DIN5482 B70x64	51	90	70	10	M10 (n° 3)	40	22

Pignoni / *Pinions*:



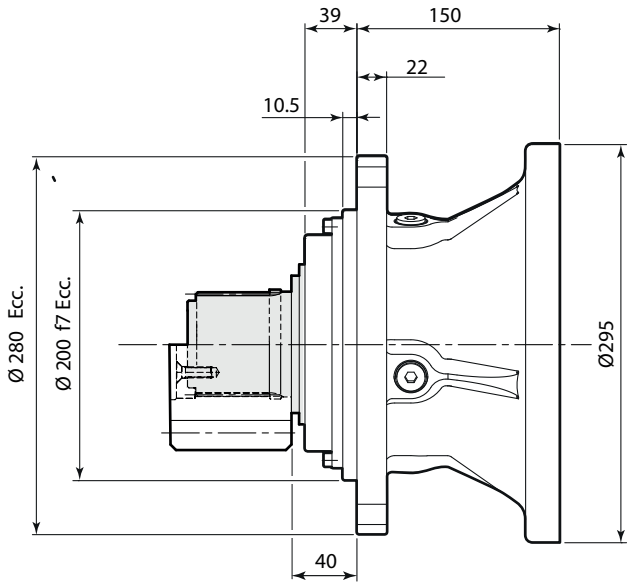
Supporto *Support*	m	z	x	ØDE	BU	a	S	t	Tmax	
	[mm]								Static [Nm]	Dynamic [Nm]
DBS DBS2	8	14	0	128	79.5	15	DIN 5482 B70x64	M10 (n° 3)	17500	15750
	10	12	0.5	150	78	5	-	-	21500	19350
	10	13	0.5	160	85	19	DIN 5482 B70x64	M10 (n° 3)	21000	18900
	10	14	0.5	170	90	5	-	-	24000	21600
	12	10	0	144	100	5	-	-	18500	16650
	12	12	0.5	180	100	5	DIN 5482 B70x64	M10 (n° 3)	24000	21600
	12	14	0.5	204	105	5	-	-	24000	21600
	14	11	0.5	194.6	105	4	-	-	24000	21600
T18	8	20	0	176	115	15	DIN 5482 B70x64	M10 (n° 3)	14500	13050
	10	11	0.681	141	85	6	-	-	12000	10800
	12	10	0.5	156	120	6	-	-	12000	10800
	12	11	0.525	168.61	110	6	-	-	13500	12150

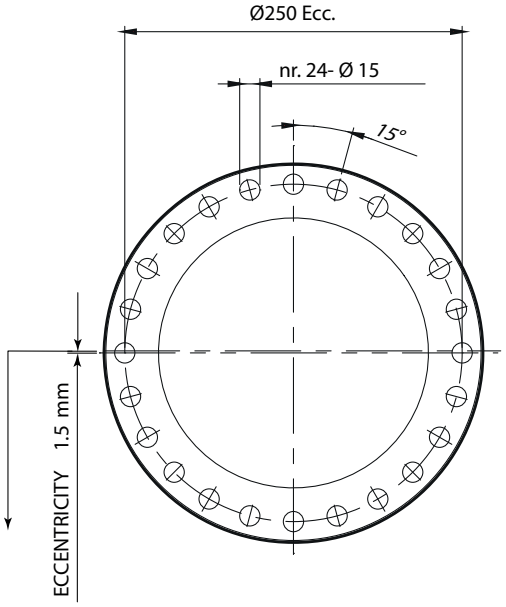
Pignone calettato / *Splined pinion*

Pignone integrale / *Integral pinion*

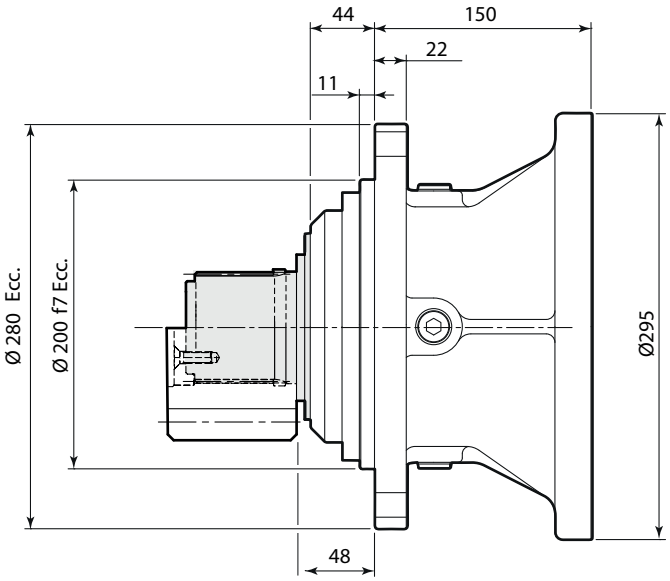
T_{2FEM} 7360 ÷ 15800 Nm

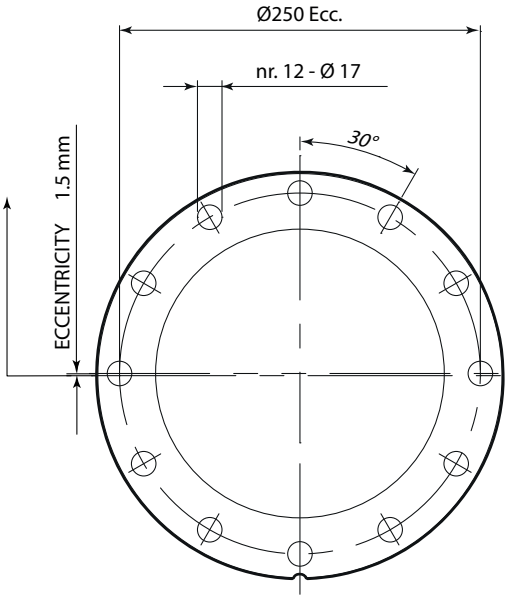
Supporto / *Support*: Tecc





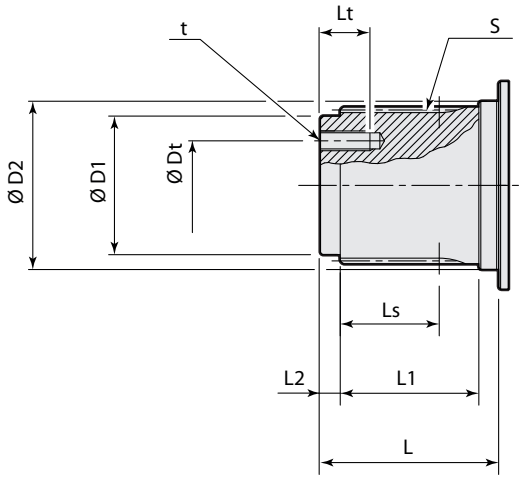
Supporto / *Support*: TRecc





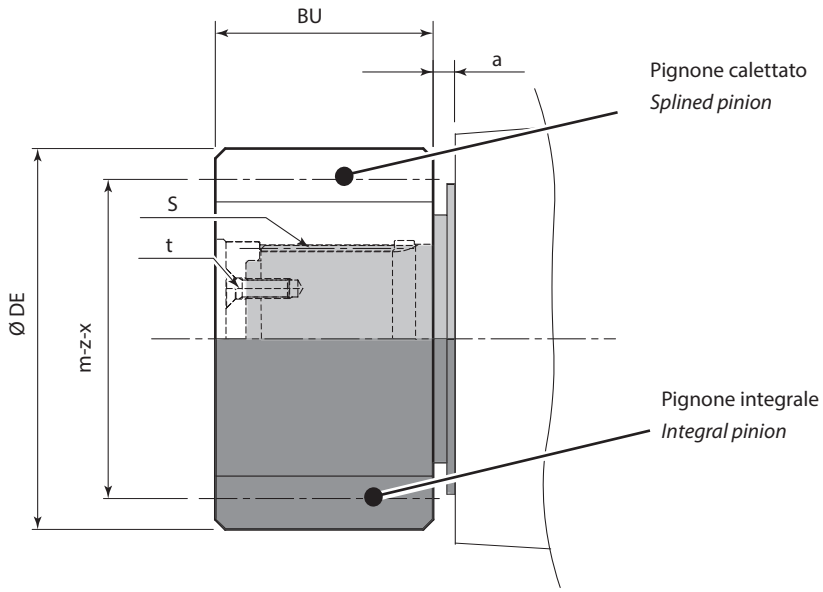
B-18
B-19

Albero / Shaft:



Supporto *Support*	ØD1	ØD2	S	Ls	L	L1	L2	t	ØDt	Lt
	[mm]									
Tecc	62 f7	72 f7	DIN5482 B70x64	51	90	70	10	M10 (n° 3)	40	22
TRecc										

Pignoni / *Pinions*:



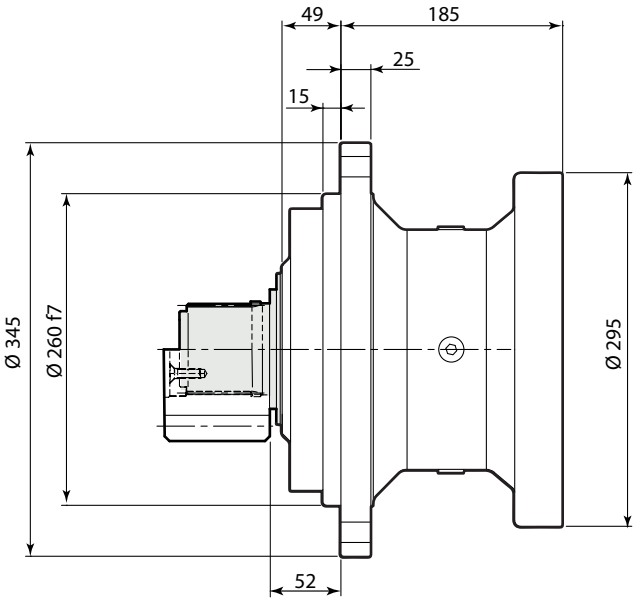
Supporto *Support*	m	z	x	ØDE	BU	a	S	t	Tmax	
	[mm]								Static [Nm]	Dynamic [Nm]
Tecc	8	14	0	128	79.5	11.5	DIN 5482 B70x64	M10 (n° 3)	10500	9450
	9	15	0	152.64	101	6.5	-	-	12500	11250
	10	14	0.5	169	90	1.5	DIN 5482 B70x64	M10 (n° 3)	14500	13050
	12	13	0.5	192	95	32.5			13500	12150
	14	15	0.5	250.6	105	1.5			21000	18900
TRecc	8	15	0.3	140	80	13.5	DIN 5482 B70x64	M10 (n° 3)	15200	13680
	10	13	0.5	160	90	5.5	-	-	17800	16020
	10	18	0	198	80	5.5	-	-	23800	21420
	12	12	0.5	180	100	3.5	DIN 5482 B70x64	M10 (n° 3)	19000	17100
	12	14	0.5	199	100	33.5			16000	14400

