

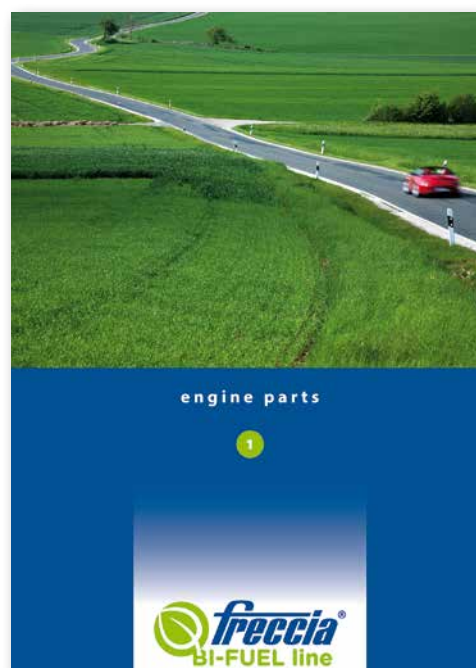
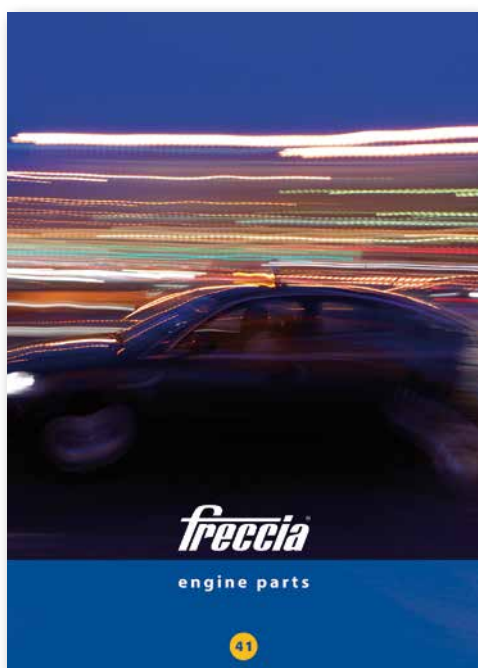
The image features three Freccia camshafts arranged vertically against a dark blue background. The central camshaft is the most prominent, showing its profile with several lobes. The two flanking camshafts are partially visible, showing their respective lobes and journals. The lighting highlights the metallic texture and the precision of the components.

freccia[®]

alberi a camme
camshafts

1

Other products:



ENGINE VALVES
ENGINE VALVE GUIDES
VALVE SHIMS
LIFTERS
ROCKER ARMS

freccia

ALBERI A CAMME

CAMSHAFTS

ARBRES À CAMMES

NOCKENWELLEN

ÁRBOLES DE LEVAS

РАСПРЕДВАЛ (РАСПРЕДЕЛИТЕЛЬНЫЙ ВАЛ)

CONDIZIONI GENERALI DI VENDITA

Le seguenti condizioni si intendono integralmente accettate dal Cliente all'atto del conferimento dell'ordine

CONVENZIONE APPLICATA

La normativa internazionale che si applica per la vendita internazionale è la CONVENZIONE DELLE NAZIONI UNITE SULLA VENDITA INTERNAZIONALE DELLE MERCI (VIENNA 11 APRILE 1980) - Convenzione di diritto uniforme

CONDIZIONI GENERALI DI GARANZIA

Freccia International srl commercializza valvole per motori prodotte da Scarpa & Colombo, Azienda certificata **ISO 9001:2000 (Vision 2000)**.

Nel caso di riscontro di difetti, il Committente ne deve dare comunicazione per iscritto a Freccia International srl **nel più breve tempo possibile** dettagliando tale reclamo. I particolari difettosi dovranno in ogni caso essere ritornati a spese del Cliente a Freccia International srl.

Nel caso che il componente, fornito difettoso, **non sia stato ancora utilizzato**, Freccia International srl rimpiazzerà lo stesso con uno conforme e senza addebito.

Per componenti **già assemblati difettosi**, Freccia International srl riconoscerà il solo costo dei propri particolari forniti non conformi.

Per ogni altra contestazione la responsabilità di Freccia International srl **resterà esclusa in caso di utilizzo e/o montaggio dei prodotti non conformemente alle specifiche condizioni** previste dal presente contratto (rif. al Par. "Regole per il corretto montaggio").

Quindi:

Freccia International srl non potrà essere ritenuta responsabile per qualsiasi altro esborso o danno conseguente l'utilizzo e/o il montaggio erroneo del prodotto o l'utilizzo e/o il montaggio di un prodotto che si riscontra già difettoso prima del montaggio.

La responsabilità di Freccia International srl resterà esclusa anche per danni derivanti ai prodotti per fatto non imputabile nemmeno indirettamente a Freccia International srl quali imballaggio, trasporto o stoccaggio dei prodotti effettuato a cura del Compratore con mezzi inadeguati.

Inoltre Freccia International srl non potrà essere ritenuta responsabile per perdite o danni subiti dal Compratore conseguentemente (ma non limitatamente a) cancellazioni di ordini da parte dei suoi Clienti, penali per ritardate consegne ai Clienti, nonché per qualsivoglia altro danno o penalità o rimborso inerente i rapporti del Compratore con i propri Clienti.

Per qualsiasi controversia è competente unicamente il Foro di Milano

ALBERO A CAMME FRECCIA Istruzioni di montaggio

Queste norme di montaggio, che vi invitiamo a seguire scrupolosamente, vi vengono fornite al fine di garantire un corretto montaggio e utilizzo dell'albero a camme FRECCIA.

