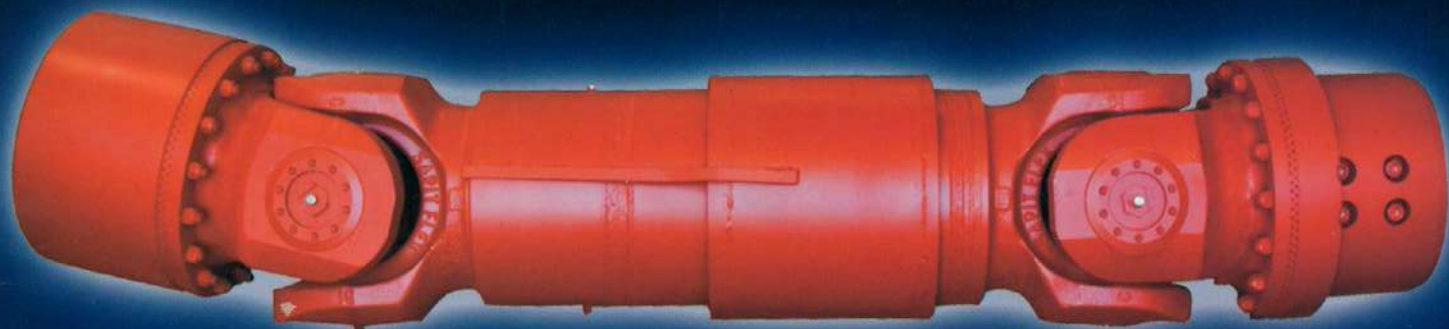


SAPIT *flex*®



**ALLUNGHE
CARDANICHE**



CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

SAPITFLEX S.r.l.
Via Lainate, 20
20010 Pogliano Milanese (Milano) – Italia

has been approved by Lloyd's Register Quality Assurance
to the following Quality Management System Standards:

ISO 9001

The Quality Management System is applicable to:

**Design and manufacture of transmission couplings. Design
and manufacture of gears. Provision of maintenance and
reinstatement services of couplings, gears and mechanical
equipments for metallurgical and mechanical industries.**

This certificate is valid only in association with the certificate schedule bearing the same number on
which the locations applicable to this approval are listed.

Approval Certificate
No: LRC 0160086/QMS/U/EN

Original Approval: 24th July 1996



Issued by: Lloyd's Register Quality Assurance Italy Srl
for and on behalf of Lloyd's Register Quality Assurance Limited



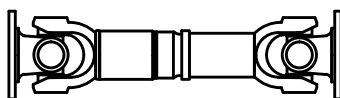
This document is subject to the provision below
Via Cadorna, 69 20090 Vimodrone (MI)

For and on behalf of Hiramford, Middlemarch Office Village, Siskin Drive, Coventry, CV3 4FJ, United Kingdom.

This approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQA.

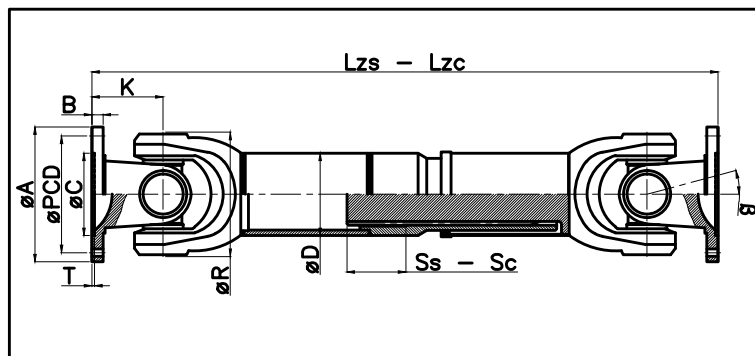
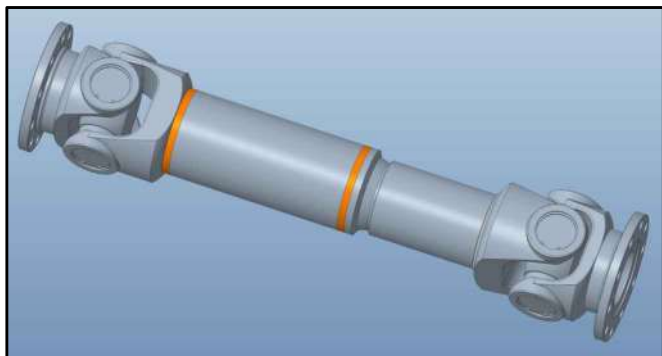
The use of the UKAS Accreditation Mark indicates Accreditation in respect of those activities covered by the Accreditation Certificate Number 001

ALLUNGHE CARDANICHE

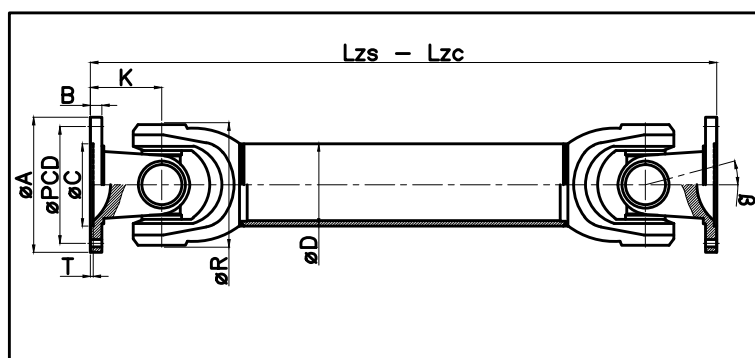
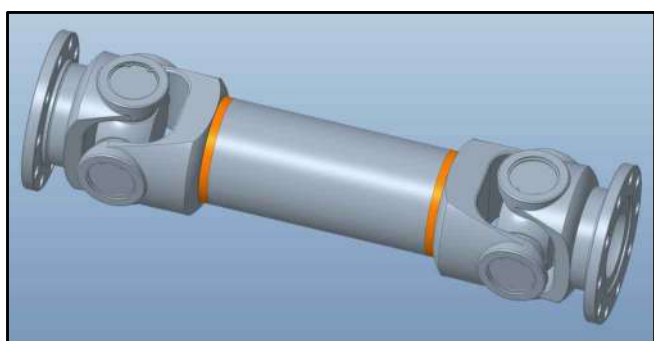