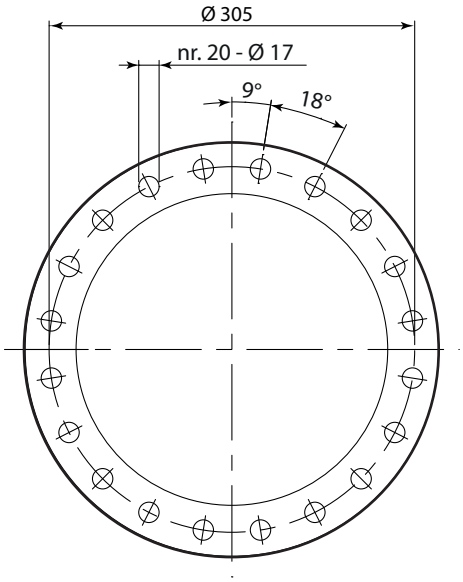
Pignone calettato / *Splined pinion*

Pignone integrale / *Integral pinion*

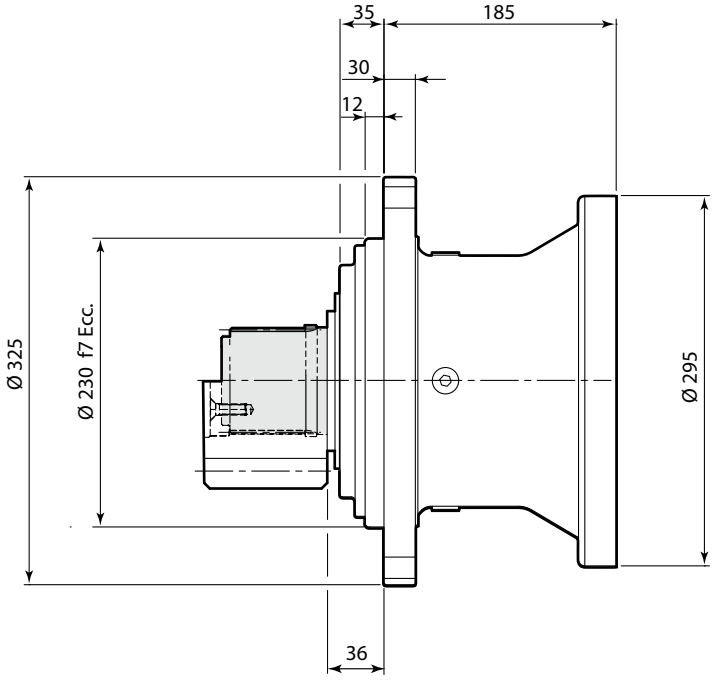
T_{2FEM} 10800 ÷ 22800 Nm

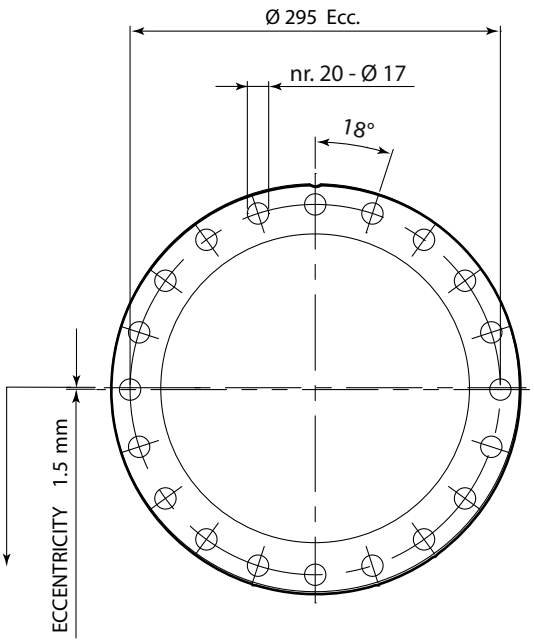
Supporto / *Support*: TR





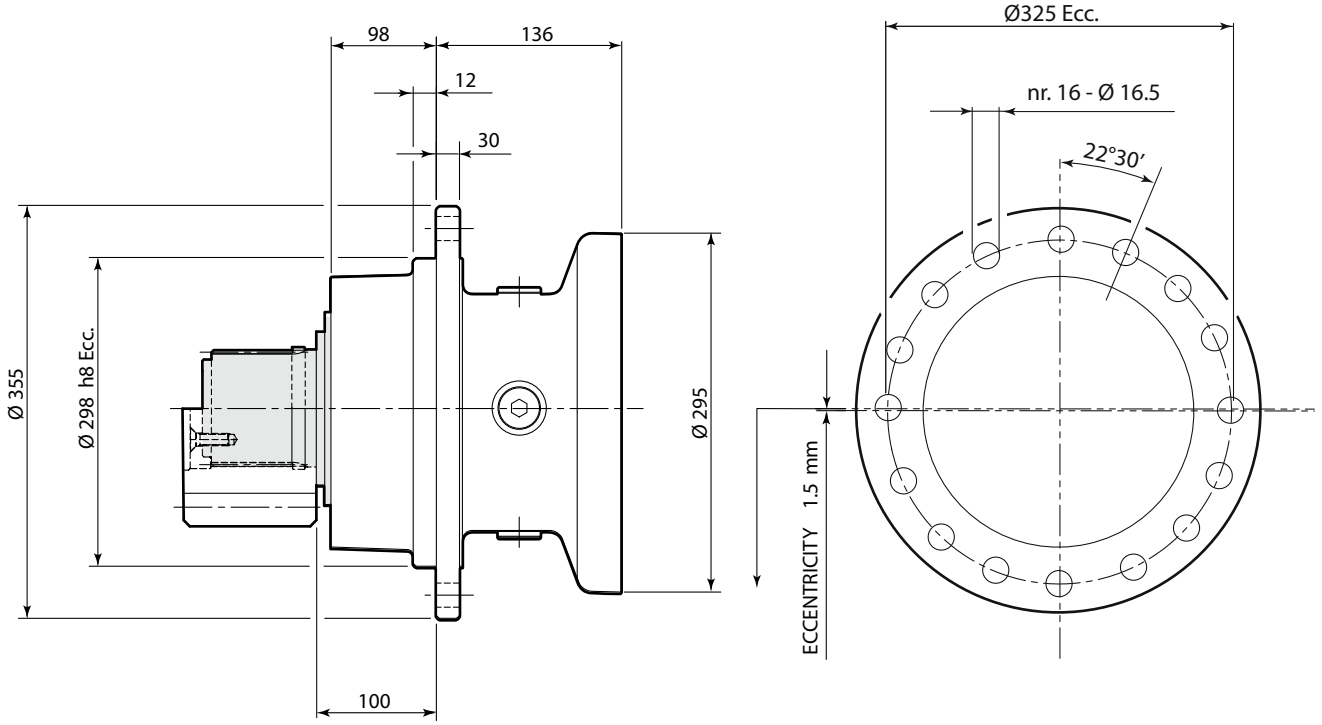
Supporto / *Support*: T6ecc



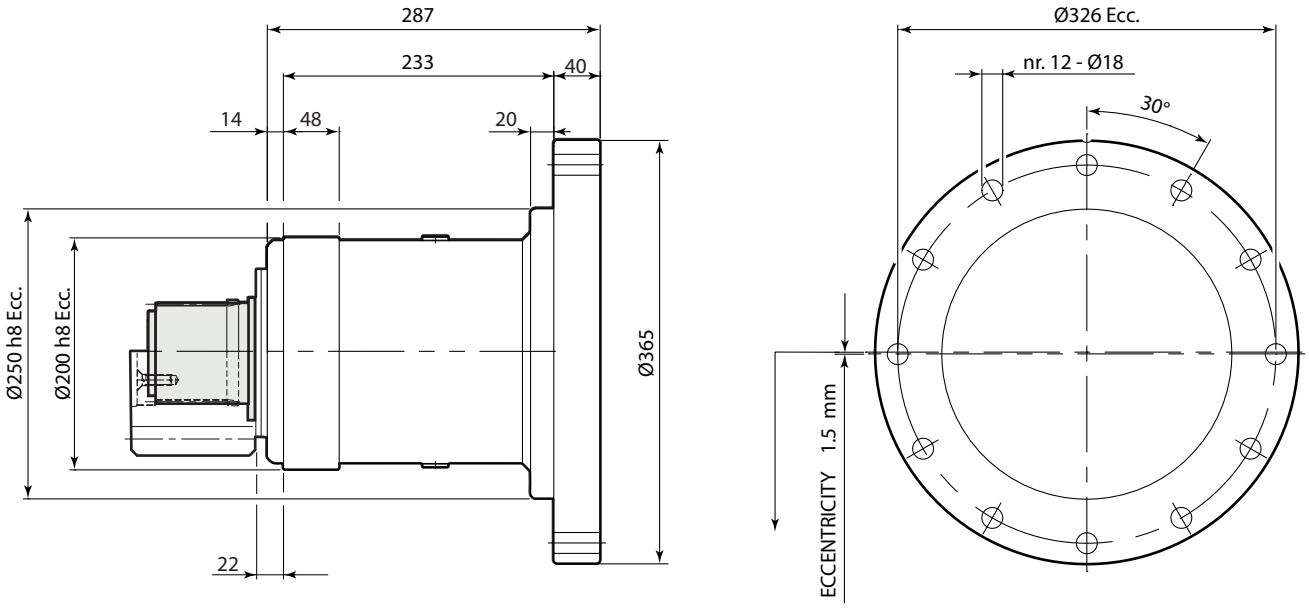


B-24
B-25

Supporto / *Support*: DBS

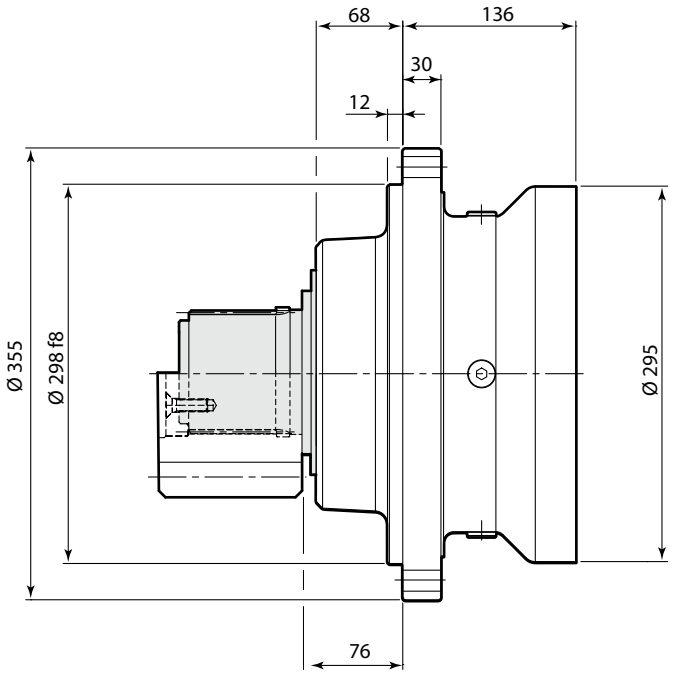


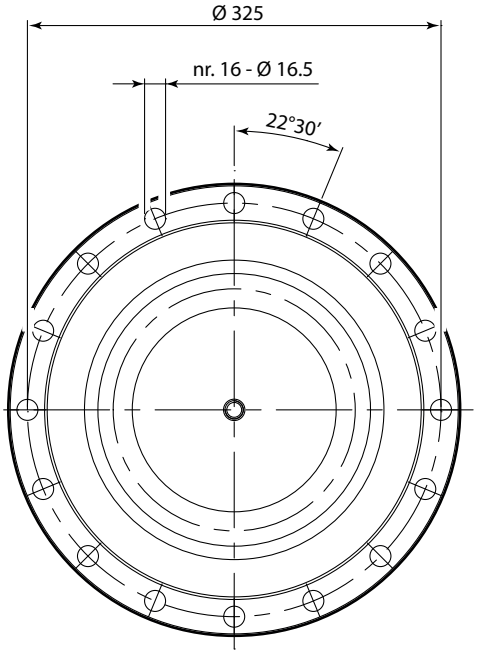
Supporto / *Support*: Z



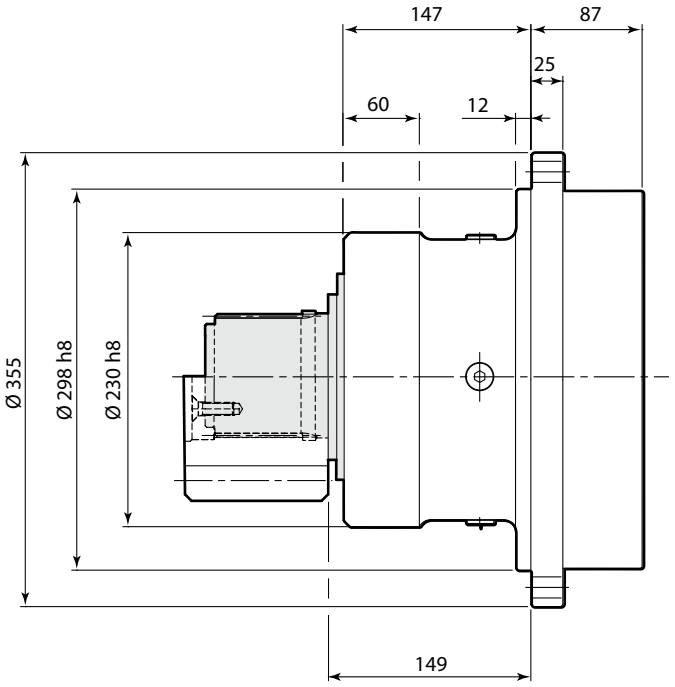
B-24 B-25

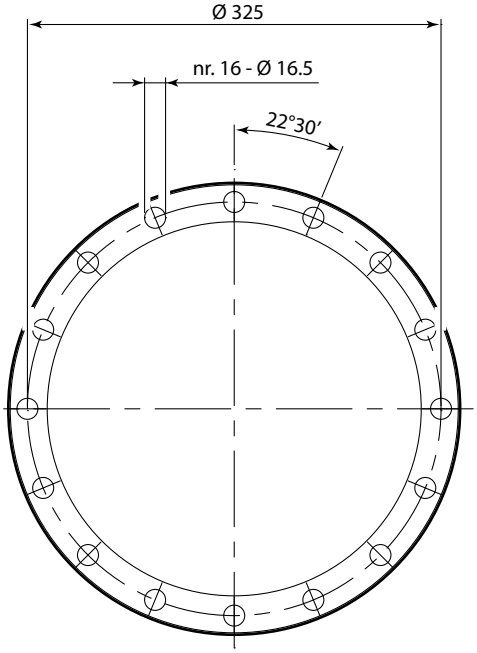
Supporto / *Support*: DBS4