Vi invitiamo a seguire attentamente le seguenti istruzioni:

- 1 Controllare attentamente che il prodotto da Voi acquistato sia identico a quello da sostituire.
- 2 Controllare che tutte le parti che sono direttamente o indirettamente a contatto con l'albero a camme non presentino usure eccessive, in caso contrario provvedere alla sostituzione.
- 3 Provvedere alla sostituzione delle punterie e martelletti al fine di evitare anomalie funzionali dell'albero a camme.
- 4 Prima di posizionare il nuovo albero a camme controllare che tutti i canali di lubrificazione siano puliti al fine di poter permettere un'efficace lubrificazione.
- 5 Provvedere alla regolazione del gioco assiale dell'albero montato osservando scrupolosamente le istruzioni riportate nel manuale di manutenzione del fabbricante del motore.
- 6 Controllare la regolazione punterie dopo circa 800 km dall'intervento.

L'inosservanza di quanto sopra riportato, unitamente alle istruzioni prescritte dal costruttore motore, comportano l'annullamento della garanzia sul prodotto.

GENERAL SALES CONDITIONS

The following terms and conditions are intended as accepted in full by the Customer to the order

AGREEMENT APPLIED

The International convention applied on international sales is the UNITED NATIONS AGREEMENT FOR THE INTERNATIONAL SALES OF GOODS -VIENNA APRIL 11TH, 1980 - that represents a uniform law agreement

GENERAL WARRANTY CONDITIONS

Freccia International srl sells engine valves manufactured by Scarpa & Colombo, a Company Certified **ISO 9001:2000 - Vision 2000**.

In case of any defect, the Purchaser must notify Freccia International srl of it **as soon as possible** in a detailed written claim.

The Purchaser must return the defective items, freight paid, to the Freccia International srl factory address.

In case of defective component we supplied and **which has not been assembled into the engine** yet, Freccia International srl will replace it with a new suitable one, free of charge.

In case of defective components we supplied and which have been assembled into the engine, Freccia International srl will refund only the cost of its own defective components.

As regards any other claim, the liability of Freccia International srl **will be excluded in case of the goods have already been used, and/or assembled without following the instructions** stated in the present agreement. - See paragraph: Instructions for a correct assembly.

Therefore:

Freccia International srl cannot be held liable for any expenditure or any other damage resulting from the wrong usage or assembly of the item or from the usage and/or assembly of an item that results already defective before the assembly.

The liability of Freccia International srl must also be excluded in case of damages to its products, indirectly attributed to Freccia International srl, such as packaging, transport, stocking of the products if caused by the Purchaser with unfit means of transport.

In addition, Freccia International srl will not be held liable for any expenditure or any other damages resulting either from cancellations of orders from its Customers, or from penalties for delayed delivery to its Customers, or from any other damage or penalty or refund concerning the relationship between the Purchaser and his own Customers.

Only the Court of Milan is competent to deal with any controversy.

FRECCIA CAMSHAFTS Installation instructions

These assembly rules are supplied in order to guarantee a proper assembly and use of FRECCIA camshafts.

We invite you to strictly follow our instructions:

- 1 Check carefully: the product you buy should be identical to the product to be replaced
- 2 Check carefully: all the parts directly or indirectly in contact with the camshaft should not have excessive wear, otherwise these components should be replaced.
- 3 Replace lifters and rocker arms in order to avoid any functional anomaly of the camshaft.
- 4 Before fitting the new camshaft: check that all oil ways are clean in order to allow a proper lubrication
- 5 Adjust the camshaft end float strictly following the instructions given in the engine manufacturer's workshop manual.
- 6 Check the lifters adjusting after around 800 km

The non-observance of what above, along with the instructions given by the engine manufacturer, will make the product warranty invalid.

ALFA ROMEO DIESEL _____	1
AUDI DIESEL _____	1
CHEVROLET _____	1
CHEVROLET DIESEL _____	1
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GUIDA ALL'USO DEL CATALOGO HOW TO USE THE CATALOGUE

ALBERI A CAMME CAMSHAFTS

ANNO year	CIL cyls	MARCA E MODELLO make-type		N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
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Anno
Year
An
Jahr
Año
Год

Cilindri
Cylinders
Cylindres
Zylinder
Cilindros
Цилиндр

Marca, motore
Make, engine
Marque, moteur
Typ, Motor
Marca, motor,
características
Марка

Alesaggio
Cylinder bore
Alésage du cylindre
Zylinderbohrung
Diámetro
Внутренний диаметр

Numero riferimento originale
Original part number
Numéro de reference première
Originalnummer
Número referencia original
Номер относящийся к оригинальному

Riferimento Freccia
Freccia reference
Référence Freccias
Freccia Nummer
Referencia Freccia
Указатель Freccia

Quote nominali
Nominal dimensions
Cotes nominales
Nennabmessungen
Dimensión nominal
Номинальная отметка

**ALBERI A CAMME
CAMSHAFTS**

ANNO year	CIL cyls	MARCA E MODELLO make-type		N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
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ALFA ROMEO DIESEL

	4	145 - 146 -147 1.9JTD 156 1.9 JTD Eng. AR3202 Eng. AR37101 Eng. 192B9.000 1910 cc.	82	60813911 60816381	CM05-2115	428	36X44.5	36X44.5	
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AUDI DIESEL

1997	V6	A4 2.5 V6 TDI 24V	78.3	059 109 021BQ	CM05-2120	405	33X37	34X38.7	IN CYL 4-5-6
	V6	A6 2.5 V6 TDI 24V		059 109 021BP	CM05-2121	405	33X37	34X38.7	IN CYL 1-2-3
1997/02	V6	Eng. AFB-AKN-AKE A8 2.5 V6 TDI 24V		059 109 022BC	CM05-2122	321	34.4X39.6	33X36.8	EX CYL 1-2-3
	V6	Eng. AFB-AKN-AKE Allroad 2.5 V6 TDI 24V		059 109 022BD	CM05-2123	321	34.4X39.6	33X36.8	EX CYL 4-5-6
2000	V6	Eng. AKE 2496 cc.							
1999	4	A2 1.4 TDI Eng. AMF 1422 cc.	79.5	045 109 101C	CM05-2124	336	52.8X61.6		
2000	4	A3 - A4 - A6 1.9 TD Eng. ASM-ANV-ASZ-ATD Eng. BXE 1896 cc.	81	038 109 101R	CM05-2126	426	52.8X61.70	52.8X61.70	
2004	4	A4 2.0 TDI Eng. BPW-BRC 1968 cc.	81	038 109 101AH	CM05-2127	426	52.8X61.70	52.8X61.70	