UNIVERSAL JOINT

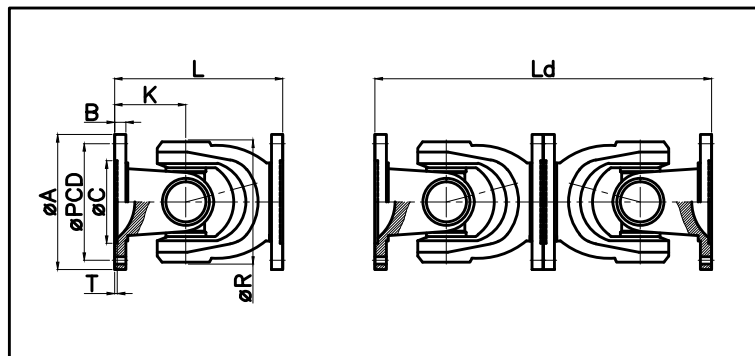
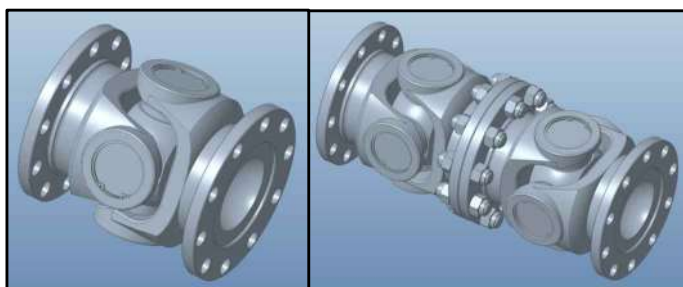
Serie/Ranges DNFN



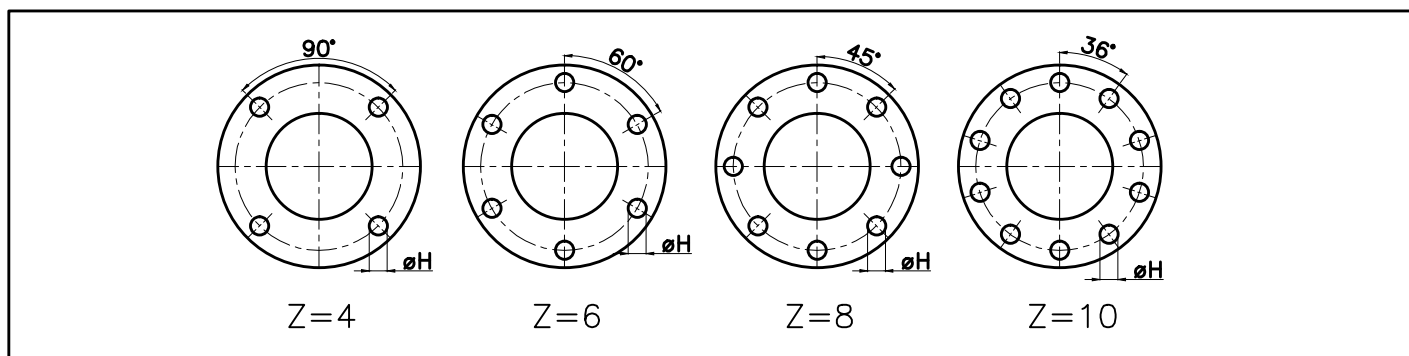
DNFN-S Versione standard - DNFN-C Versione corta - DNFN-S Standard version - DNFN-C Short version



DNFN-F Versione fissa - DNFN-F Fixed version



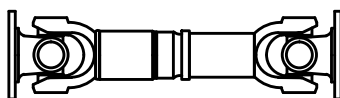
DNFN-G Giunto semplice - DNFN-D Giunto doppio - DNFN-G Simple joint - DNFN-D Double joint



Flange standard - Standard flange

DIMENSIONI RIFERITE AI TIPI STANDARD

DIMENSION REFERRED TO STANDARD VERSION



Caratteristiche tecniche/Technical features

Serie/Ranges DNFN

Serie NORMALE

NORMAL series

TIPO SIZE	Tn	Tf	A	B	C H7	PCD	H B12	Z	R	K	T	D	β	Lzs min.	Ss	Lzc min.	Sc	Lf min.	L	Ld
	Nm	Nm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	°	mm	mm	mm	mm	mm	mm	mm
DNFN10X	560	225	75	5.5	42	62	6	6	77	42	2	50x2.5	25	324	100	200	30	189	84	168
DNFN10Y			90	6.5	47	74.5	8	4		33	2.5		20	306		182		171	66	132
DNFN20Z	860	345	90	7	47	74.5	8	4	90	50.5	2.8	60x2.5	28	371	80	226	25	244	101	202
DNFN20X			100	7	57	84	8	6		50.5	2.5			371		226		244	101	202
DNFN20Y			120	8	75	101.5	10	8		43	2.7			356		211		229	86	172
DNFN30X	1100	450	100	7	57	84	8	6	100	58	2.5	60x2.5	25	377	60	251	25	275	116	232
DNFN30Y			120	8	75	101.5	10	8		52	2.5			365		239		263	104	208
DNFN40X	1800	720	100	8	57	84	8	6	122	68	2.5	75x3	28	426	60	332	35	275	130	260
DNFN40Y			120	8.5	75	101.5	10	8		68	3.0			426		332		275	140	280
DNFN50X	3300	1350	120	8	75	101.5	10	8	136	72	3.1	75x3	28	491	110	354	50	327	144	288
DNFN50Y			150	10	90	130	12	8		76	3.3			499		362		335	152	304
DNFN60Z	5200	2100	120	8	75	101.5	10	8	138	73	2.8	90x3.5	25	538	110	376	70	323	146	292
DNFN60X			150	10	90	130	12	8		76	3.0			544		382		329	152	304
DNFN60Y			180	10	110	155.5	12	8		65	3.8			522		360		313	130	260
DNFN70X	6200	2500	150	10	90	130	12	8	141	86	3.0	85x5	25	597	130	432	35	385	172	344
DNFN70Y			180	12	110	155.5	14	8		86	3.0			597		432		385	172	344
DNFN80Z	10000	4000	150	11.5	90	130	12	8	158	89.5	3.3	92x6.5	35	652	120	419	30	380	179	358
DNFN80W			165	12	95	140	14	8		90	3.1			653		420		381	180	360
DNFN80X			180	12	110	155.5	14	8		96	3.3			665		432		393	192	384
DNFN80Y			180	12	110	155.5	16	10		90	3.3			653		420		381	180	360
DNFN90Z	16000	6400	180	14	110	155.5	14	8	178	96	3.4	112x7	25	753	140	—	—	470	192	384
DNFN90X			180	14	110	155.5	16	10		100	3.4		30	761		—		475	200	400
DNFN90Y			225	15	140	196	16	8		96	5		25	753		—		470	192	384
DNFN100Z	27000	10800	180	14	110	155.5	16	10	204	110	2.9	142x6	25	690	110	500	30	493	220	440
DNFN100X			225	15	140	196	16	8			5			690		500		493	220	440
DNFN100Y			250	18	140	218	18	8			6			690		500		493	220	440