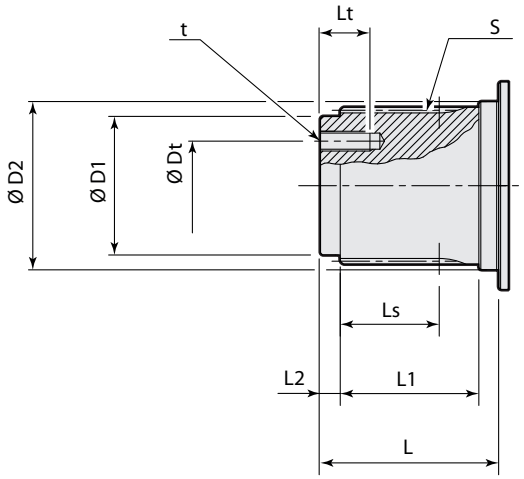
Supporto / *Support*: DBT





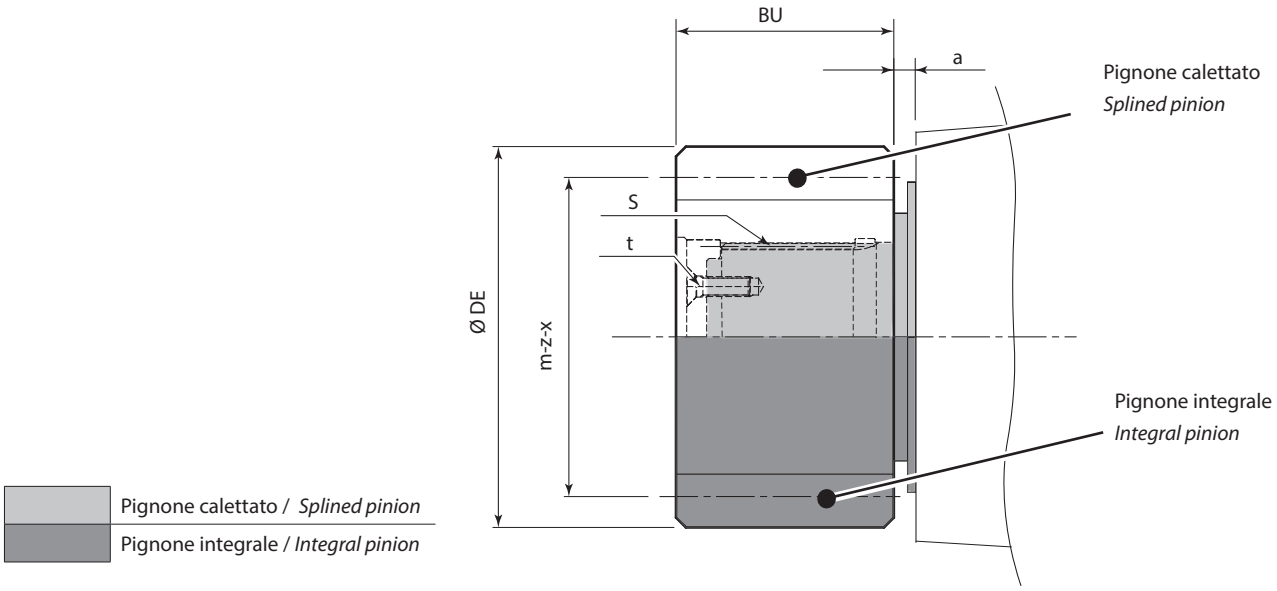
B-24
B-25

Albero / Shaft:



Supporto *Support*	ØD1	ØD2	S	Ls	L	L1	L2	t	ØDt	Lt
	[mm]									
TR	70 f7	85 f7	DIN 5482 B80x74	50	90	70	10	M10 (n° 3)	45	25
T6ecc	70 f7	85 f7	DIN 5482 B80x74	50	90	70	10	M10 (n° 3)	45	25
DBS	70 f7	85 f7	DIN 5482 B80x74	50	90	70	10	M10 (n° 3)	45	25
Z	70 f7	85 f7	DIN 5482 B80x74	50	90	70	10	M10 (n° 3)	45	25
DBS4	70 f7	85 f7	DIN 5482 B80x74	50	90	70	10	M10 (n° 3)	45	25
DBT	70 f7	85 f7	DIN 5482 B80x74	50	90	70	10	M10 (n° 3)	45	25

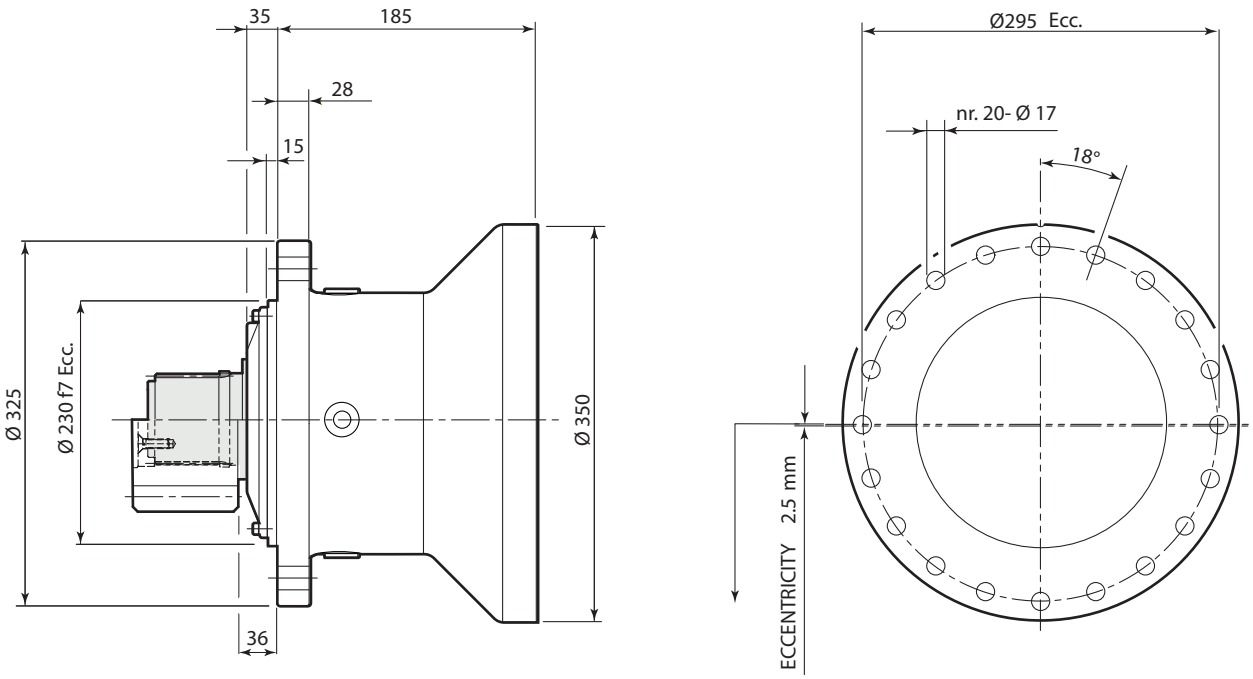
Pignoni / *Pinions*:



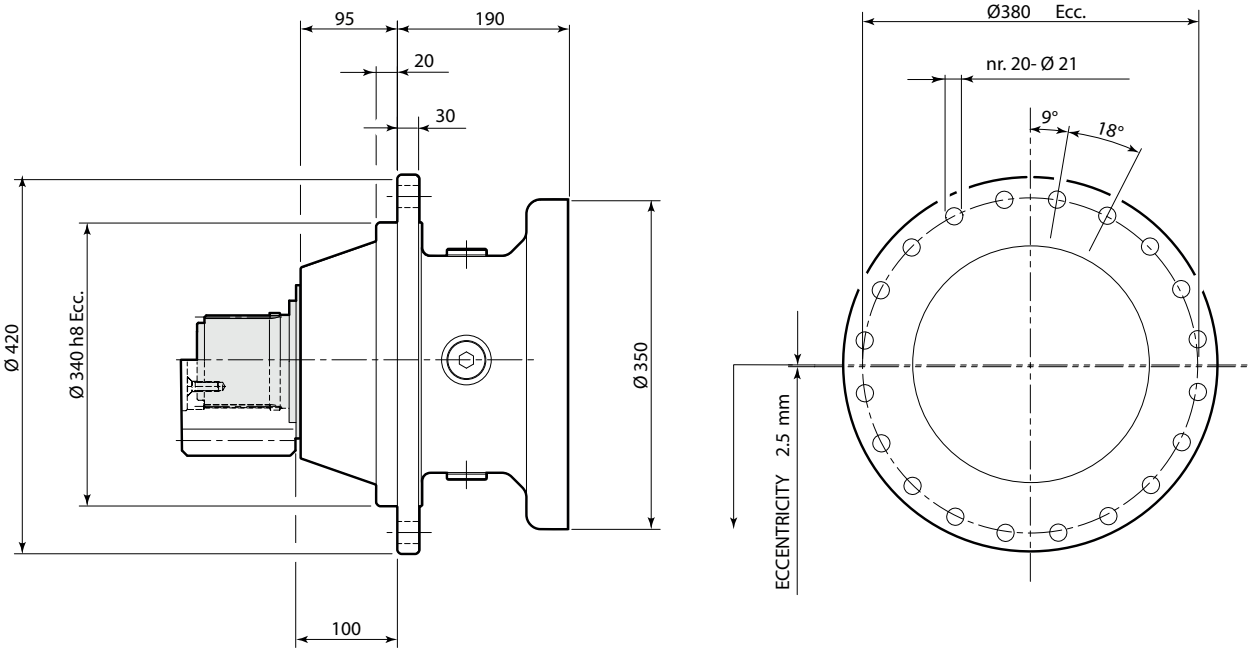
Supporto *Support*	m	z	x	ØDE	BU	a	S	t	Tmax Static [Nm]	Tmax Dynamic [Nm]
	[mm]									
TR	8	17	0.3	156	101	13	DIN 5482 B80x74	M10 (n° 3)	18300	16470
	10	18	0.5	208	71	3	-	-	28000	25200
	12	11	0.5	167	90	33	DIN 5482 B80x74	M10 (n° 3)	16500	14850
	14	12	0.5	208.6	140	3			22500	20250
T6ecc	10	11	0.5	140	80	35	-	-	12500	11250
	10	12	0.5	150	110	14.5	-	-	14000	12600
	12	16	0	214	90	6	DIN 5482 B80x74	M10 (n° 3)	22500	20250
	14	12	0.5	210	120	1			20500	18450
	16	12	0.5	240	136	6			22000	19800
DBS DBT	8	17	0	152	101	12	DIN 5482 B80x74	M10 (n° 3)	17000	15300
	10	15	0.5	179	90	27			19000	17100
	10	14	0.5	169	90	8	-	-	20000	18000
	12	11	0.5	166.8	85	2	-	-	19500	17550
	12	12	0.5	177.33	88	2	-	-	21300	19170
	12	12	0.65	182.4	120	2	-	-	20000	18000
	12	14	0.5	199	111	2	DIN 5482 B80x74	M10 (n° 3)	23000	20700
	12	17	0	228	90	11			26000	23400
	14	11	0.5	194.6	115	2			21000	18900
	14	12	0.5	208.6	140	2			21500	19350
	14	11	0.5	192.36	88	2	-	-	23000	20700
	16	10	0.5	204.8	120	2	DIN 5482 B80x74	M10 (n° 3)	22000	19800
	16	12	0.5	240	135	2	-	-	25000	22500
	18	13	0.5	288	120	2	DIN 5482 B80x74	M10 (n° 3)	31500	28350
Z	10	12	0.2	144	90	21	-	-	19500	17550
	12	11	0.5	167	100	28	DIN 5482 B80x74	M10 (n° 3)	20500	18450
	12	17	0	228	90	19			31500	28350
	14	12	0.5	210	135	8			26000	23400
	16	10	0.5	204.8	120	8			27500	24750
DBS4	8	17	0.3	156	101	18	DIN 5482 B80x74	M10 (n° 3)	15500	13950
	10	14	0.32	162.4	90	21			16000	14400
	12	15	0.425	214.2	110	8	-	-	21500	19350
	14	15	0.544	253	100	2	-	-	27000	24300
	16	12	0.5	240	100	8	DIN 5482 B80x74	M10 (n° 3)	24000	21600
	18	10	0.5	234	157	8			19500	17550

T_{2FEM}
18800 ÷ 33500 Nm
20900 ÷ 41300 Nm

Supporto / *Support*: Tecc

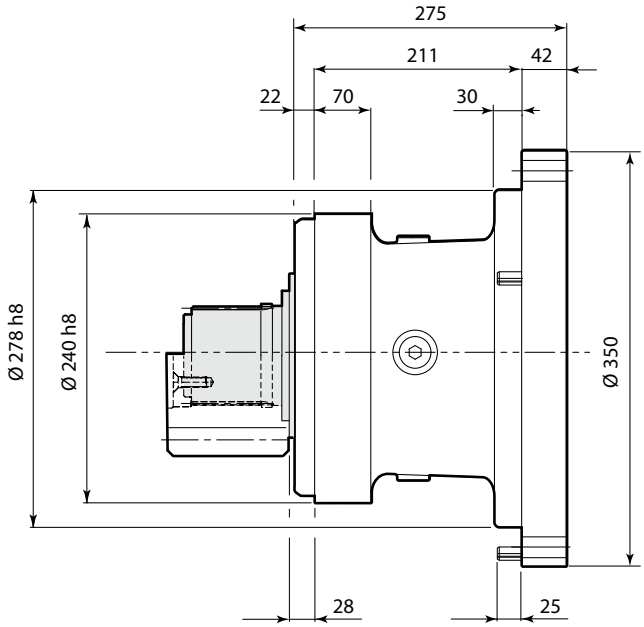


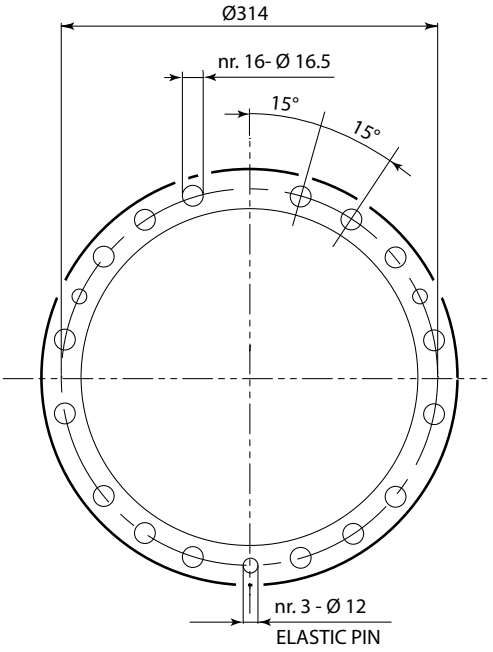
Supporto / *Support*: DBS



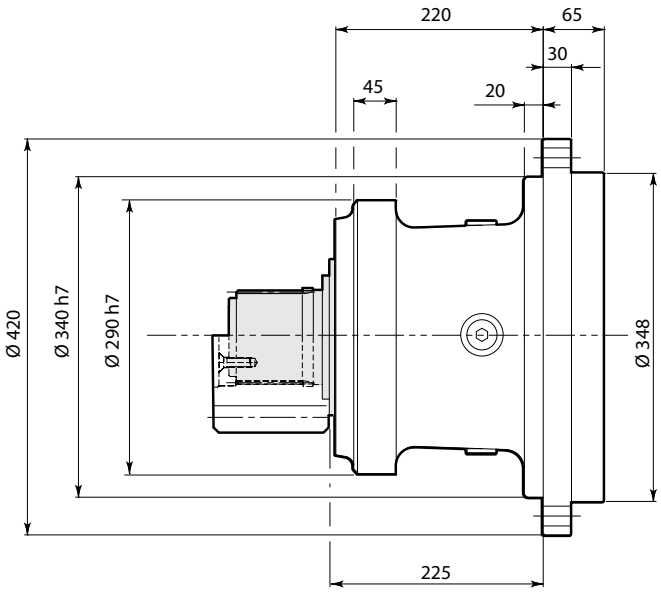
B-29
B-30

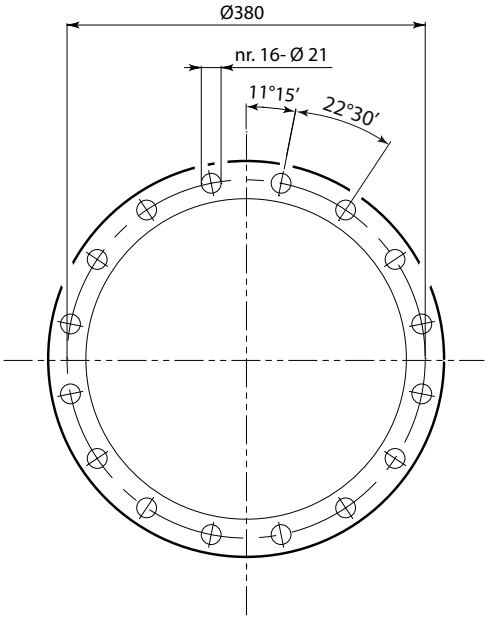
Supporto / *Support*: Z





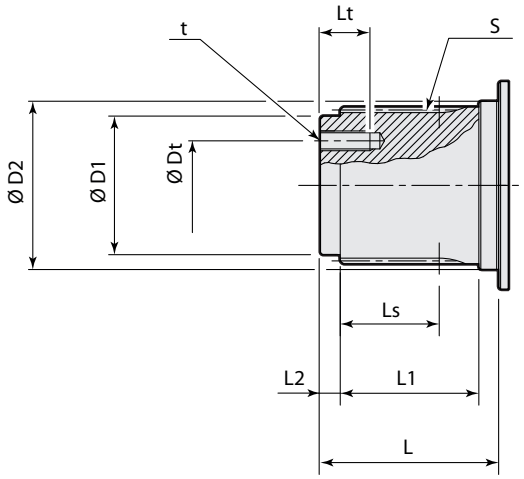
Supporto / *Support*: DBT





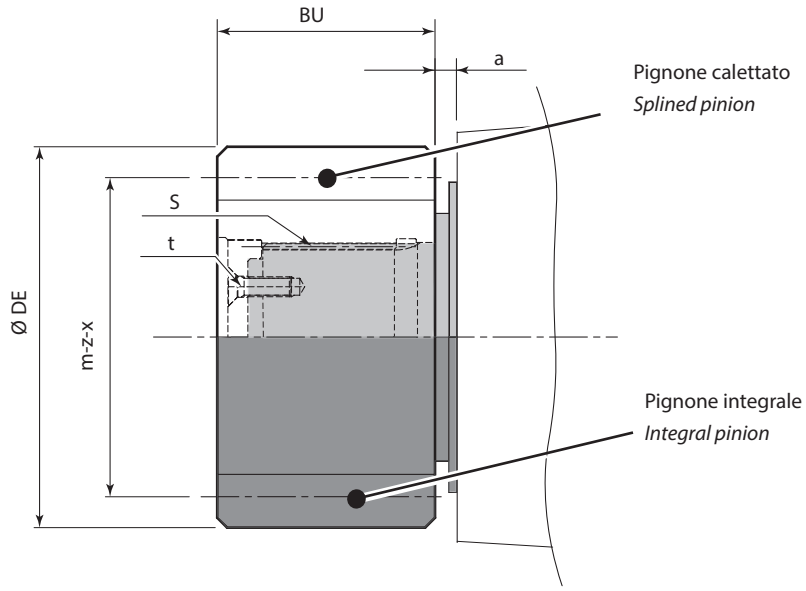
B-29
B-30

Albero / Shaft:



Supporto *Support*	ØD1	ØD2	S	Ls	L	L1	L2	t	ØDt	Lt
	[mm]									
Tecc	70 f7	85 f7	DIN 5482 B80x74	50	90	70	10	M10 (n° 3)	45	25
DBS	70 f7	85 f7	DIN 5482 B80x74	50	90	70	10	M10 (n° 3)	45	25
Z	85 h7	105 h7	DIN 5482 B100x94	65	110	85	12	M10 (n° 3)	52	30
DBT	70 f7	85 f7	DIN 5482 B80x74	50	90	70	10	M10 (n° 3)	45	25

Pignoni / *Pinions*:



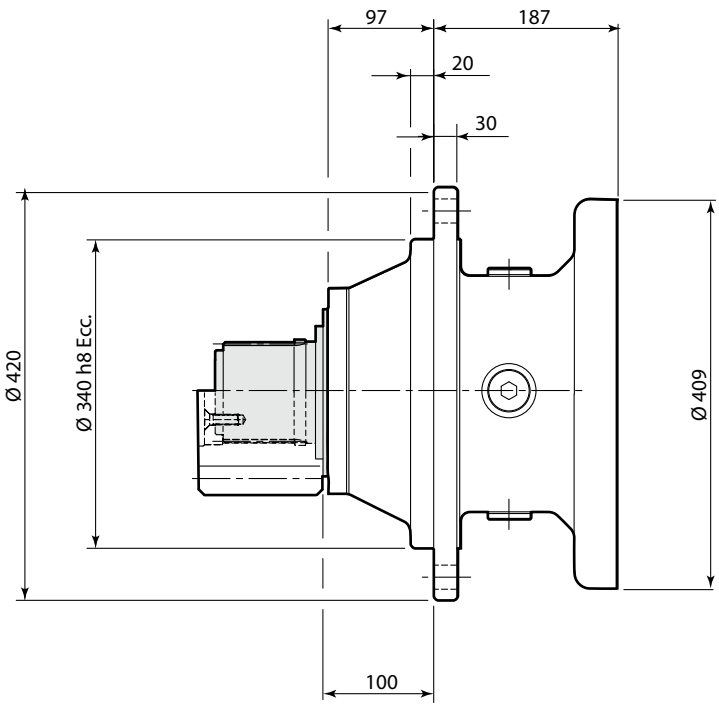
Supporto *Support*	m	z	x	ØDE	BU	a	S	t	Tmax	
	[mm]								Static [Nm]	Dynamic [Nm]
Tecc	8	17	0.3	156	101	11	DIN 5482 B80x74	M10 (n° 3)	16700	15030
	10	15	0	170	90	26			16000	14400
	12	12	0.5	180	100	1			18700	16830
	12	15	0.5	214.8	110	23			20000	18000
	14	11	0.5	192.3	97	1			20000	18000
	16	10	0.5	204.8	115	1			20000	18000
DBS DBT	10	14	0.32	162.4	103	18	DIN 5482 B80x74	M10 (n° 3)	28500	25650
	10	14	0.5	169	90	5	-	-	31500	28350
	12	12	0.5	180	90	5	-	-	33000	29700
	14	11	0.5	192.3	97	5	-	-	34700	31230
	14	13	0.5	222.6	100	5	-	-	34800	31320
	16	10	0.5	203.2	120	5	-	-	34700	31230
	16	12	0.5	240	135	25	-	-	34800	31320
	16	13	0.2754	248.8	165	5	-	-	34800	31320
	18	12	0.5	266	138	7	-	-	34800	31320
	18	10	0.5	230.4	138	5	-	-	34800	31320
Z	10	18	0	200	100	21	-	-	29000	26100
	14	13	0.5	222.6	122	6	DIN 5482 B100x94	M10 (n° 3)	33000	29700
	16	10	0.5	206	120	6	-	-	30000	27000
	20	11	0.5	277	140	6	-	-	34800	31320

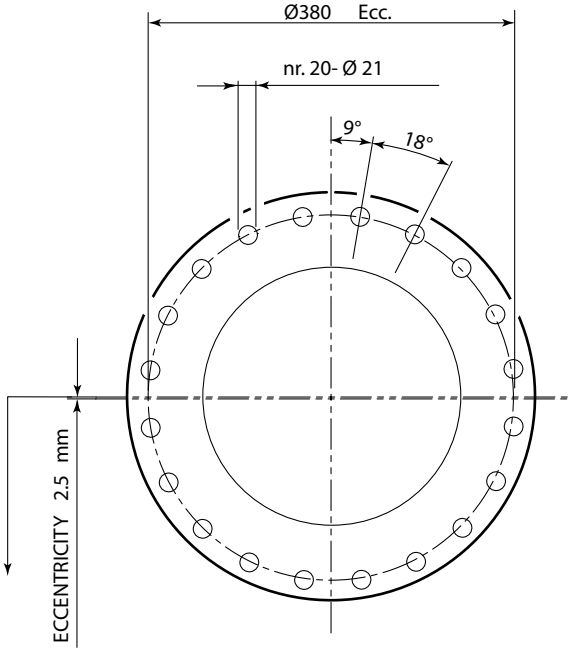
Pignone calettato / *Splined pinion*

Pignone integrale / *Integral pinion*

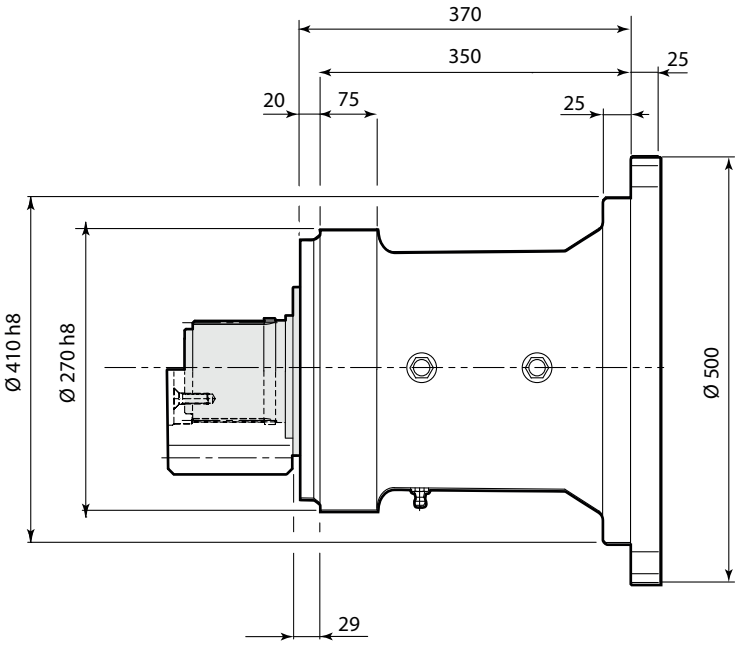
T_{2FEM}
31100 ÷ 48100 Nm
44500 ÷ 65500 Nm

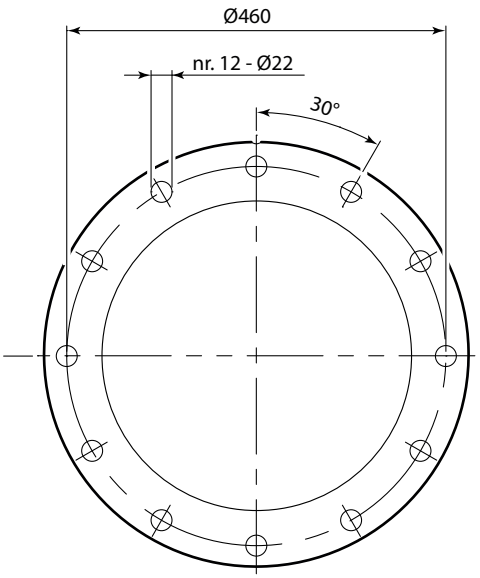
Supporto / *Support*: DBS





Supporto / *Support*: Z

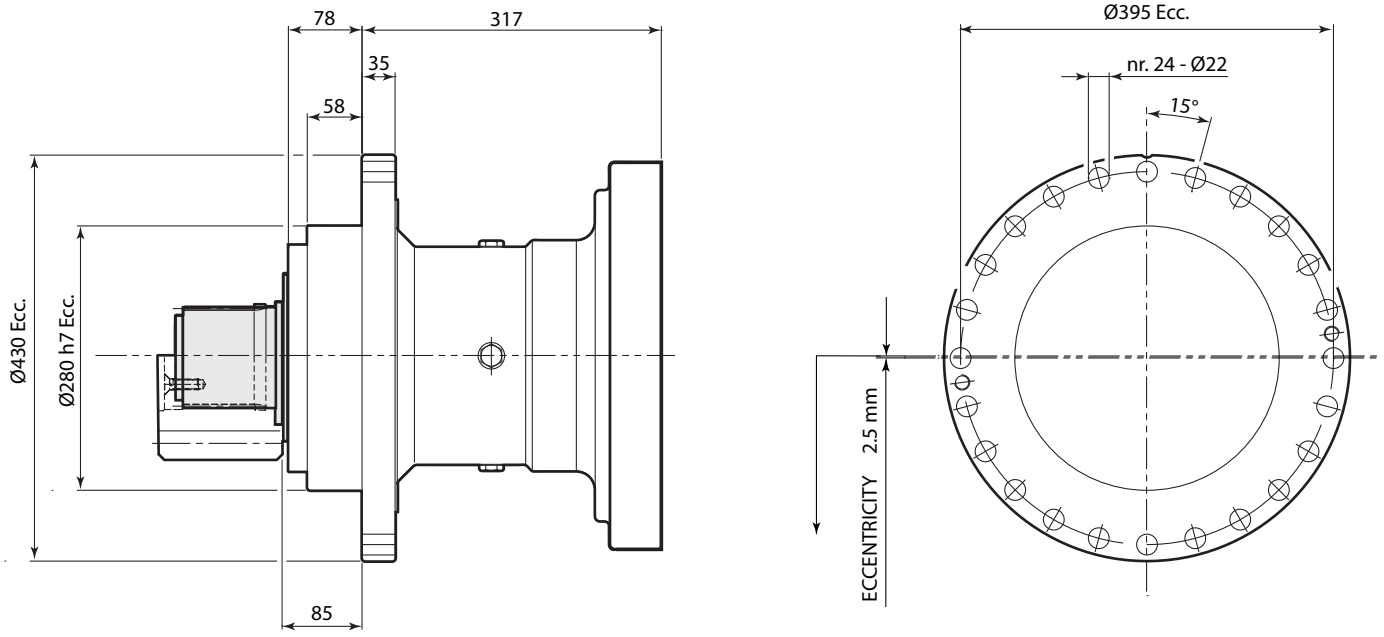




B-33
B-34

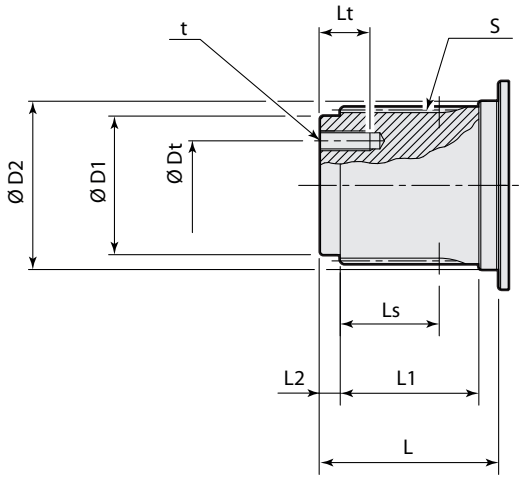
T_{2FEM}
31100 ÷ 48100 Nm
44500 ÷ 65500 Nm