CHEVROLET

1986	3	Tico-Matiz Eng. F8- F8CV 796 cc.	68.5	1271078B10	CM05-2154	353	31X36.1	31X36.2	
1997	4	Lanos 1.4i 8V Eng. 13SMS 1397 cc.	76.5	A96352886	CM05-2155	433	26X31.7	26X32.3	

CHEVROLET DIESEL

2011	4	Aveo 1.3D 16V 1248 cc.	69.6	46823508 46823507	CM05-2110 CM05-2109	340 355	30X33.2 30X33.2	30X33.2 30X33.2	IN EX

**ALBERI A CAMME
CAMSHAFTS**

ANNO year	CIL cyls	MARCA E MODELLO make-type		N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
CITROËN DIESEL									
2005 2003 2002 2003 2008	4	C1 1.4 HDI C2 1.4 HDI C3 1.4 HDI Xsara 1.4 HDI Nemo 1.4 HDI Eng. 8HX-8HZ(DV4TD) 1398 cc.	73.7	0801.CY	CM05-2144	411	33.8X38.3		
2005 2004 2005 2004 2004	4	C3 1.6 HDI 16V Eng. 9HX-9HZ DV6TED4 1560 cc. C4 1.6 HDI 16V Eng. 9HX-9HY-9HZ DV6TED4 Berlingo 1.6 HDI 16V Eng. 9HX-9HY-9HZ DV6TED4 1560 cc. C5 1.6 HDI 16V Eng. 9HZ-9HY(DV6TED4) 1560 cc. Xsara Picasso 1.6 HDI 16V Eng. 9HZ-9HY(DV6TED4) 1560 cc.	75	0801.AH 1313805 3M5Q6A273AC 0801.Z9 3M5QA270AC 1313804	CM05-2145 CM05-2146	390 402	33.8X37.5 33.9X37.5		EX IN
1993 1993 1994 1996 1993 1994	4	ZX Break 1.7 Berlingo Eng. XUD7 1769 cc. ZX Break 1.9 Xantia 1.9 Berlingo 1.9 Xantia S/SX Jumpy 1.9D Eng. XUD9A 1905 cc.	80 83	0801.E8 96031042 9603104288	CM05-2141	492	39X48.3	39X48.3	
2001 2002	4	C5 2.2 HDI 16V C8 2.2 HDI 16V Eng. 4HX-4HW Eng. DW12TEDA4 FAP 2179 cc.	85	0801.V9 0801.W0	CM05-2103 CM05-2102	402 456	33.8X37.8 33.8X37.9		IN EX

**ALBERI A CAMME
CAMSHAFTS**

ANNO year	CIL cyls	MARCA E MODELLO make-type	 ←0→	N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Length mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
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
segue CITROËN DIESEL

1998	4	Xantia - Xsara 2.0 TD Eng. DW 10 1997 cc.	85	0801.T5	CM05-2142	450	34X38.6	34X38.6	
1999	4	Evasion 2.0 HDI Eng. RHZ (DW10ATED)	85						
1999		Xantia 2.0 HDI							
1999		Xsara Picasso 2.0 HDI Eng. RHY-RHZ Eng. DWTD/ATED							
1999		Jumpy 2.0 HDI Eng. RHY-RHX-RHZ Eng. DW10TD/ATED/BTED							
2001		C5 2.0 HDI Eng. RHZ (DW10ATED) 1997 cc.							
2004	4	C4 2.0 HDI 16V C5 2.0 HDI 16V Eng. RHR(DW10BTED4) 1997 cc.	85	0801.T5	CM05-2142	450	34X38.6	34X38.6	
1994	4	Jumper 2.5D 12V Eng. T9A-DJ5 2446 cc.	92	0801.I2	CM05-2143	553	29.5X34.7	29.5X34.7	

DAIHATSU

	3	Charade 1.0 993 cc.	76	1351187710 1351187704	CM05-2157	370	33.5X40	33.5X40	
1988	4	Charade 1.3 16V Terios 1.3 16V Eng. HCE 1295 cc.	76	1350187103 1350187112	CM05-2156	430	28X32.9	28X33	


**ALBERI A CAMME
CAMSHAFTS**

ANNO year	CIL cyls	MARCA E MODELLO make-type		N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
FIAT									
1989	4	Uno 70 ie Eng. 146C1.000 1372 cc.	80.5	7552612	CM05-2113	447	28X37.2	28X37.4	
1995/96	4	Brava 1.4 ie S - SX - 12V Bravo 1.4 ie S - SX - 12V Eng. 182A3.000 Eng. 182A5.000 1370 cc.	82	7724588	CM05-2111	404	36X42	36X42	Motori con punteria idraulica Engine with hydraulic lifter
2002	4	Ducato 2.0 Eng. RFL 1998 cc.	86	9637805488	CM05-2167	473	36.7x47.8		
1995 1995 1996 1996	4	Brava 1.6 ie 16V Bravo 1.6 ie 16V Marea 1.6 ie 16V Marea 1.6 ie 16V BP Palio 1.6 ie 16V Eng. 182A4.000 Eng. 182A6.000 1581 cc.	86.4	46530226 46530232 46530234 46530233 46530228 46466370 46530230	CM05-2164 CM05-2163	434 434	34X43 34X43.3		EX IN
FIAT DIESEL									
2003 2007 2009	4	Punto 1.3 MJT 16V Panda 1.3 MJT 16V Idea 1.3 MJT 16V 500 1.3 MJT 16V Qubo 1.3 MJT 16V Eng. 188A9.000 Eng. 169A.1000	69.6	46823508 46823507	CM05-2110 CM05-2109	340 355	30X33.2 30X33.2	30X33.2 30X33.2	IN EX
2006	4	Grande Punto 1.3 MJT 16V Eng. 199A2.000 Eng. 199A3.000 1248 cc.							
1999	4	Stada 1.9 JTD Eng. 223A6.000 1910 cc.	82	46523711	CM05-2114	428	36X45.5	36X44.5	
2001	4	Doblò 1.9JTD Eng. 182B.9000 1910 cc.	82	46772393	CM05-2108	428	36X44.5	36X44.5	
2000	4	Bravo-Marea 1.9JTD Eng. 182B4.000 Eng. 182B9.000 1910 cc.	82	46455736	CM05-2115	428	36X44.5	36X44.5	