Serie RINFORZATA

STRONGER series

TIPO SIZE	Tn	Tf	A	B	C H7	PCD	H B12	Z	R	K	T	D	β	Lzs min.	Ss	Lzc min.	Sc	Lf min.	L	Ld
	Nm	Nm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	°	mm	mm	mm	mm	mm	mm	mm
DNFN21Z	1800	780	90	7	47	74.5	8	4	90	50.5	2.8	60x2.5	28	395	100	284	55	244	101	202
DNFN21X			100	7	57	84	8	6		50.5	2.5		28	395		284	55	244	101	202
DNFN21Y			120	8	75	101.5	10	8		43	2.7		25	400		269	55	229	86	172
DNFN31X	2700	1080	100	7	57	84	8	6	98	54	2.6	60x2.5	30	455	110	317	70	263	108	216
DNFN31Y			120	8	75	101.5	10	8		54	2.6			455		317	70	263	108	216
DNFN41X	5000	2000	120	8	75	101.5	10	8	125	65	2.5	76.2x2.4	30	477	110	301	35	299	130	260
DNFN41Y			150	10	90	130	12	8		78	3.1			503		327	35	325	156	312
DNFN81X	13000	5200	180	12	110	155.5	14	8	172	95	3.0	120x4	25	601	110	580	110	419	190	380
DNFN91Z	19000	7600	180	14	110	155.5	14	8	178	96	3.4	120x6	25	618	110	407	30	427	192	384
DNFN91X			180	14	110	155.5	16	10		100	3.4		30	626		415	30	435	200	400
DNFN91Y			225	15	140	196	16	8		96	5		25	618		407	30	427	192	384

DIMENSIONI RIFERITE AI TIPI STANDARD

DIMENSION REFERRED TO STANDARD VERSION

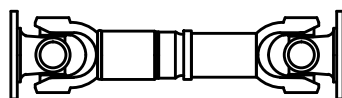
Tn momento torcente niminale
 Tf momento torcente a fatica
 β angolo di inclinazione
 Lzs—Lzc Lunghezza minima chiusa
 Ss—Sc allungamento standard

Tn rated torque
 Tf fatigue torque
 β max. working angle
 Lzs—Lzc min. collapsed lenght
 Ss—Sc standard extension

Allungamenti fuori standard o flange speciali a richiesta

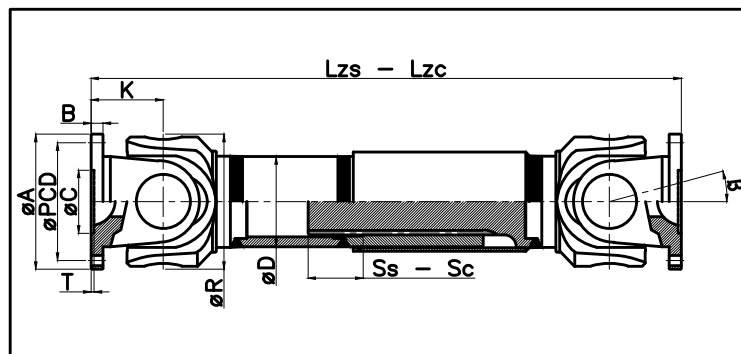
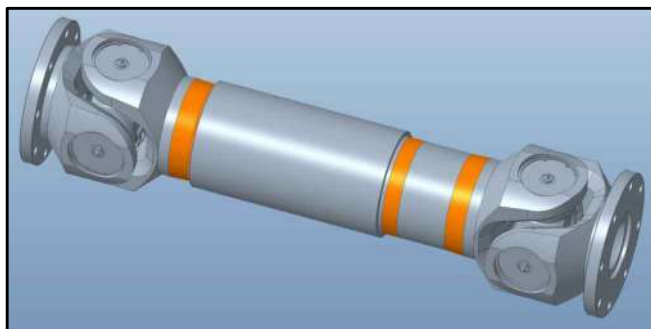
Over standard extension or special flange upon request

ALLUNGHE CARDANICHE

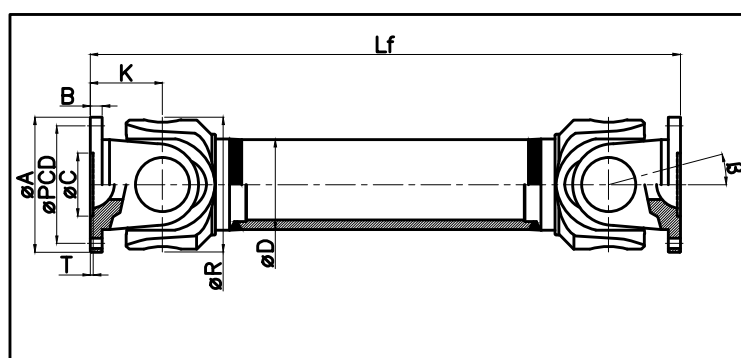
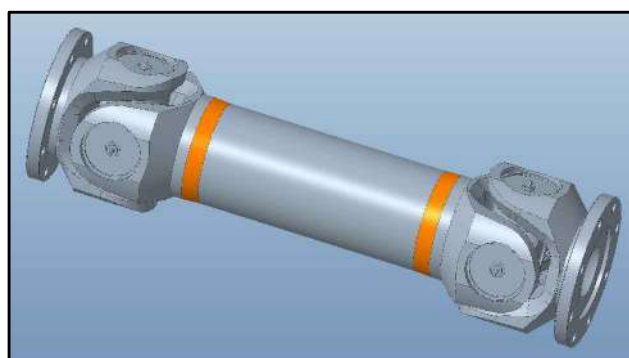


