

Rightangle

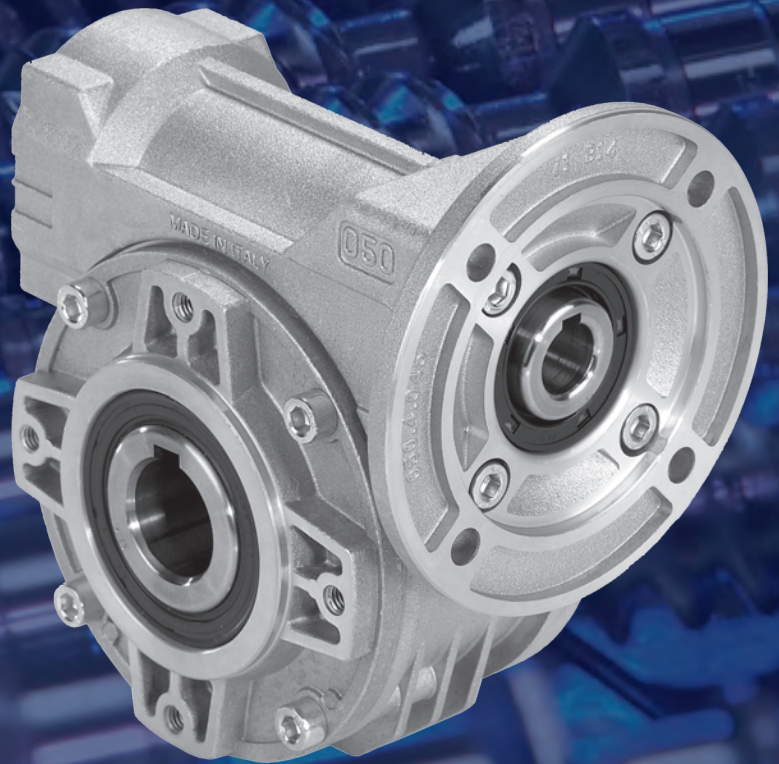
Gears



Cat.: CT-VFP-BS-HM012

Worm gearboxes

Riduttori a vite senza fine



Nema-Inch Range

HYDRO · MEC

Worm gearboxes type 045 ÷ 085

A modular and compact product

Single-piece aluminum alloy housing

Is vacuum impregnated (MIL-STD 276) for protection and sealing. No secondary finish required but readily accepts paint. Combines light weight with high tensile strength. Precision machined for alignment of bearings and gearing.

Single piece alloy steel input shaft and worm shaft.

High helix angle worm is case-hardened (Rc 58-60), ground, teeth are profiled and radiused, for noise reduction and enhanced efficiency.

Oversized bearings

Support positively-retained, high speed shaft for higher shock load capacity - ideal for frequent starting and reversing application. Premium, Nitrile® high temperature seals each end.

Flange

Fully modular to IEC and compact integrated motor. NEMA C flange.

Premium, high temperature

Nitrile® output seals

Bronze alloy worm gears.

Is centrifugally cast onto an iron hub for maximum strength and superior life.

Oversize bearing

For radial load capability and maximum hollow output shaft diameter.

Standard hollow output shaft mounting

Reduces total drive envelope size, weight and cost. Single and double solid output shaft is available.

Impregnated and machined bearing caps

With exterior machined surfaces enable a variety of mounting accessories. Extra-deep thread engagement provided for greater support strength. Zinc plated hardware.

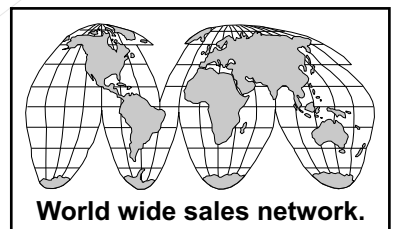
Vent Free Design.