**ALBERI A CAMME
CAMSHAFTS**

ANNO year	CIL cyls	MARCA E MODELLO make-type		N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
segue FIAT DIESEL									
1992	4	Uno 1.7D Fiorino 1.7D Eng. 146B2.000 1697 cc.	82.6	46444230	CM05-2104	437	38X46.8	38X46.8	Up to Engine 2264028 Attacco depressore mm 9 Camshaft driven vacuum mm 9
1992	4	Uno 1.7D Fiorino 1.7D Eng. 146B2.000 1697 cc.	82.6	46552984	CM05-2117	437	38X46.8	38X46.8	From Eng. 2264029 Attacco depressore mm. 8 Camshaft driven vacuum mm 8
1987/94	4	Ducato 1.9D Eng. 149B1.000 1929 cc.	82.6	5950297	CM05-2106	437	38X46.8	38X46.8	Attacco depressore mm 9 Camshaft driven vacuum mm 9
1990/97 1990/96 1990/97		Tempra 1.9 TD Tipo 1.9 TD Marengo 1.9 TD Eng. 160A6.000/A6.046 Eng. 160D1.000 1929 cc.	82.6	46444253 46552982T9	CM05-2101	437	38X47	38X47	Up to engine N. 2264028 Attacco depressore mm 9 Camshaft driven vacuum mm 9
1995	4	Bravo-Brava 1.9D Tipo 1.9D Eng. 160A7.000 1929 cc.	82.6	46552982	CM05-2116	437	37X47.5	38X47.5	From Eng. 2264029 up to Eng. 2264028 Attacco depressore mm 8.20 Camshaft driven vacuum mm 8.20
2000	4	Ulysse 2.0 Eng. RHW 1997 cc.	85	9627040588 9627037188	CM05-2103 CM05-2102	402 456	33.8X37.8 33.8X37.9		IN EX
2001	4	Ulysse 2.2 JTD Eng. 4HW 2179 cc.							
1999 1999 1999	4	Ulysse 2.0 JTD Ducato 2.0 JTD Scudo 2.0 JTD Eng. RHZ-RHX-RHV 1998 cc.	85	9624835288	CM05-2142	450	34X38.6	34X38.6	
1984	4	Ducato TD Argenta TD Eng. 8144.61 Eng. 8144.81 2445 cc.	93	7301255	CM05-2105	504	38X48.4	38X48.4	

**ALBERI A CAMME
CAMSHAFTS**

ANNO year	CIL cyls	MARCA E MODELLO make-type	 ←-Ø→	N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
FORD									
1985	4	Fiesta 1.0i Eng. TLB 999 cc. Escort 1.0 Eng. GSF 1117 cc.	68.7	97BM6251BB 6029395 1641007 1041777 7062358 1045599 6165215	CM05-2158	395	27.5x33	27x32.7	
1986 1987/89 1986/90	4	Escort 1.4 Eng. FUA-FUC Fiesta 1.4 Eng. FUB-FUD Orion 1.4 Eng. F6B-F6D-FUA-FUC 1392 cc. Zetec	77.24	1614766 B1SM6251KE 81FM6251KB	CM05-2153	446	31.5X37.2	32.5X38.3	
FORD DIESEL									
2009	4	KA 1.3 TDCi Eng. FD4 1242 cc.	69.6	46823508 46823507	CM05-2110 CM05-2109	340 355	30X33.2 30X33.2	30X33.2 30X33.2	IN EX
2001 2002 2004	4	Fiesta 1.4TDCi Fusion 1.4 TDCi Fiesta Van 1. TDCi Eng. F6JA/F6JB 1399 cc.	73.7	2S6Q6250AD	CM05-2144	411	33.8X38.3		
1995	4	Galaxy 1.9 Tdi Eng. ANU-AUY-ASZ 1896 cc.	79.5	038 109 101R	CM05-2126	426	52.8X61.70	52.8X61.70	
1990	4	Escort 1.8D - 1.8TD Eng. RFA-RFB-RFD Eng. RFK-RFL-RFM Eng. RFN-RFS-RTA Eng. RTB-RTC 1753 cc.	82.5	6173095 89FF6250AA 1077095	CM05-2152	485	41.3X50.3	36.7X46.8	
HYUNDAI DIESEL									
1991	4	Galloper 2.5 TD Eng. D4BH 2476 cc.	91.1	MD137163	CM05-2119	461	31X36.55	31X36.55	
1993 1991	4 4	Porter 2.5 D Eng. D4BA-D4BX 2476 cc. H1 2.5 D - TD Eng. D4BB - D4BF 2476 cc.	91.1 91.1	MD050140	CM05-2118	461	31X37	31X37	