UNIVERSAL JOINT

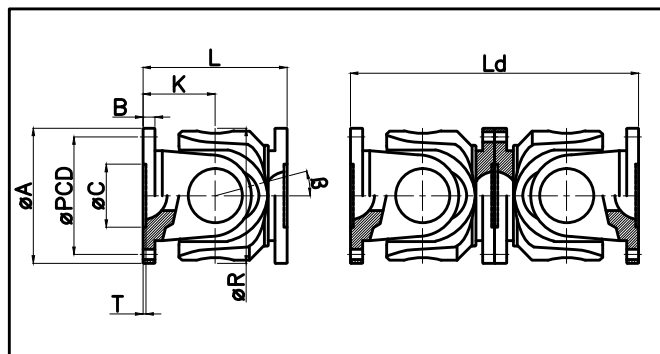
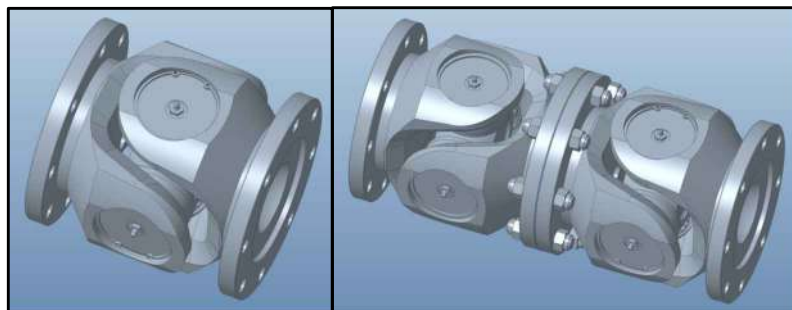
Serie/Ranges WXDN



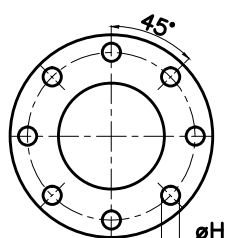
WXDN-S Versione standard - WXDN-C Versione corta - WXDN-S Standard version - WXDN-C Short version



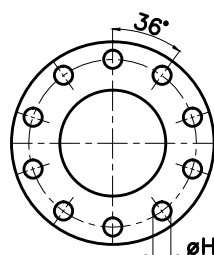
WXDN-F Versione fissa - WXDN-F Fixed version



WXDN-G Giunto semplice - WXDN-D Giunto doppio - WXDN-G Simple joint - WXDN-D Double joint



Z=8

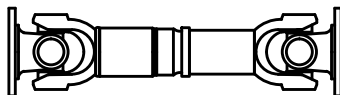


Z=10

Flange standard - Standard flange

DIMENSIONI RIFERITE AI TIPI STANDARD

DIMENSION REFERRED TO STANDARD VERSION



Caratteristiche tecniche/Technical features

Serie/Ranges WXDN

TIPO SIZE	T _n	T _f	A	B	C H7	PCD	H B12	Z	R	K	T	D	β	L _{zs} min.	S _s	L _{zc} min.	Sc	L _f min.	L	L _d
	kNm	kNm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	°	mm	mm	mm	mm	mm	mm	mm
WXDN180-225	22.4	11.2	225	17	140	196	16	8	180	110	5	114.2x12.5	15	830	130	670	40	480	220	440
WXDN200-225	36	18	225	20	140	196	16	8	200	110	5	133x17.5	15	850	130	690	40	500	220	440
WXDN225-250	56	28	250	20	140	218	18	8	225	120	5	152.4x17.5	15	935	140	760	40	520	240	480
WXDN250-285	80	40	285	25	175	245	20	8	250	140	6	171x17.5	15	1055	140	880	40	600	280	560
WXDN285-315	120	58	315	27	175	280	22	8	285	160	7	193.7x20	15	1165	140	985	40	680	320	640
WXDN315-350	160	80	350	32	220	310	22	10	315	180	8	219.1x25	15	1305	160	1105	40	760	360	720
WXDN350-390	225	110	390	35	250	345	24	10	350	194	8	244.5x25	15	1395	160	1200	60	820	388	776
WXDN390-440	320	160	440	40	280	385	27	10	390	215	9	273x30	15	1520	160	1340	60	900	430	860

DIMENSIONI RIFERITE AI TIPI STANDARD

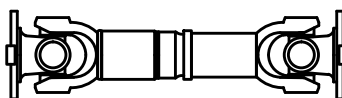
DIMENSION REFERRED TO STANDARD VERSION

T_n momento torcente niminale
 T_f momento torcente a fatica
 β angolo di inclinazione
 L_{zs}–L_{zc} Lunghezza minima chiusa
 S_s–S_c allungamento standard

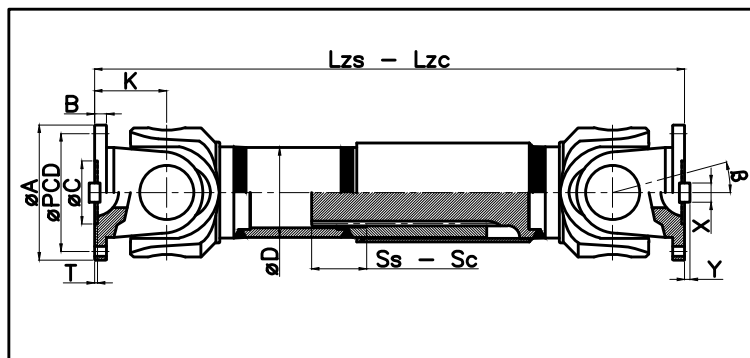
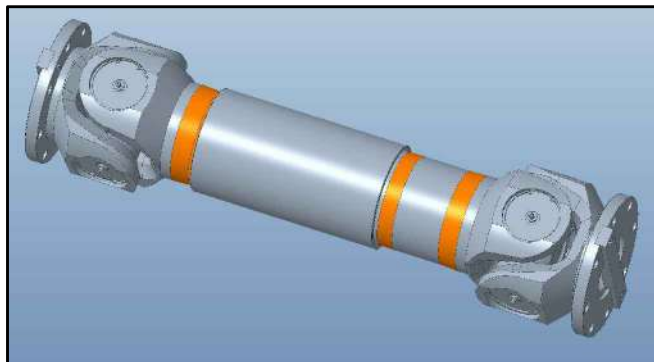
T_n rated torque
 T_f fatigue torque
 β max. working angle
 L_{zs}–L_{zc} min. collapsed lenght
 S_s–S_c standard extension