No breather or vents to leak! Factory lubricated for life with synthetic, semi-fluid gear lubricant with an operating range of -15°C to 130°C.

oil free



vent free

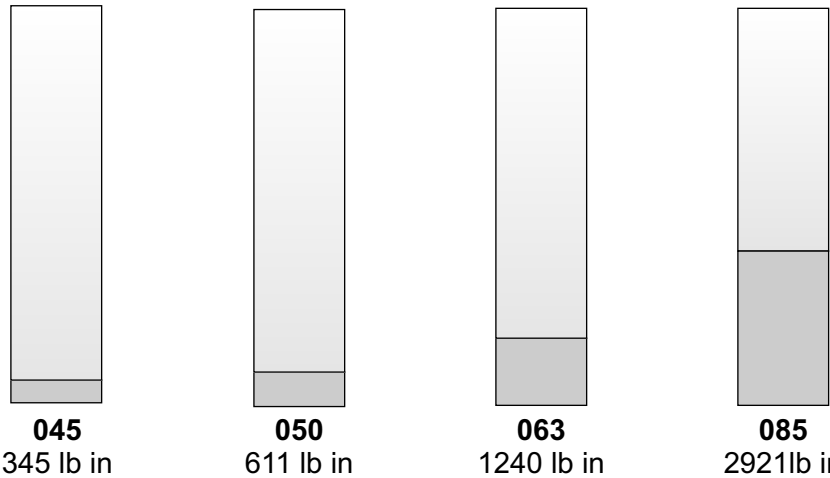


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2-3 2-5 2-7 2-9



Types / tipi / Tipos →

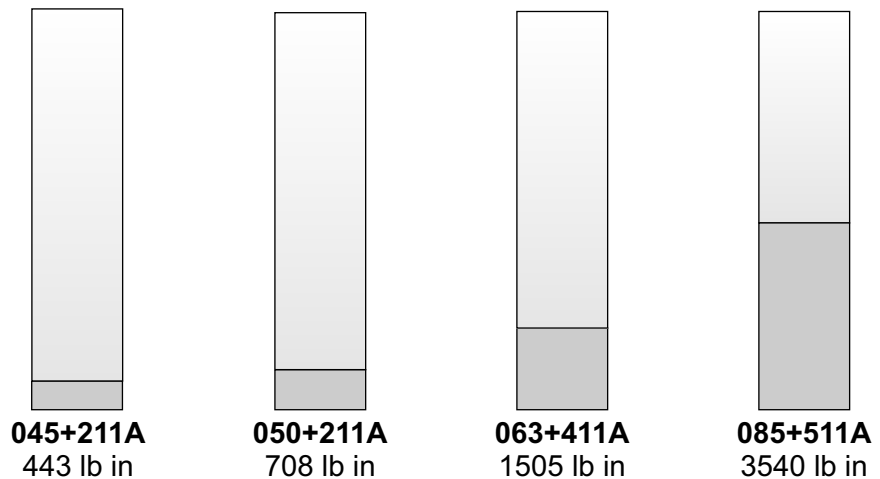


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Types / tipi / Tipos →
with speed multiplier

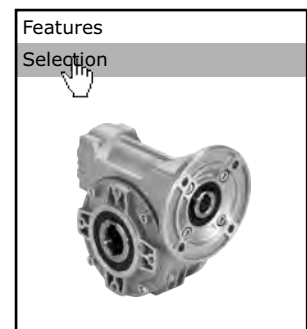


For : / Per : / Para :

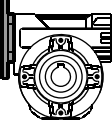
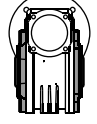
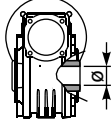
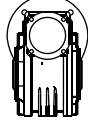
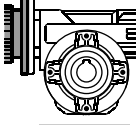
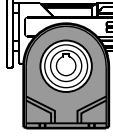
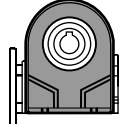
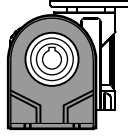
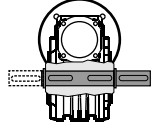
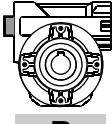
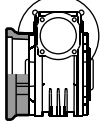
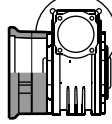
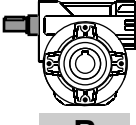
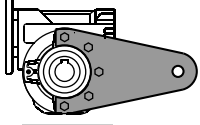
- Selection guide - fs**
Guida alla selezione
- Mounting pos. - Lubrication**
Pos. di montaggio - lubrificazione
- 2 - 6 poles selection**
Selezione 2 - 6 poli
- Radial - axial loads**
Carichi radiali e assiali
- Reversibility**
Reversibilità
- Thermal limit**
Limite termico