Supporto / *Support*: Z1



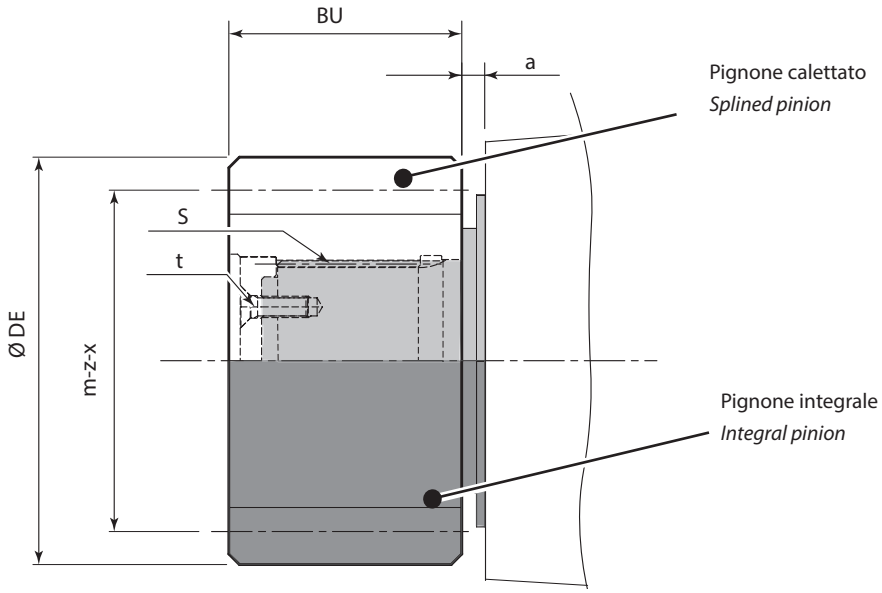
B-33
B-34

Albero / Shaft:



Supporto *Support*	ØD1	ØD2	S	Ls	L	L1	L2	t	ØDt	Lt
	[mm]									
DBS	85 f7	105 f7	DIN 5482 B100x94	65	110	85	12	M14 (n° 3)	52	30
Z	85 f7	105 f7	DIN 5482 B100x94	65	110	85	12	M14 (n° 3)	52	30
Z1	85 f7	105 f7	DIN 5482 B100x94	65	110	85	12	M14 (n° 3)	52	30

Pignoni / *Pinions*:



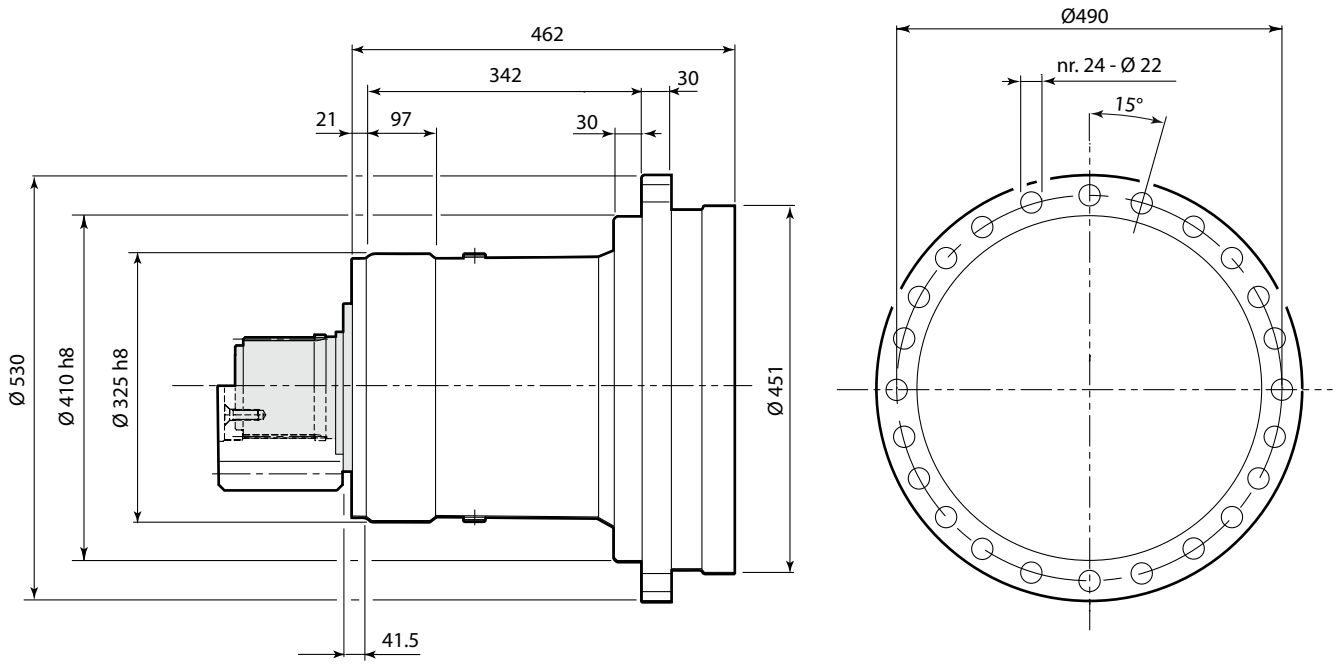
Supporto *Support*	m	z	x	ØDE	BU	a	S	t	Tmax	
	[mm]								Static [Nm]	Dynamic [Nm]
DBS	12	16	0.5	226.8	105	76	DIN 5482 B100x94	M14 (n° 3)	35500	31950
	14	12	0.5	210	135	3			38500	34650
	16	11	0.5	224.4	130	3	-	-	41000	36900
	16	13	0.5	256	160	3	-	-	45500	40950
	18	13	0.5	288	140	3	DIN 5482 B100x94	M14 (n° 3)	53000	47700
	18	15	0.45	322.2	140	8.5			59000	53100
	20	12	0.5	298	150	3	-	-	54000	48600
	20	14	0.5	339	130	57	DIN 5482 B100x94	M14 (n° 3)	53500	48150
Z	12	15	0.3	211.5	105	27	DIN 5482 B100x94	M14 (n° 3)	66500	59850
	14	13	0.5	222.4	125	5	-	-	55000	49500
	16	14	0.5	266	160	5	-	-	56000	50400
	18	10	0.5	234	170	3	-	-	50000	45000
	18	15	0.45	322.2	140	14.5	DIN 5482 B100x94	M14 (n° 3)	70200	63180
Z1	12	15	0.3	211.5	105	23	DIN 5482 B100x94	M14 (n° 3)	68000	61200
	16	10	0.5	206.4	170	5	-	-	59000	53100
	16	12	0.5	240	140	5	-	-	70200	63180
	16	14	0.4	268.8	140	5	-	-	70200	63180
	18	10	0.5	230.4	180	5	-	-	63000	56700
	18	12	0.5	260	145	5	-	-	70200	63180