Allungamenti fuori standard o flange speciali a richiesta

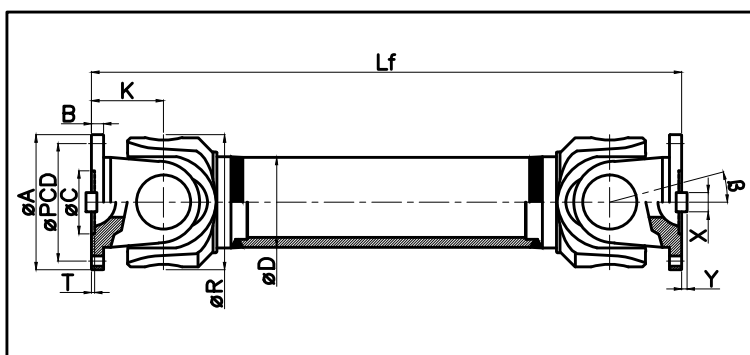
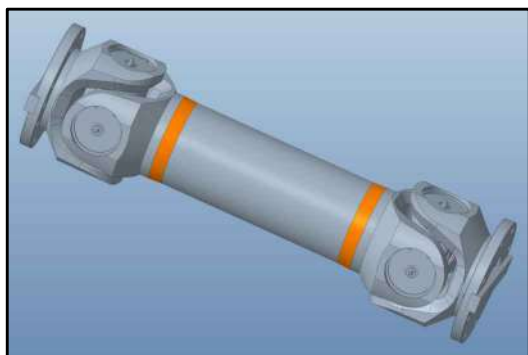
Over standard extension or special flange upon request



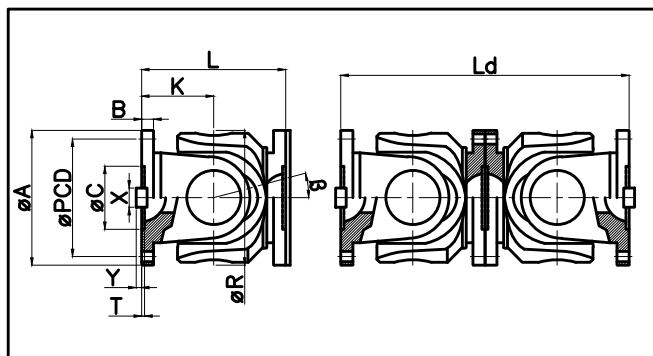
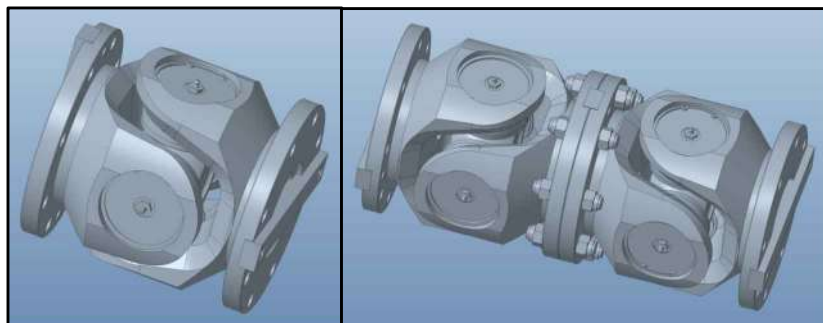
Serie/Ranges WAFX



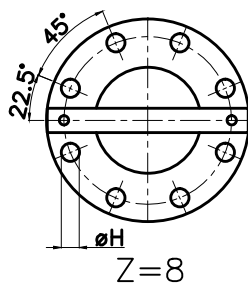
WAFX-S Versione standard - WAFX-C Versione corta - WAFX-S Standard version - WAFX-C Short version



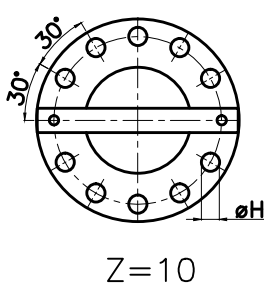
WAFX-F Versione fissa - WAFX-F Fixed version



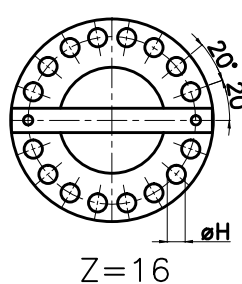
WAFX-G Giunto semplice - VAFX-D Giunto doppio - WAFX-G Simple joint - WAFX-D Double joint



Z=8

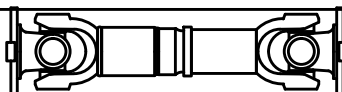


Z=10



Z=16

Flange standard - Standard flange



Caratteristiche tecniche/Technical features

Serie/Ranges WAFX

TIPO SIZE	T _n	T _f	A	B	C H7	PCD	H B12	Z	X	Y	R	K	T	D	β	L _{zs} min.	S _s	L _{zc} min.	Sc	L _f min.	L	L _d
	KNm	KNm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	°	mm	mm	mm	mm	mm	mm	mm
WAFX180	22.4	11.2	180	17	90	155.5	17	8	25	6	180	110	3.6	114.2x12.5	15	830	130	670	40	480	220	440
WAFX180-225			225	17	105	196	17	8	32	9					15							
WAFX200	36	18	225	20	105	196	17	8	32	9	200	110	5	133x17.5	15	850	130	690	40	500	220	440
WAFX200-250			250	20	105	218	19	8	40	12.5					15							
WAFX225	56	28	225	20	105	196	17	8	32	9	225	120	5	152.4x17.5	15	935	140	760	40	520	240	480
WAFX225-250			250	20	105	218	19	8	40	12.5					15							
WAFX250	80	40	250	25	105	218	19	8	40	12.5	250	140	6	171x17.5	15	1055	140	880	40	600	280	560
WAFX250-285			285	25	125	245	21	8	40	15					15							
WAFX285	120	58	285	27	125	245	21	8	40	15	285	160	7	193.7x20	15	1165	140	985	40	680	320	640
WAFX285-315			315	27	130	280	23	10	40	15					15							
WAFX315	160	80	315	32	130	280	23	10	40	15	315	180	8	219.1x25	15	1305	160	1105	40	760	360	720
WAFX315-350			350	32	155	310	23	10	50	16					15							
WAFX350	225	110	350	35	155	310	23	10	50	16	350	194	8	244.5x25	15	1395	160	1200	60	820	388	776
WAFX350-390			390	35	170	345	25	10	70	18					15							
WAFX390	320	160	390	40	170	345	25	10	70	18	390	215	8	273x30	15	1520	160	1340	60	900	430	860
WAFX390-440			440	40	190	385	28	16	80	20					15							
WAFX440	500	250	440	42	190	385	28	16	80	20	440	260	10	330x35	15	1750	180	1550	70	1090	520	1040
WAFX440-490			490	42	205	425	31	16	90	22.5					15							
WAFX490	700	350	490	47	205	425	31	16	90	22.5	490	270	12	355.6x40	15	1880	200	1650	70	1130	540	1080
WAFX490-550			550	47	250	492	31	16	100	22.5					15							
WAFX550	1000	500	550	50	250	492	31	16	100	22.5	550	305	12	431.8x40	15	2020	200	1790	70	1270	610	1240
WAFX550-620			620	50	280	555	37	16	110	27.5					15							