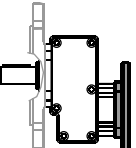
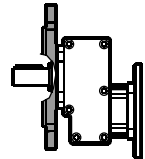
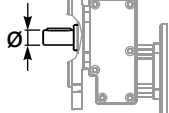
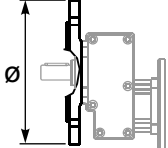
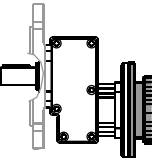
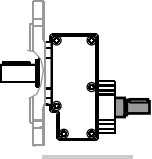
- Atex certification**
Certificazione Atex
- Accessories**
Accessori
- Download 3D drawings**
Download disegni 3D
- Interchangeability**
Intercambiabilità
- Installation and maintenance**
Installazione, uso e manutenzione
- Spare parts list**
Liste parti di ricambio

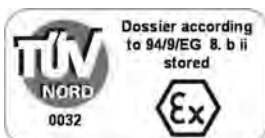
Use our web database to get detailed informations, always updated on each type/size.



CODIFICA / HOW TO ORDER / CODIFICACIÓN

Type - Tipo Typ	Size - Grandezza Tamaño	Mounting - Montaggio Tipo de montaje	Ratio Rapporto Relación	Hub - Mozzo corona Nucleo corona	Output shaft Albero lento Eje solida	Motor size Grandezza motore Tamaño motor	
P	045	PA	10	U	S	W	
 P	045 050 063 085	 FB	<p>See technical data table</p> <p>Vedi tabelle dati tecnici.</p> <p>Ver tabla datos técnicos</p>	 U	 Ø	<p>With Flange for type P</p> <p>W ⇒ 56C</p> <p>X ⇒ 143/5TC</p> <p>Y ⇒ 182/4TC</p>	
 M		 PA		 PB	 PV		 S
 B		 FC		 FL	F1 F2 F3 F4	<p>INCH</p> <p>045 ⇒ ø0.750 050 ⇒ ø1.000 063 ⇒ ø1.125 085 ⇒ ø1.500</p>	<p>N</p>
 R		 BR		<p>Z For Type - R</p>			

P	311A	-F	2.84	X	S	W	
 P	211A 411A 511A	 -F	<p>See technical data table</p> <p>Vedi tabelle dati tecnici.</p> <p>Ver tabla datos técnicos</p>	<p>Output shaft diameter Diámetro albero uscita</p> 	<p>Output flange diameter Diámetro flangia uscita</p> 	<p>With Flange for type P</p> <p>W ⇒ 56C</p> <p>X ⇒ 143/5TC</p>	
 M		<p>X 211A ø 0.625</p> <p>W 411A ø 0.875</p> <p>Y 511A ø 1.125</p>					<p>2</p> <p>211A ⇒ ø71 B14 (metric)</p>
 R							

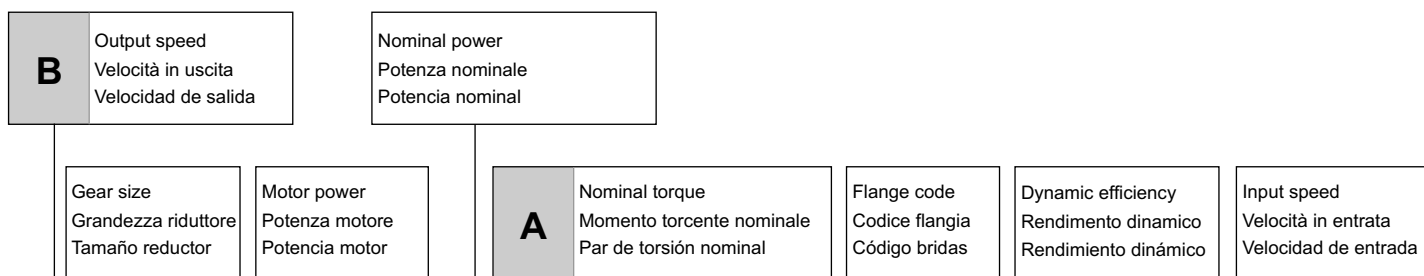


A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX

On request we can deliver our products according to the ATEX

A pedido, se pueden enviar nuestros productos de acuerdo con las normas ATEX.