**ALBERI A CAMME
CAMSHAFTS**

ANNO year	CIL cyls	MARCA E MODELLO make-type		N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
IVECO									
	4	Daily Eng. 8140.27 Eng. 8140.43 2798 cc. Eng. 8144.97 2499cc.	93	98427674	CM05-2147	504	38X48.4	40X49.4	
LANCIA									
1996/00	4	Y 1.4 ie 12V Eng. 840A4.000-840A2.000 1371 cc.	82	7724588	CM05-2111	404	36X42	36X42	Motori con punteria idraulica Engine with hydraulic lifter
LANCIA DIESEL									
1999	4	Lybra 1.9JTD Eng. AR323.02 1910 cc.	82	46455736	CM05-2115	428	36X44.5	36X44.5	
2001	4	Lybra 1.9JTD Eng. 182B.9000 1910 cc.	82	46772393	CM05-2108	428	36X44.5	36X44.5	
1999	4	Zeta 2.0 JTD Eng. RHZ 1998 cc.	85	9624835288	CM05-2142	450	34X38.6	34X38.6	
2000	4	Zeta -Phedra 2.0 JTD 16V Eng. RHW 1997 cc.	85	9627040588 9627037188	CM05-2103 CM05-2102	402 456	33.8X37.8 33.8X37.9		IN EX
2002	4	Phedra 2.2 JTD Eng. 4HW 2179 cc.							
MAZDA DIESEL									
2003	4	2 1.4 CDTi Eng. F6JA-F6JB 1398 CC.	73.7		CM05-2144	411	33.8X38.3		

**ALBERI A CAMME
CAMSHAFTS**

ANNO year	CIL cyls	MARCA E MODELLO make-type		N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
MERCEDES BENZ									
1995	4	C 180 1.8i 16V Eng. 111.920 1788 cc.	85.3	1110501801 1110501901 00A109102	CM05-2162 CM05-2131	428.5 428.5	40.90X50.20 37.20X46.40		IN EX
1996	4	200 E-CE 2.0 i 16V Eng. M111.940	89.9						
1997		C 200 2.0 i 16V							
1996		CLK 200 2.0 i 16V Eng. M111.941/945							
1996		C200 2.0 i 16V Komp.							
1995		CLK 200 2.0 i 16V Komp. Eng. M111.944							
1996		E 200 2.0 i 16V Eng. M111.940/942							
1997		SLK 200 2.0 i 16V Eng. M111.946							
1997		SLK 200 2.0 i 16V Komp. Eng. M111.943							
1999		E 200 2.0 i 16V Komp. Eng. M111.947 1998 cc.							
1992/96	4	220 E-CE 2.2 i 16V E220 2.2 i 16V Eng. M111.960 2199 cc.	89.9						
1993/96	4	C220 2.2 i 16V Eng. M111.961 2198 cc.							
1982	4	190 Eng. M102.922 1997 cc.	89	1020505501 1020504801 1020504501	CM05-2130	446	34x40.6	34x40.6	
	4	190 2.3 Eng. M102.982 2298 cc.	95	1020502501					
MINI DIESEL									
2006	4	Mini Cooper D Eng. R55/56 1560 cc.	75		CM05-2145 CM05-2146	390 402	33.8X37.5 33.9X37.5		EX IN

**ALBERI A CAMME
CAMSHAFTS**

ANNO year	CIL cyls	MARCA E MODELLO make-type	 ←0→	N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
MITSUBISHI DIESEL									
1986		L300 2.5 Eng. 4D56	91.1	MD137163 MD302333	CM05-2119	461	31X36.55	31X36.55	
1988/91 1988/91		L200 2.5 TD L300 2.5 TD Eng. 4D56T 2477 cc.							
1991	4	L200 2.5 TD L300 2.5 TD Eng. 4D56T-4D56TD 2477 cc.	91.1	MD050140	CM05-2118	461	31X37	31X37	
NISSAN DIESEL									
2003 2002 2006 2006 2007	4	Micra 1.5 Dci Tekna Almera 1.5 Dci Note 1.5 Dci Qashqai 1.5 Dci Tiida 1.5 Dci Eng. K9K 1461 cc.	76	8200089894 8200718120	CM05-2151 CM05-2148	453 452	35.8X44.6 36X45	35.8X44	Con sensore di fase With phase sensor
2007	4	Qashqai 2.0 DCI X-Trail 2.0 DCI Primastar 2.0 DCI Eng. M9R-M1D 1995 cc.	84	8200718120	CM05-2148	452	36X45		Con sensore di fase With phase sensor
1986/97 1997/00	6 6	Patrol Td Eng. RD28T Patrol 2.8 TD Intercooler Eng. RD28TI 2826 cc.	85	13020 VB100	CM05-2100	649	39.5x48	40x49.5	
2002 2003	4	Interstar 2.5 Dci 16V Primastar 2.5 Dci 16V Eng. G9U.A7 2463 cc.	89	8200019181 8200019183	CM05-2165 CM05-2166	507.3 486.5	40X35 40.12X35		IN EX


**ALBERI A CAMME
CAMSHAFTS**

ANNO year	CIL cyls	MARCA E MODELLO make-type		N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
OPEL									
1997 2000	4 4	Corsa 1.2 i 16V Agila 1.2 i 16V Eng. X12XE 1199 cc.	72.5	636024 636025	CM05-2136 CM05-2137	343 343	36X40.1 36X39.90		IN EX
1979/88 1982/93	4	Ascona 1.3 Corsa 1.3 Eng. 13S 1297 cc.	75	636000 636002 636053 636052 90167124 90281486 90156986	CM05-2134	433	26.1X31.8	26.1X31.8	
1991/98 1989/93 1990/96 1990/91 1990/91 1988/92 1989/91 1990	4	Astra 1.4 Corsa 1.4 Corsa 1.4 i Kadett 1.4 Kadett 1.4 i Vectra 1.4 Combo 1.4 Combo 1.4 i Eng. C14NZ 1389 cc.	77.6	636010 606014 90444760 90392539	CM05-2135	432	26.1X32	26.1X35	