DIMENSIONI RIFERITE AI TIPI STANDARD

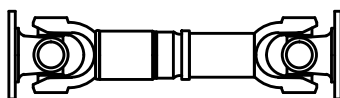
DIMENSION REFERRED TO STANDARD VERSION

T_n momento torcente niminale
T_f momento torcente a fatica
β angolo di inclinazione
L_{zs}—L_{zc} Lunghezza minima chiusa
S_s—S_c allungamento standard

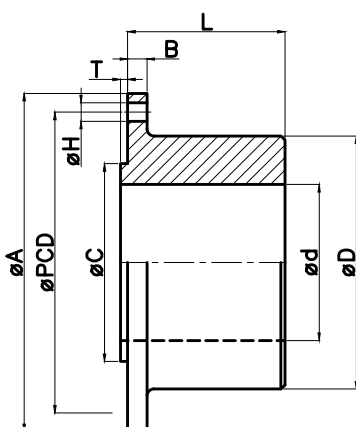
T_n rated torque
T_f fatigue torque
β max. working angle
L_{zs}—L_{zc} min. collapsed lenght
S_s—S_c standard extension

Allungamenti fuori standard o flange speciali a richiesta

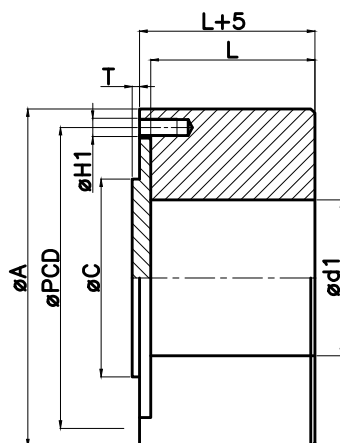
Over standard extension or special flange upon request



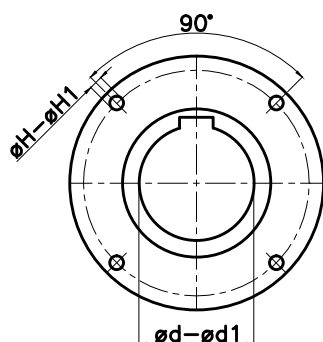
MOZZI - HUB Serie/Ranges DN



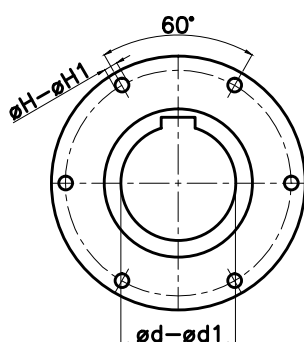
NORMALE—N
NORMAL —N



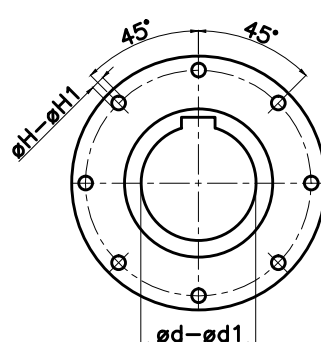
MAGGIORATA—M
OVERSIZED —M



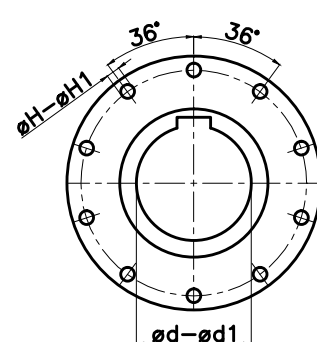
Z=4



Z=6



Z=8

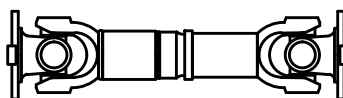


Z=10

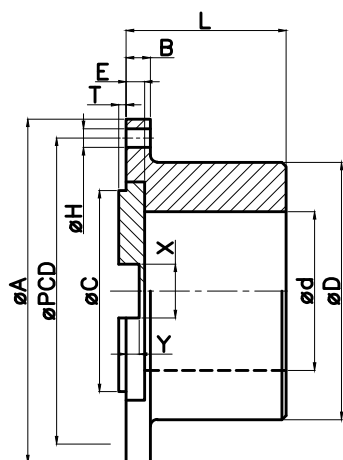
TIPO—SIZE	A	PCD	C h7	T	B	D	d max	d1 max	H B12	H1	Z	L
075.048.D	75	62	42	1.9	6	49	35	45	6	M6	6	48
090.055.D	90	74.5	47	2.3	8	56	40	55	8	M8	4	55
100.062.D	100	84	57	2.3	8	67	48	65	8	M8	6	62
120.070.D	120	101.5	75	2.3	8	78	55	80	8	M8	8	70
120.085.D	120	101.5	75	2.3	10	78	55	80	10	M10	8	85
150.100.D	150	130	90	2.5	12	105	75	105	12	M12	8	100
180.125.D	180	155.5	110	2.5	16	122	85	125	14	M14	8	125
180.150.D	180	155.5	110	2.5	16	122	85	125	16	M16	10	150
225.170.D	225	196	140	4	16	162	115	160	16	M16	8	170
250.210.D	250	218	140	4	18	180	125	175	18	M18	8	210
285.220.D	285	245	175	5	25	200	140	200	20	M20	8	220
315.230.D	315	280	175	6	27	235	165	225	22	M22	8	230
350.240.D	350	310	220	7	32	265	185	250	22	M22	10	240
390.270.D	390	345	250	7	35	295	210	275	24	M24	10	270
440.280.D	440	385	280	8	40	330	235	310	27	M27	10	280