How to select a gearbox / Come selezionare un riduttore Cómo seleccionar un reductor



045 Rightangle - Gear 345lb in

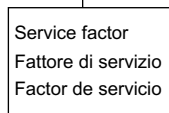
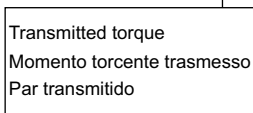
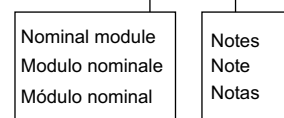
Rating - Alluminum WORM GEARBOXES





QUICK SELECTION / Selezione veloce

input speed (n_i) = 1750 min⁻¹

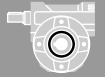
Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges	Dynamic efficiency	Tooth Module	Ratios code
250.0	7	1	202	1.3	1.29	257	W	RD	Mn	01
175.0	10	0.75	213	1.2	0.91	257	-	79	2.2	02
125.0	14	0.75	291	0.9	0.67	257	56C	77	2.4	03



Type of load and starts per hour Tipo di carico e avviamenti per ora		Oper. hours per day Ore di funz. giorn.		
		<2 h	2 - 8 h	8 - 16 h
Continuous or intermittent appl. with start / hour Applicazione cont. o interm. con n.ro operazioni/ora	Uniform / Uniforme	0.9	1	1.25
	Moderate / Moderato	1	1.25	1.5
	Heavy / Forte	1.25	1.5	1.75
Intermittent application with start / hour Applicazione intermittente con n.ro operazioni/ora	Uniform / Uniforme	1.25	1.5	1.75
	Moderate / Moderato	1.5	1.75	2
	Heavy / Forte	1.75	2	2.25

D	Motor flange available Flange disponibili Bridas disponibles
B)	Mounting with reduction ring Montaggio con boccola di riduzione Montaje con casquillo de reducción 
C)	Motor flangeholes position/terminal box position Posizione fori flangia/basetta motore Posición agujeros brida / base motor 
B)	Available without reduction bushes Disponibile anche senza boccola Disponibile tambien sin casquillo

A	Select required torque (according to service factor)	Seleziona la coppia desiderata (comprensiva del fattore di servizio)	Seleccionar el par deseado (incluyendo el factor de servicio)
B	Select output speed	Seleziona la velocità in uscita	Seleccionar la velocidad de salida
C	On the same line of selected geared motor, you can find the gear ratio	Sulla riga corrispondente alla motorizzazione prescelta si può rilevare il rapporto di riduzione	En la línea correspondiente al motor preseleccionado es posible encontrar la relación de reducción
D	Select motor flange available (if requested)	Scegli la flangia disponibile (se richiesta)	Seleccionar la brida disponible (sobre pedido)



QUICK SELECTION / Selezione veloce							input speed (n ₁) = 1750 min ⁻¹				
Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges		Dynamic efficiency	Tooth Module Mn [mm]	Ratio code
							W	-			
							56C	-	RD		
250.0	7	1	202	1.3	1.29	257			80	2.2	01
175.0	10	0.75	213	1.2	0.91	257			79	2.2	02
125.0	14	0.75	291	0.9	0.67	257			77	2.4	03
83.3	21	0.5	253	1.4	0.69	345			67	1.6	04
62.5	28	0.5	328	1.1	0.53	345			65	2.5	05
47.3	37	0.33	277	1.2	0.42	345			63	1.8	06
38.0	46	0.33	323	1.1	0.36	345			59	1.5	07
29.2	60	0.33	399	0.9	0.29	345			56	1.2	08
25.0	70	0.25	340	0.8	0.19	257			54	1.0	09
17.2	102	0.25*	450	<0.8	0.14	248			49	0.72	10