Pignone calettato / *Splined pinion*

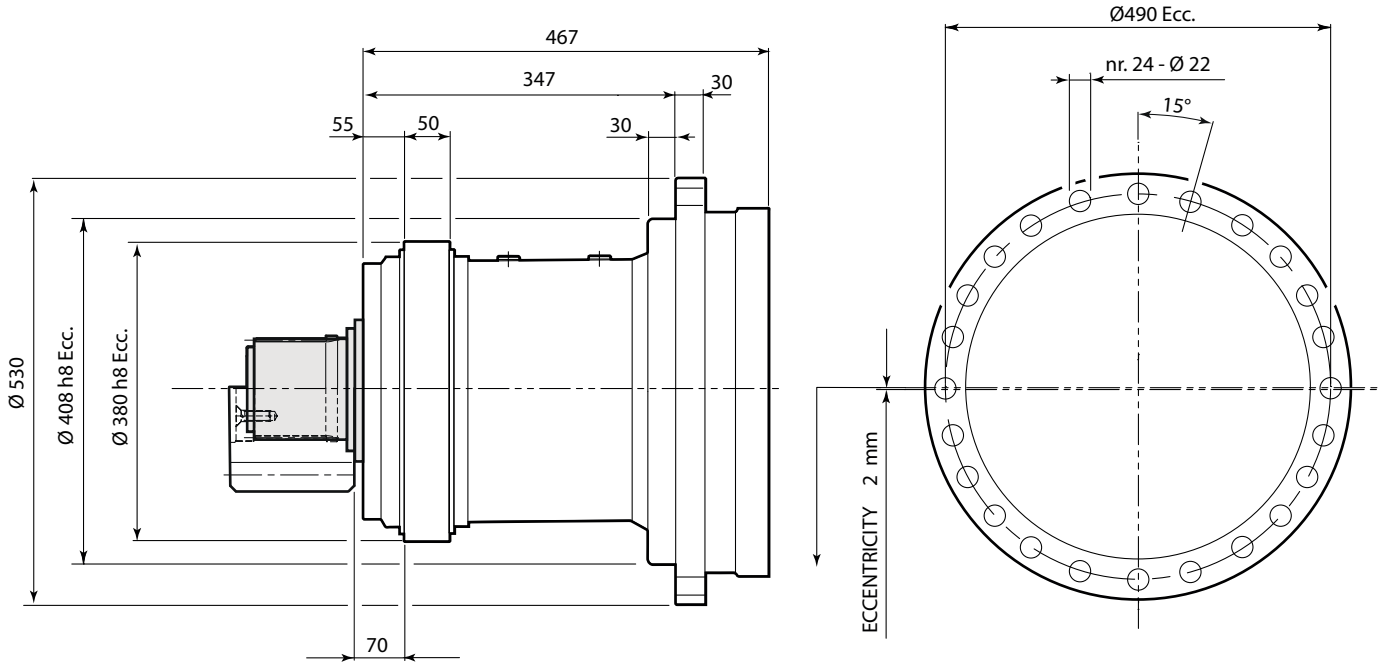
Pignone integrale / *Integral pinion*

T_{2FEM} 47500 ÷ 71800 Nm
71000 ÷ 105000 Nm

Supporto / *Support*: Z2



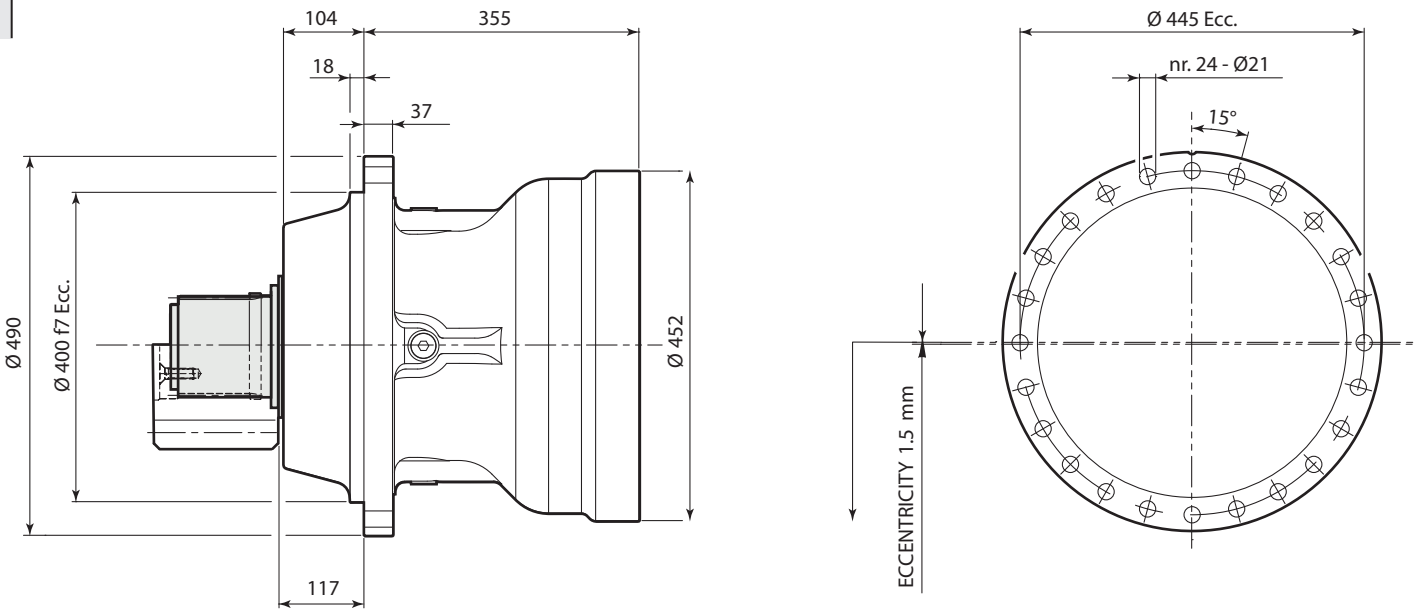
Supporto / *Support*: Z3



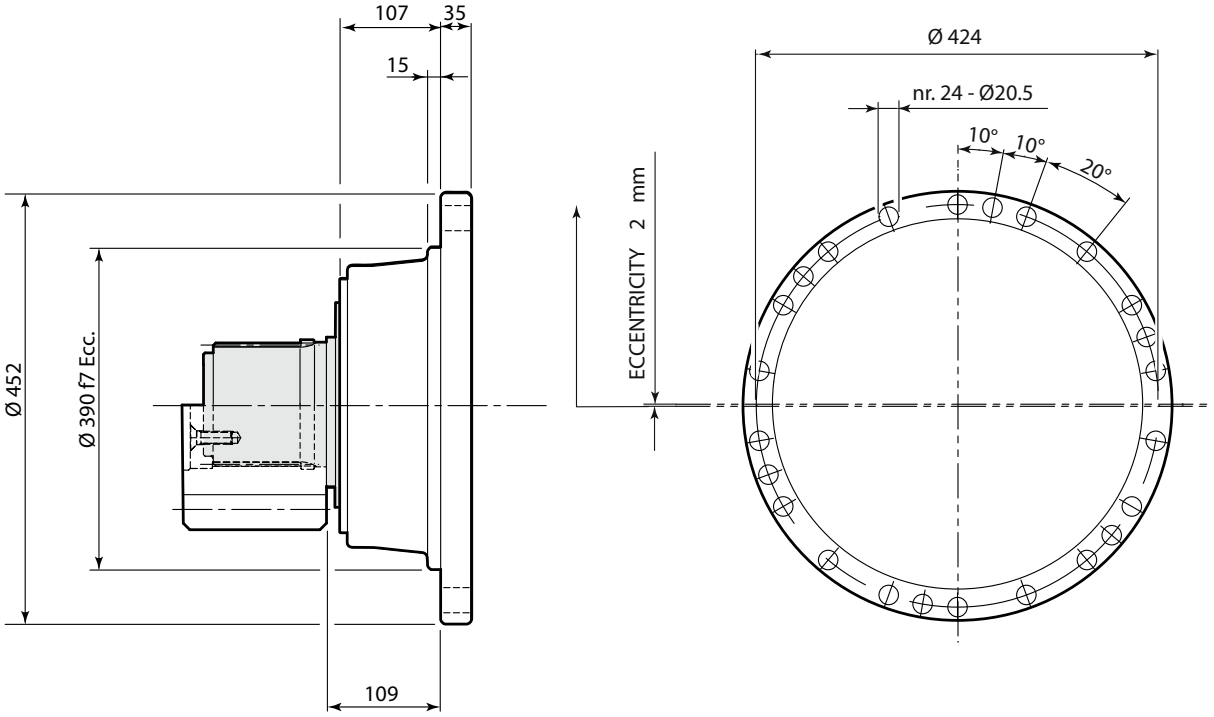
B-37
B-38

T_{2FEM}
47500 ÷ 71800 Nm
71000 ÷ 105000 Nm

Supporto / *Support*: DBS1

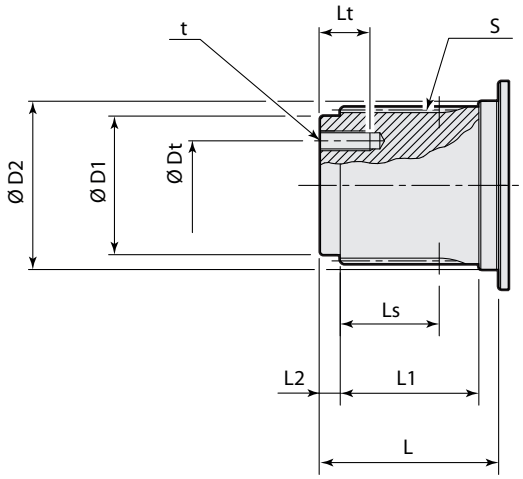


Supporto / *Support*: HR



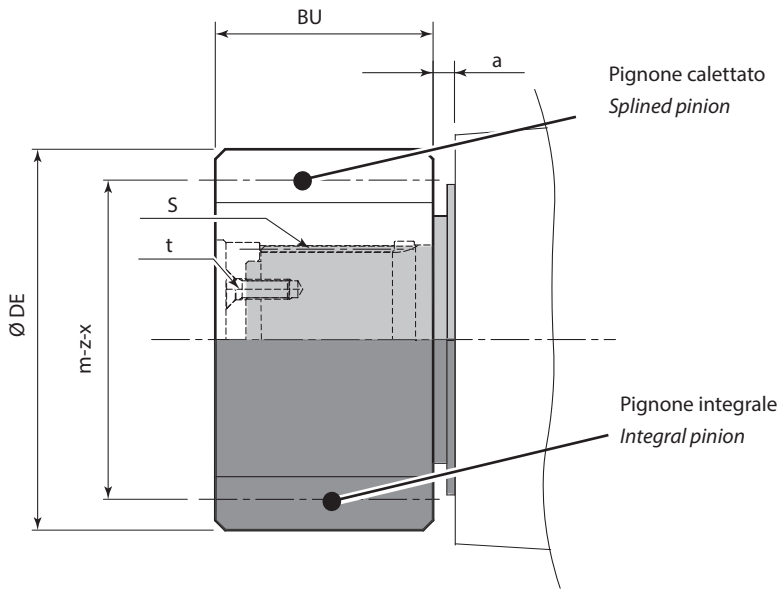
B-37 B-38

Albero / Shaft:



Supporto *Support*	ØD1	ØD2	S	Ls	L	L1	L2	t	ØDt	Lt
	[mm]									
Z2	90 f7	124 f7	DIN 5480 W120x3	95	136	111	15	M16 (n° 3)	50	30
Z3	90 f7	124 f7	DIN 5480 W120x3	95	136	111	15	M16 (n° 3)	50	30
DBS1	125 f7	151 f7	DIN 5480 W150x5	107	150	124	12	M16 (n° 3)	80	35
HR	90 f7	124 f7	DIN 5480 W120x3	95	136	111	15	M16 (n°3)	50	30

Pignoni / *Pinions*:



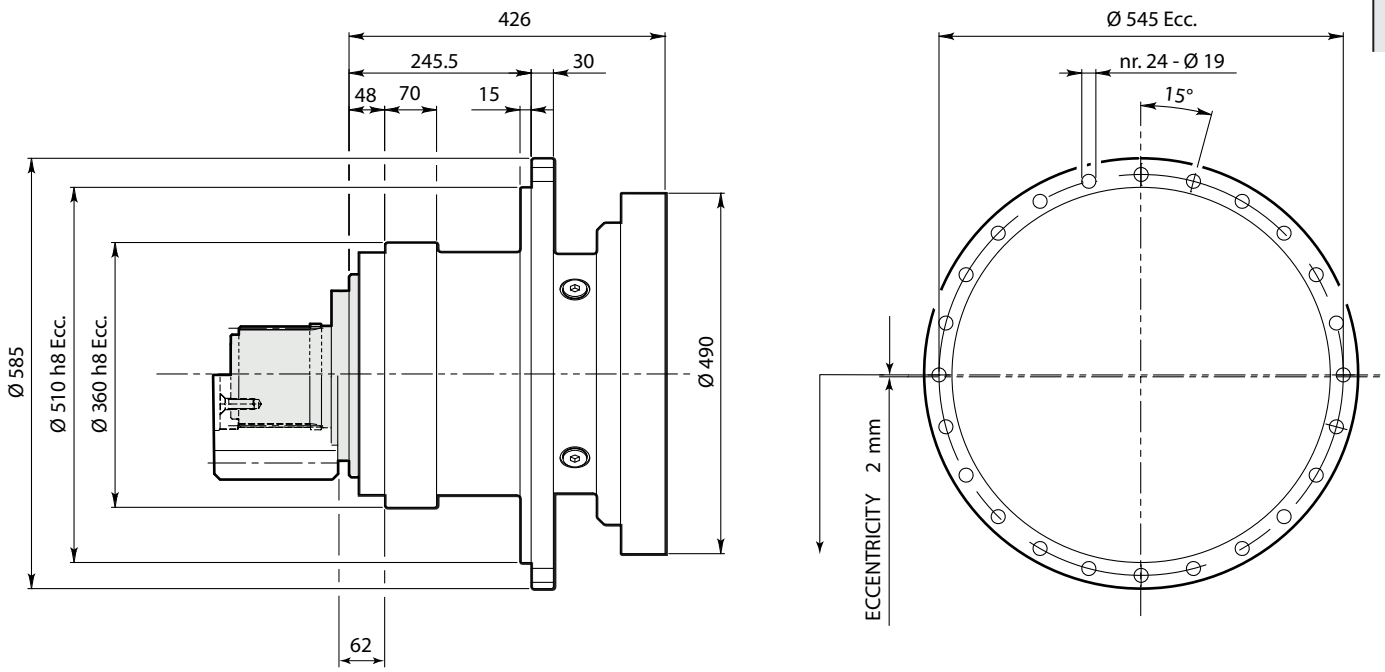
Supporto *Support*	m	z	x	ØDE	BU	a	S	t	Tmax	
	[mm]								Static [Nm]	Dynamic [Nm]
Z2	16	14	0.5	270	150	5	-	-	110000	99000
	16	17	0.5	320	160	15	-	-	98000	88200
	20	12	0.5	297	150	5	-	-	117000	105300
	20	13	0.5	320	145	25	-	-	100000	90000
	22	12	0.5	327.8	220	15	-	-	113000	101700
	22	14	0.5	374	225	15	-	-	120000	108000
Z3	16	14	0.5	270	150	5	-	-	110000	99000
	20	12	0.5	297	150	5	-	-	118000	106200
	22	14	0.5	374	180	25	DIN 5480 W120x3	M16 (n° 3)	106000	95400
	24	13	0.3	374.4	180	5	-	-	119000	107100
DBS1	14	13	0.5	224	150	7	-	-	90000	81000
	16	12	0.5	240	160	7	-	-	95000	85000
	16	21	0	368	155	13	DIN 5480 W150x5	M16 (n° 3)	124000	111600
	18	12	0.5	268	190	7	-	-	103000	92700
	18	13	0.5	288	190	7	-	-	110000	99000
	20	12	0.5	297	150	32	-	-	113000	101700
	20	14	0.5	340	114	7	-	-	124000	111600
	20	15	0.45	358	180	7	-	-	124000	111600
	22	14	0.5	374	180	7	-	-	124000	111600
	24	12	0.5	357.6	180	7	-	-	124000	111600
	25	12	0.5	372.5	120	7	-	-	124000	111600
HR	16	17	-	304	135	9	DIN 5480 W120x3	M16 (n° 3)	78000	70200
	20	11	0.5	274.8	155	12			75000	67500
	20	14	0.5	340	130	47			76000	68400
	22	14	0.5	374	180	12			80000	72000