DIMENSIONI RIFERITE AI TIPI STANDARD
MOZZI SPECIALI FORNIBILI A RICHIESTA

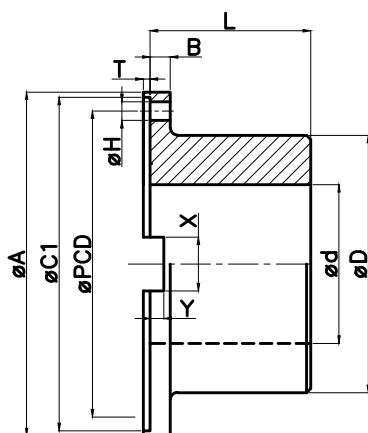
DIMENSION REFERRED TO STANDARD VERSION
SPECIAL HUB UPON REQUEST



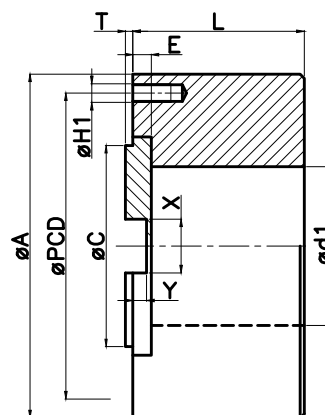
MOZZI - HUB Serie/Ranges WAFX



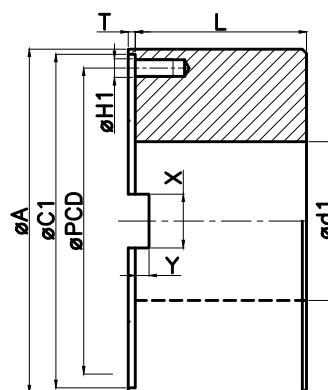
NORMALE-N
NORMAL -N



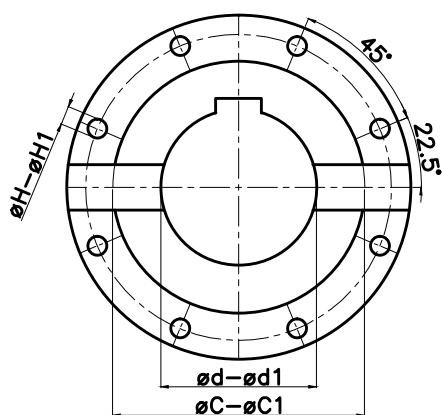
NORMALE-N1
NORMAL -N1



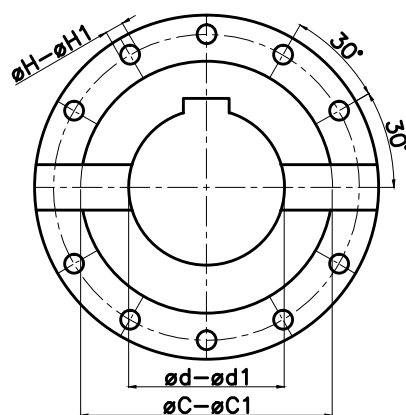
MAGGIORATA-M
OVERSIZED -M



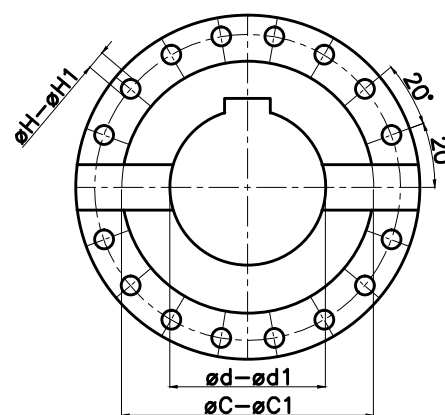
MAGGIORATA-M1
OVERSIZED -M1



Z=8



Z=10



Z=16

TIPO-SIZE	A	PCD	C h7	C1 H7	T	B	E	D	d max	d1 max	H B12	H1	Z	L	X	Y
180.150.C	180	155.5	90	175	3	17	15	122	85	125	16	M16	8	150	24	7
225.170.C	225	196	105	217	4	20	15	162	115	160	16	M16	8	170	32	9
250.210.C	250	218	105	242	5	25	20	180	125	175	18	M18	8	210	40	12.5
285.220.C	285	245	125	277	6	27	25	200	140	200	20	M20	8	220	40	15
315.230.C	315	280	130	307	7	32	25	235	165	225	22	M22	10	230	40	15
350.240.C	350	310	155	340	7	35	25	265	185	250	22	M22	10	240	50	16
390.270.C	390	345	170	380	7	40	30	295	210	275	24	M24	10	270	70	18
440.280.C	440	385	190	425	9	42	30	330	235	310	27	M27	16	280	80	20
490.300.C	490	425	205	475	11	47	35	360	255	350	30	M30	16	300	90	22.5
550.300.C	550	492	250	535	11	50	35	425	300	390	30	M30	16	300	100	22.5

DIMENSIONI RIFERITE AI TIPI STANDARD

ESECUZIONE CON FORI E LUNGHEZZE SPECIALI FORNIBILI A RICHIESTA

DIMENSION REFERRED TO STANDARD VERSION

ESECUZIONE CON FORI E LUNGHEZZE SPECIALI FORNIBILI A RICHIESTA

Scheda per la selezione di una allunga per laminatoio

Contatto.....

Azienda.....

Telefono..... Fax..... Email.....

Data..... N. di pagine.....

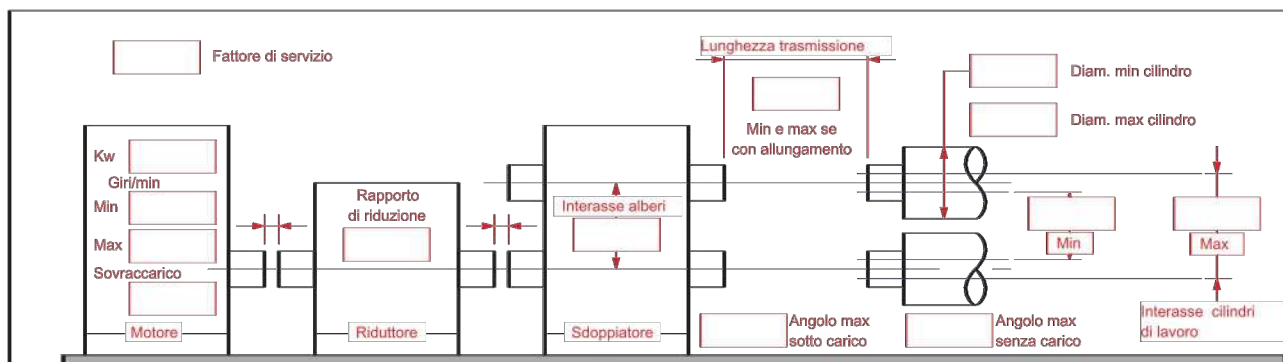
Tipo di laminatoio.....

No. gabbie di laminazione.....

No. di allunghe richieste.....