Motor Flanges Available Flange Motore Disponibili
 B) Supplied with Reduction Bushing Fornito con Bussola di Riduzione
 B) Available on Request without reduction bushing Disponibile a Richiesta senza Bussola di Riduzione
 C) Motor Flange Holes Position Posizione Fori Flangia Motore

* Power higher than the maximum one which can be supported by the gearbox. Select according to the torque M_{2R}
 Potenza superiore a quella massima sopportabile dal riduttore. Selezionare in base al momento torcente M_{2R}

EN Unit 045 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore tipo 045 viene fornito lubrificato a vita con olio sintetico. Per posizioni V5-V6 contattare il ns. servizio tecnico. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

E El reductor tamaño 045 se suministra, lubricado de por vida con aceites sintético. Para las posiciones V5 y V6 contactar con nuestro servicio técnico. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

•LUBRICATION 045 Oil Quantity 3.17 ounces

AGIP Telium VSF 320	SHELL Omala S4 WE 320
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For all details on lubrication and plugs check our website **tab. 1**
 Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

•RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

n ₂ [min ⁻¹]	FA [lb]	FR [lb]
200	40	202
150	45	225
100	49	247
75	54	270
50	58	315
25	67	405
15	90	450

Input shaft
albero in entrata

n ₁ [min ⁻¹]	FA [lb]	FR [lb]
1750	9	47

*Strong axial loads in the DX direction are not allowed.
 Non sono consentiti forti carichi assiali con direzione DX

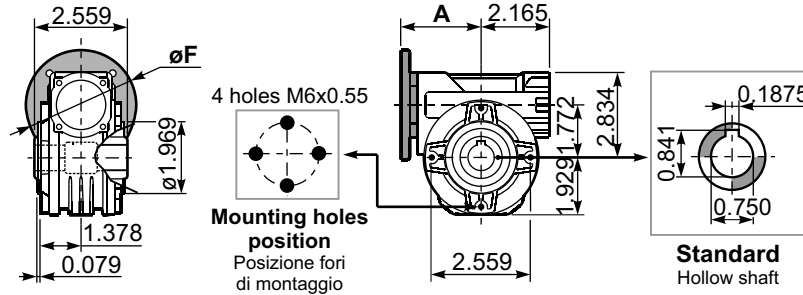
tab. 2

▪ **SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.**
 Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.

P045**FB**... Basic wormbox
Riduttore base

Gearbox weight
peso riduttore **5.30 lb**

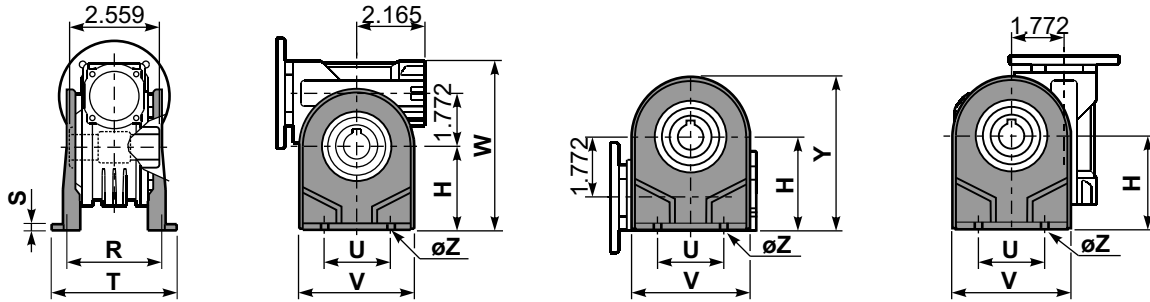
M. flanges	Kit code	øF	A
56C	KU050.4.041	6.5	3.630