**ALBERI A CAMME
CAMSHAFTS**

ANNO year	CIL cyls	MARCA E MODELLO make-type		N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
OPEL DIESEL									
2003	4	Agila 1.3 16V CDTI Corsa 1.3 16V CDTI Meriva 1.3 16V CDTI	69.6	5630059 93177302	CM05-2110	340	30X33.2	30X33.2	IN
2005		Astra 1.3 16V CDTI Tigra 1.3 16V CDTI Eng. Z13CDTI 1248 cc.		93177303 5636060	CM05-2109	355	30X33.2	30X33.2	EX
2000	4	Astra 1.7 DTI 16V Corsa 1.7 DTI 16V	79	636027 636028	CM05-2138 CM05-2139	425 390	37.45X45.65 37.6X46		IN with gear 55 mm
2003		Meriva 1.7 DTI 16V							EX with gear
2001		Combo 1.7 DTI 16V							55 mm
2000		Combo Van 1.7 DTI 16V Eng. Y17DT/DTL Eng. Z17DTL 1686 cc.							
1982	4	Ascona 1.6 D Kadett 1.6 D	80	636121 90273386	CM05-2140	436	36X44.5		
1984/99		Combo 1.6 D Eng. 16DA 1598 cc.		90273368 80284704					
1991	4	Astra 1.7 D	82.5						
1989/91		Kadett 1.7 D							
1988		Vectra 1.7 D							
1988/92		Combo 1.7 D Eng. 17D-17DR							
1998		Astra 1.7 D							
1990		Vectra 1.7 D Eng. X17DTL 1700 cc.							
2001	4	Movano 2.5 DTI 16V Eng. G9U.A7	89	8200019181 8200019183	CM05-2165 CM05-2166	507.3 486.5	40X35 40.12X35		IN EX
2003		Vivaro 2.5 DTI 16V Eng. G9U.B7 2463 cc.							


**ALBERI A CAMME
CAMSHAFTS**

ANNO year	CIL cyls	MARCA E MODELLO make-type	 ↔-Ø↔	N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
PEUGEOT DIESEL									
2001 2005 2005 2001 2005 2008	4	307 1.4 HDI 1007 1.4 HDI 107 1.4 HDI 206 1.4 HDI 207 1.4 HDI Bipper Tepee 1.4 HDI Eng. DV4 TD-8HX-8HZ 1398 cc.	73.7	0801.CY	CM05-2144	411	33.8X38.3		
2004 2004 2004 2005 2005	4	206 1.6 HDI 16V 307 1.6 HDI 16V 407 1.6 HDI 16V 207 1.6 HDI 16V Ranch 1.6 HDI 16V Eng. 9HY-9HZ (DV6TED4) 1560 cc.	75	0801.AH 0801.Z9 3M5QA270AC	CM05-2145 CM05-2146	390 402	33.8X37.5 33.9X37.5		EX IN
1986 1988 1991 1993/95	4	205 D 309 GLD - GRD - SRD 309 XAD - XLD - XRD Eng. XUD9 - 162 1905 cc. Eng. XUD9 - 162 405 GLD - GRD 309 SRD - GRD J5 Eng. XUD9A 306 SRD - GRD Eng. XUD7 - XUD9 1905 cc.	83	0801.E8 96031042 9603104288	CM05-2141	492	39X48.3	39X48.3	
	4 4	Eng. DW10ATED4 1997 cc. Eng. DW12TED4/FAP 2179 cc.	85	0801.V9 0801.W0	CM05-2103 CM05-2102	402 456	33.8X37.8 33.8X37.9		IN EX
1999 1999 1999 2000 2000 2000 2000	4	206 2.0 HDI 306 2.0 HDI 406 2.0 HDI 307 2.0 HDI 806 2.0 HDI Expert 2.0 HDI Ranch 2.0 HDI Eng. DW10TD-RHY-RHZ Eng. DW10ATED-RHY-RHZ Eng. DW10BTED-RHX 1998 cc.	85	0801.T5	CM05-2142	450	34X38.6	34X38.6	

ALBERI A CAMME CAMSHAFTS

ANNO year	CIL cyls	MARCA E MODELLO make-type	 ←0→	N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
segue PEUGEOT DIESEL									
2003 2004 2005	4	307 2.0 HDI 16V 407 2.0 HDI 16V 607 2.0 HDI 16V Eng. DW10BTED4-RHR 1997 cc.	85	0801.T5	CM05-2142	450	34X38.6	34X38.6	
1994	4	Boxer 2.5 TD12V Eng. T9A-DJ5 2446 cc.	92	0801.L2	CM05-2143	553	29.4X34.7	29.4X34.7	
2000	4	Jumper 2.8 HDI Eng. 8140.43S 2798 cc.	94.4	0801.V8	CM05-2147	504	38X48.4	40X49.4	
2004	4	Jumper 2.8 HDI Eng. 8140.43N 2798 cc.	94.4	0801.V8	CM05-2147	504	38X48.4	40X49.4	

**ALBERI A CAMME
CAMSHAFTS**

ANNO year	CIL cyls	MARCA E MODELLO make-type		N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
RENAULT DIESEL									
2001 2004 2003 2004 2001	4	Clio II 1.5 Dci Modus 1.5 DCI Megane 1.5 DCI Twingo 1.5 DCI Scenic 1.5 DCI Eng. K9K.B7/E7/N7/T7 Kangoo 1.5 DCI Kangoo Express 1.5 DCI Eng. K9K.A7/B7/V7 1461 cc.	76	8200089894 8200718120	CM05-2151 CM05-2148	453 452	35.8X44.6 36X45	35.8X44	Con sensore di fase With phase sensor
1998	4	Clio II 1.9 D Kangoo 1.9 D Eng. F8Q 600-606-622 Eng. F8Q630-632-662 Eng. F8Q690 1870 cc.	80	7700106678	CM05-2150	461	36.1X46	36.1X45	
2000	4	Clio 1.9 DTI Eng. F9Q 710-716-718 Eng. F9Q731-736 1870 cc.	80	8200043152	CM05-2168	462	36X46,2	36X44,8	
2003 2003 2002 2002 2008	4	Scenic 2.0 DCI Megane 2.0 DCI Laguna 2.0 DCI Vel Satis 2.0 DCI Koleos 2.0 DCI Eng. M9R 700 - 740 760 Eng. M9R 780-832 1995 cc.	84	8200718120	CM05-2148	452	36X45		
1996 1996 1997	4	Espace 2.2 TD 12V Eng. G8T.714/716 Laguna 2.2 TD 12V Eng. G8T.760 Safrane 2.2 TD 12V Eng. G8T.740 2188 cc.	87	7700869325	CM05-2149	484	36X42	36X42.4	