Riempire lo schema qui sotto con i seguenti dati

- | | | |
|---|-----------------------------|-------------------------------------|
| - Tipo di motore | - Interasse alberi | - Interasse cilindri di laminazione |
| - Giri/min Motore (min. e max) | - Distanza tra alberi | - Angolo massimo sotto carico |
| - Fattore di servizio | - Diametro minimo cilindro | - Angolo massimo a vuoto |
| - Sovraccarico Motore | - Diametro massimo cilindro | - Rapporto di riduzione |
| - Interasse minimo di lavoro dei cilindri | | |



Indicare ogni possibile caratteristica del laminatoio:

- | | |
|-----------------------------|---|
| - Condizione ambientale | - Posizione di montaggio (verticale oppure orizzontale, ecc.) |
| - Diametro ingombro ridotto | - Tipo di coppia (continua, pulsante, reversibile) |

.....

.....

.....

.....

Specifications to select one adapter for rolling mill

Contact.....

Company Name.....

Telephone No.....Fax No.....Email.....

Date..... N. of pages.....

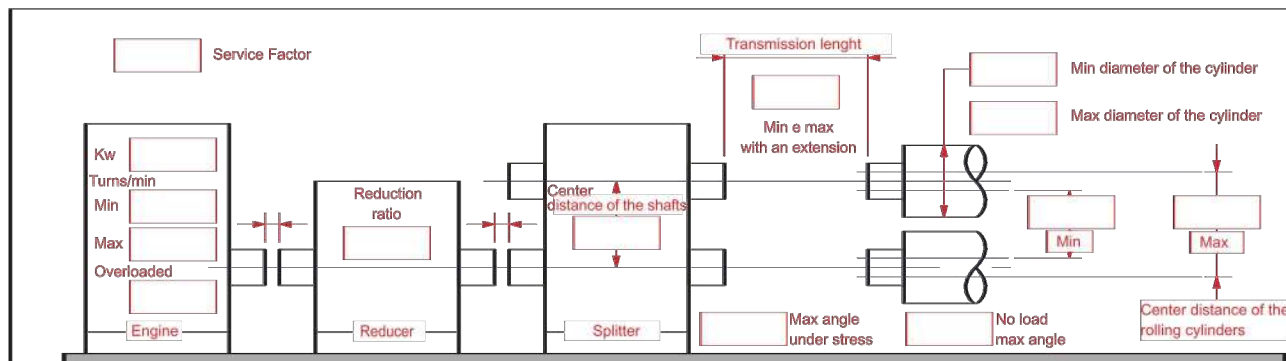
Type of rolling mill.....

No. of rolling mill process cages.....

No. of required adapters.....

Please fill in the below chart with the following data:

- | | | |
|--|---------------------------------|--|
| - Type of engine | - Center distance of the shafts | - Center distance of the rolling cylinders |
| - Turns/min Engine (min. and max) | - Shafts distance | - Max angle under stress |
| - Service Factor | - Min diameter of the cylinder | - No load max angle |
| - Overloaded Engine | - Max diameter of the cylinder | - Reduction ratio |
| - Min working center distance of the cylinders | | |



Please advise all specifications of the rolling mill:

- | | |
|-------------------------------|---|
| - Environmental condition | - Assembling position (vertical or horizontal, etc.) |
| - Reduced dimensions diameter | - Type of torque (continuous, pulsating, reversible) |

.....

.....

.....

.....

Scheda per la selezione di una allunga per applicazioni industriali

Contatto.....

Azienda.....

Telefono.....Fax.....Email.....

Data..... N. di pagine.....

Compilare con le informazioni seguenti

- | | |
|---------------------------------------|-----------------------------------|
| 1. Potenza Motore ..KW..... | 10. Angolo massimo previsto..... |
| 2. Giri Motore giri/1 | 11. Applicazione orizzontale..... |
| 3. Fattore di servizio richiesto..... | 12. Applicazione verticale..... |
| 4. Numero di giri/1 allunga..... | 13. Temperatura ambiente..... |
| 5. Rapporto di riduzione..... | 14. Diametro ingombro..... |
| 6. Coppia max di lavoro..... | 15. Durata in ore richiesta..... |
| 7. Distanza tra i due alberi..... | 16. Altre condizioni |
| 8. Allungamento richiesto..... | |
| 9. Angolo di lavoro..... | |

Schema dell'applicazione

Specifications to select one adapter for industrial applications

Contact.....
Company Name.....
Telephone No.....Fax No.....Email.....
Date..... N. di pages.....

Please fill in with the following data

- | | |
|-----------------------------------|--|
| 1. Power Engine.. KW..... | 10. Required max angle..... |
| 2. Turns Engine turns/1 | 11. Horizontal application..... |
| 3. Required working factor..... | 12. Vertical application..... |
| 4. Number of turns/1 adapter..... | 13. Environmental temperature..... |
| 5. Reduction ratio..... | 14. Dimensions diameter..... |
| 6. Max working torque..... | 15. Requested working life in hours..... |
| 7. Shafts distance..... | 16. Other conditions |
| 8. Required extension..... | |
| 9. Working angle..... | |

Application chart

NOTE:

[illegible]

PRODUZIONE / MANUFACTURING



Cardani DNXF 100 C extracorti
Universal shafts DNXF 100 short design



Cardani DNXF 130 e 151
Universal shafts DNXF 130 and 151



Equilibratura dinamica
Dynamic balancing



Cardani serie DNXF completi di mozzi
Universal shafts / Companion flanges



Costruzione crociere
Universal Joint manufacturing



Crociere 285 con boccole
U Joints size 285 with bearing 's caps



Crociere 490
Universal joints 490



Montaggio giunto 490
490 Joint assembling



Giunto 490
Simple Joint size 490



Giunto 490 con manconi
Companion flanges size 490



Allughe 490
Universal Joint size 490



Allughe 490
Universal Joint size 490

**IL CONTENUTO DI QUESTO CATALOGO PUO' ESSERE VARIATO SENZA
OBBLIGO DI PREAVVISO. NON CI ASSUMIAMO ALCUNA RESPONSABILITA'
PER INVOLONTARI ERRORI O OMISSIONI.**

**THE CONTENTS OF THIS CATALOGUE MAY BE CHANGED WITHOUT NOTICE.
WE ASSUME NO RESPONSABILITY FOR INADVERTENT ERRORS
OR OMISSIONS.**

EDIZIONE GENNAIO 2018 - JANUARY 2018 EDITION

SAPITFLEX Srl - Via Lainate, 20 - 20100 POGLIANO MILANESE (MI)
Tel. +3902939683.1 - Fax +390293255163 - <http://www.sapitflex.com> - E-mail info@sapitflex.com





www.sapitflex.com

SAPIT FLEX S.r.l. - Via Lainate, 20 - 20010 Pogliano Milanese (MI)

Tel. +39.02.939683.1 r.a. - Fax +39.02.93255163

e-mail: info@sapitflex.com