Pignone calettato / *Splined pinion*

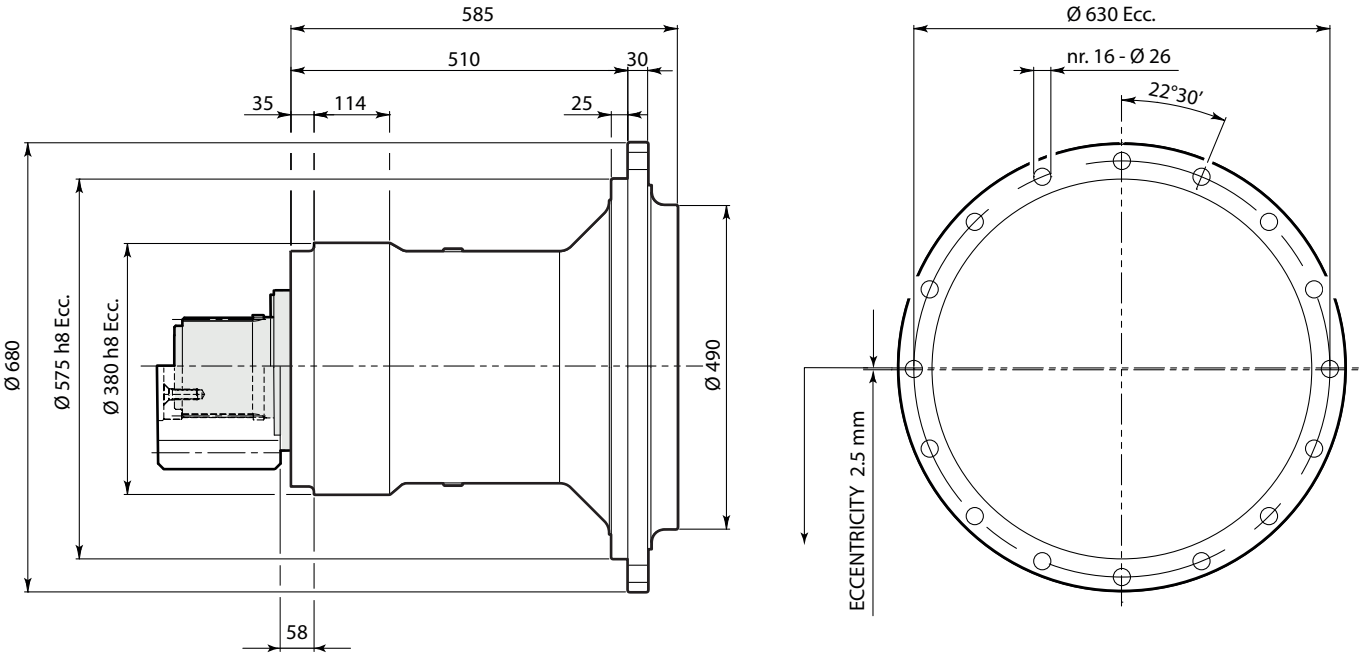
Pignone integrale / *Integral pinion*

T_{2FEM} 64200 ÷ 122000 Nm
126500 ÷ 163500 Nm

Supporto / *Support*: Z1

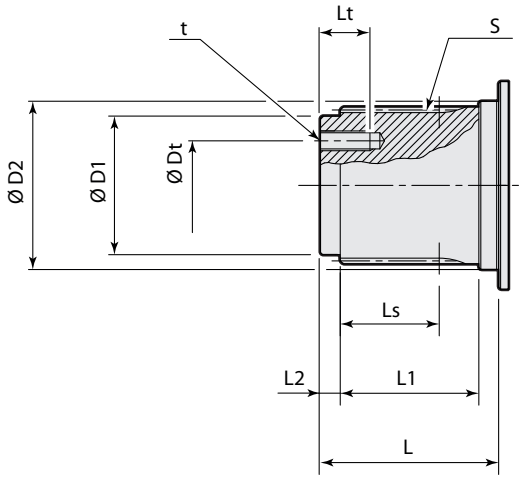


Supporto / *Support*: Z4



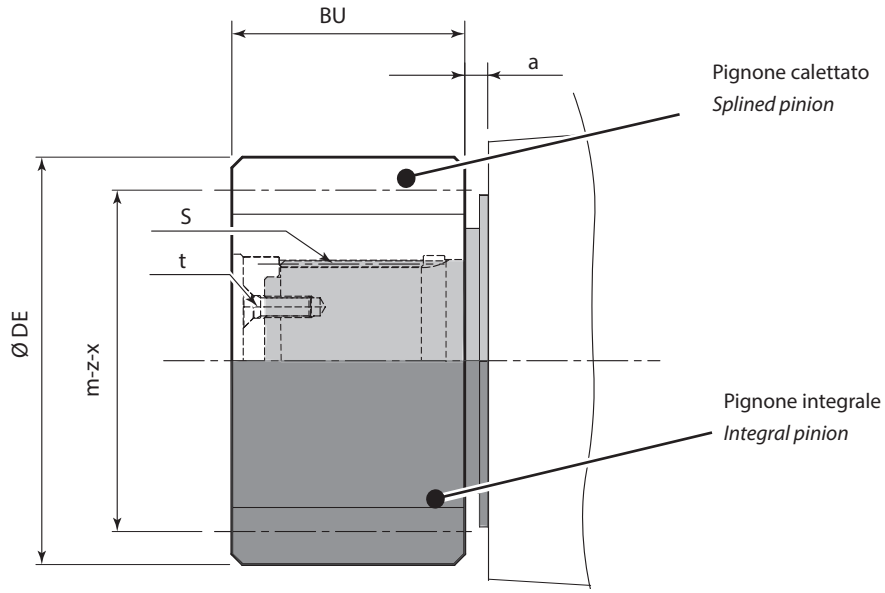
B-40
B-41

Albero / Shaft:



Supporto *Support*	ØD1	ØD2	S	Ls	L	L1	L2	t	ØDt	Lt
	[mm]									
Z1	125 f7	151 f7	DIN 5480 W150x5	107	150	124	12	M16 (n°3)	80	35
Z4	125 f7	151 f7	DIN 5480 W150x5	107	150	124	12	M16 (n°3)	80	35

Pignoni / *Pinions*:



Supporto *Support*	m	z	x	ØDE	BU	a	S	t	Tmax Static [Nm]	Tmax Dynamic [Nm]
	[mm]									
Z1	16	16	0.5	304	115	49	DIN 5480 W150x5	M16 (n° 3)	110700	99630
	16	24	0.5	432	160	34			110700	99630
	22	14	0.5	369.6	155	23			110700	99630
Z4	16	24	0.5	432	160	38	DIN 5480 W150x5	M16 (n° 3)	162500	146250
	18	14	0.5	305	155	40	-	-	157000	141300
	20	12	0.5	300	150	10	-	-	162500	146250
	20	13	0.5	320	190	10	-	-	162500	146250
	22	14	0.5	371.8	260	10	-	-	162500	146250
	25	12	0.5	373	240	10	-	-	162500	146250

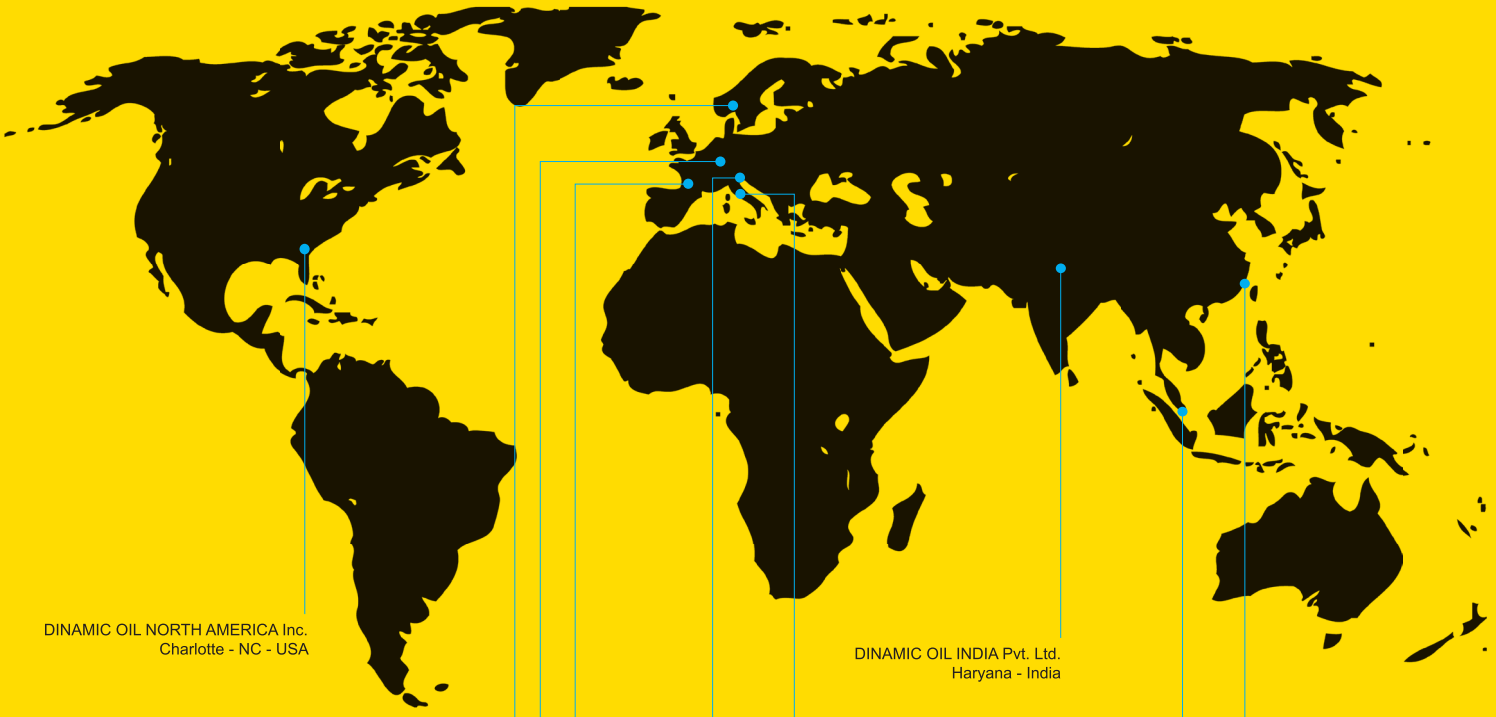
Pignone calettato / *Splined pinion*
Pignone integrale / *Integral pinion*

5 mm

5 mm

5 mm

Branches



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