**ALBERI A CAMME
CAMSHAFTS**

ANNO year	CIL cyls	MARCA E MODELLO make-type		N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Length mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
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
segue RENAULT DIESEL

2002	4	Avantime 2.2 DCI 16V Eng. G9T.L7	87	8200019181 8200019183	CM05-2165 CM05-2166	507.3 486.5	40X35 40.12X35		IN EX
2000		Espace 2.2 DCI 16V Eng. G9.TA7/J7/K7							
2001		Laguna 2.2 DCI 16V Eng. G9T.7							
2004		Laguna 2.2 DCI 16V Eng. G9T.7/A6							
2002		Vel Satis 2.2 DCI 16C Eng. G9T.7/A6D7/E7							
2000		Master 2.2 DCI 16V Eng. G9T.C7/F7							
2003	4	Traffic 2.5 DTI 16V Eng. G9U.B7	89						
2001		Master 2.5 DTI 16V Eng. G9U.A7							
1996	4	Master 2.8 TD Eng. S9W.700	94.4	7701035738	CM05-2147	504	38X48.4	40X49.4	
1999		Mascott 2.8 TD Intercooler Eng. 8140.43B-C-S-N							
		2798 cc.							


SEAT

1997	4	Arosa 1.0 i	67.1	030 109 101BG	CM05-2128	426	52.8X61.70	52.8X61.70	
1996		Cordoba 1.0 i							
1997		Ibiza 1.0 i Eng. AER-ALL							
		999 cc.							


**ALBERI A CAMME
CAMSHAFTS**

ANNO year	CIL cyls	MARCA E MODELLO make-type		N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
SEAT DIESEL									
2000 2002 2002	3	Arosa 1.4 TDI Ibiza 1.4 TDI Cordoba 1.4 TDI Eng. AMF-BNM-BNV 1422 cc.	79.5	045 109 101C	CM05-2124	336	52.8X61.6		
2000 2002 2002	4	Alhambra 1.9 TDI Eng. AUU Cordoba 1.9 TDI Ibiza 1.9 TDI Eng. ATD	79.5	038 109 101R	CM05-2126	426	52.8X61.70	52.8X61.70	
2002 2002 2002 2002 2003 2003	4	Alhambra 1.9 TDI Cordoba 1.9 TDI Ibiza 1.9 TDI Leon 1.9 TDI Toledo 1.9 TDI Eng. ASZ	79.5						
2001 2001 2000	4	Ibiza 1.9 TDI Leon 1.9 TDI Toledo 1.9 TDI Eng. ARL 1986 cc.	79.5						
2005	4	Leon 2.0 TDI Toledo 2.0 TDI Eng. BMM 1968 cc.	81	038 109 101AH	CM05-2127	426	52.8X61.70	52.8X61.70	
SKODA DIESEL									
2006 2007	4	Roomster 1.4 TDI Praktik 1.4 TDI Eng. BNM-BNV-AMF 1422 cc.	79.5	045 109 101C	CM05-2124	336	52.8X61.6		
2000 2000	4	Fabia 1.9 TDI Octavia 1.9 TDI Eng. ATD	79.5	038 109 101R	CM05-2126	426	52.8X61.70	52.8X61.70	
2002	4	Superb 1.9 TDI Eng. AVB-AVF-AWX							
2003 2003	4	Fabia 1.9 TDI Octavia 1.9 TDI Eng. ASZ							
2008 2006	4	Superb 1.9 TDI-PD Roomster 1.9 TDI-PD Eng. BLS-BXE-BSW 1896 cc.							
2005	4	Roomster 1.9 TDI Eng. BLS-BMM 1968 cc.	81	038 109 101AH	CM05-2127	426	52.8X61.70	52.8X61.70	

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CAMSHAFTS**

ANNO year	CIL cyls	MARCA E MODELLO make-type	 ←0→	N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
SMART									
1998	3	Smart Eng. M160	63.5	Q0003067V003000	CM05-2129	259.4	36X40.4	36X40.4	
2002	3	Crossblade 600 Eng. M160							
		599 cc							
2003	3	Smart City							
2004		Fortwo							
2003		Roadster Eng. M160.910							
		698 cc.							
SUZUKI									
1983	4	Jimmy SJ 40 1.0	65.5	1271080002	CM05-2133	420	31X36.1	31X36.1	
1985		Super Carry 1.0		1271077314	CM05-2132	420	31X36.1	31X36.1	
1988		Samurai 1.0 Eng. F10A		1271077300					
		970 cc.							
SUZUKI DIESEL									
2003	4	Jimmy 1.5DDiS Eng. K9K	76	8200089894	CM05-2151	453	35.8X44.6	35.8X44	
		1461 cc.							
TOYOTA DIESEL									
1999	4	Avensis 2.0 D4-D 16V	82.2	13501-27011	CM05-2159	430	39.3x46.4		IN
1999		Corolla 2.0 D4-D 16V		13502-27011	CM05-2160	472	39.3x47.5		EX
2001		Previa 2.0 D4-D 16V							
2001		Rav 4 2.0 D4-D 16V Eng. 1CD-FTV							
		1995 cc.							

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ANNO year	CIL cyls	MARCA E MODELLO make-type		N. ORIGINALE o.e. number	RIFERIMENTO FRECCIA Freccia reference	LUNGH. Lenght mm.	CAM 1 Ø mm	CAM 2 Ø mm	NOTE remarks
VOLKSWAGEN									
1996/99	4	Polo 1.0 i Lupo 1.0 i Eng. AER - ALL 999 cc.	67.1	030 109 101BG	CM05-2128	426	52.8X61.70	52.8X61.70	
VOLKSWAGEN DIESEL									
1999	4	New Beetle 1.9 TDI	79.5	038 109 101R	CM05-2126	426	52.8X61.70	52.8X61.70	
1999/01		Bora 1.9 TDI							
1998/01		Golf 1.9 TDI							
1998/00		Passat 1.9 TDI							
2000		Sharan 1.9 TDI Eng. AJM-ATJ							
1999/03	4	Sharan 1.9 TDI Eng. ANU							
2001	4	New Beetle 1.9 TDI							
		Polo 1.9 TDI							
2000		Golf 1.9 TDI							
2000		Bora 1.9 TDI Eng. ATD							
2000	4	Golf 1.9 TDI							
2000		Bora 1.9 TDI							
2003		Polo 1.9 TDI							
2002		Sharan 1.9 TDI Eng. ASZ-ARL							
2000	4	Passat 1.9 TDI Eng. AVB - AVF - AWX							
2003	4	Golf 1.9 TDI Eng. BKC							
2003	4	Transporter 1.9 TDI							
2003		Multivan 1.9 TDI Eng. AXC-AXB 1896 cc.							
1999	3	Lupo - Polo 1.4 TDI Eng. AMF-BAY 1422 cc.	79.5	045 109 101C	CM05-2124	336	52.8X61.6		
2004	4	Golf 1.9 TDI Eng. BLR-BRS-BSU 1896 cc.	81	038 109 101AH	CM05-2127	426	52.8X61.70	52.8X61.70	
2003	5	Touareg 2.5 TDI R5 10V Eng. BAC-BLK 2460 cc.	79.5	070 109 101P	CM05-2125	500	52.8X61.6		
	5	Transporter 2.5 TDI Multivan 2.5 TDI Tuareg 2.5 TDI Eng. BNZ-BPC-BPD-BPE 2461 cc.	81	070 109 101Q	CM05-2161	500	52.8X61.6		

CROSS REFERENCE GUIDE

O.E. number	Freccia number	O.E. number	Freccia number	O.E. number	Freccia number	O.E. number	Freccia number
00A109102	CM05-2131	1271080002	CM05-2133	5636060	CM05-2109	90156986	CM05-2134
030 109 101BG	CM05-2128	13020 VB100	CM05-2100	5950297	CM05-2106	90167124	CM05-2134
038 109 101AH	CM05-2127	1313804	CM05-2146	6029395	CM05-2158	90273386	CM05-2140
038 109 101R	CM05-2126	1313805	CM05-2145	606014	CM05-2135	90281486	CM05-2134
045 109 101C	CM05-2124	13501-27011	CM05-2159	60813911	CM05-2115	90392539	CM05-2135
059 109 021BP	CM05-2121	1350187103	CM05-2156	60816381	CM05-2115	90444760	CM05-2135
059 109 021BQ	CM05-2120	1350187112	CM05-2156	6165215	CM05-2158	93177302	CM05-2110
059 109 022BC	CM05-2122	13502-27011	CM05-2160	6173095	CM05-2152	93177303	CM05-2109
059 109 022BD	CM05-2123	1351187704	CM05-2157	636000	CM05-2134	96031042	CM05-2141
070 109 101P	CM05-2125	1351187710	CM05-2157	636002	CM05-2134	9603104288	CM05-2141
070 109 101Q	CM05-2161	1614766	CM05-2153	636010	CM05-2135	9624835288	CM05-2142
0801.AH	CM05-2145	1641007	CM05-2158	636024	CM05-2136	9627037188	CM05-2102
0801.CY	CM05-2144	2S6Q6250AD	CM05-2144	636025	CM05-2137	9627040588	CM05-2103
0801.E8	CM05-2141	3M5Q6A273AC	CM05-2145	636027	CM05-2138	9637805488	CM05-2167
0801.L2	CM05-2143	3M5QA270AC	CM05-2146	636028	CM05-2139	97BM6251BB	CM05-2158
0801.T5	CM05-2142	46444230	CM05-2104	636052	CM05-2134	984277674	CM05-2147
0801.T5	CM05-2142	46444253	CM05-2101	636053	CM05-2134	A96352886	CM05-2155
0801.V8	CM05-2147	46455736	CM05-2115	636121	CM05-2140	B1SM6251KE	CM05-2153
0801.V9	CM05-2103	46466370	CM05-2163	7062358	CM05-2158	MD050140	CM05-2118
0801.W0	CM05-2102	46523711	CM05-2114	7301255	CM05-2105	MD137163	CM05-2119
0801.Z9	CM05-2146	46530226	CM05-2164	7552612	CM05-2113	MD302333	CM05-2119
1020502501	CM05-2130	46530228	CM05-2163	7700106678	CM05-2150	Q0003067V003000	CM05-2129
1020504501	CM05-2130	46530230	CM05-2163	7700869325	CM05-2149		
1020504801	CM05-2130	46530232	CM05-2164	7724588	CM05-2111		
1020505501	CM05-2130	46530233	CM05-2164	80284704	CM05-2140		
1041777	CM05-2158	46530234	CM05-2164	81FM6251KB	CM05-2153		
1045599	CM05-2158	46552982	CM05-2116	8200019181	CM05-2165		
1077095	CM05-2152	46552982T9	CM05-2101	8200019183	CM05-2166		
1110501801	CM05-2162	46552984	CM05-2117	8200043152	CM05-2168		
1110501901	CM05-2131	46772393	CM05-2108	8200089894	CM05-2151		
1271077300	CM05-2132	46823507	CM05-2109	8200718120	CM05-2148		
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I riferimenti e le denominazioni originali sono esposti a puro titolo indicativo poiché i suddetti materiali NON SONO ORIGINALI, ma con questi intercambiabili.

The valves manufactured by us are not original ones but perfectly interchangeable. The original references are shown only for identification.

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