P045**PA**... Feet
Piedini

P045**PB**... Feet
Piedini

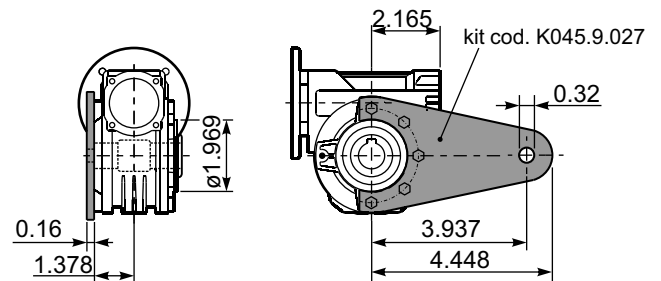
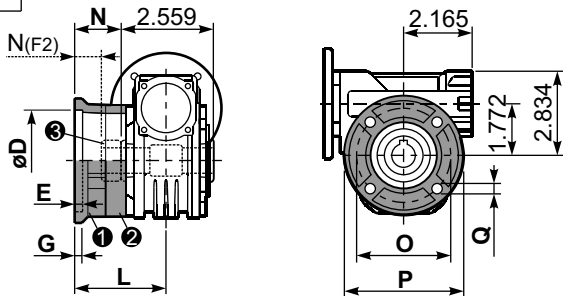
P045**PV**... Feet
Piedini



	H	R	S	T	U	V	Y	W	øZ	kit code
type B	2.835	3.189	0.118	3.937	2.047	3.858	4.764	5.669	0.41	K045.9.022
type S	2.795	3.307	0.315	3.937	2.756	3.543	4.724	5.630	0.31	KS045.9.023

P045**FC**... Output flange
Flangia uscita

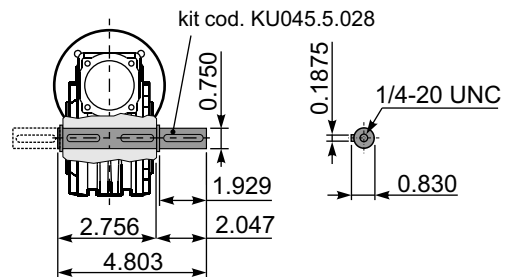
P045**BR**... Reaction arm
Braccio di reazione



type B	øD	E	G	L	N	O	P	Q	kit code
FC	2.3681	0.35	0.35	2.382	1.102	3.425	4.331	0.33	1 K045.9.010
	2.3642								2 K045.9.010
FL	2.3681	0.35	0.35	3.563	2.283	3.425	4.331	0.33	1 K045.9.010
	2.3642								2 K045.0.200

type S	øD	E	G	L	N	O	P	Q	kit code
F1	3.7480	0.16	0.43	2.894	1.614	4.528	5.512	0.35	1 KS045.9.013
	3.7461								2 -
F2	2.3681	0.35	0.35	2.382	0.748	3.425	4.331	0.33	1 KS045.9.010
	2.3642								2 S045.0.204
F3	3.1555	0.12	0.31	2.028	0.748	3.937	4.724	0.35	1 KS045.9.014
	3.1535								2 -

P045.....**S**... Single Shaft
Albero lento semplice



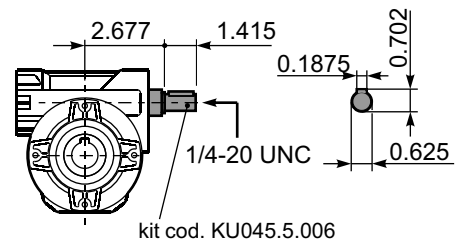
On request : Special Hollow Shafts
Mozzo Uscita Speciale

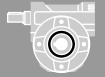


On request : Double extended worm shaft
Vite bisporgente



R045FB... Input shaft
Albero in entrata





QUICK SELECTION / Selezione veloce							input speed (n ₁) = 1750 min ⁻¹				
Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges		Dynamic efficiency	Tooth Module Mn [mm]	Ratio code
							W	-			
							56C	-	RD		
250.0	7	2	413	1.2	2.34	478			82	2.5	01
175.0	10	1.5	432	1.2	1.84	522			80	2.4	02
125.0	14	1	398	1.4	1.46	575			79	2.6	03
97.2	18	1	486	1.1	1.09	522			75	2.0	04
67.3	26	0.75	485	1.2	0.87	558			69	2.7	05
48.6	36	0.5	447	1.4	0.69	611			69	2.1	06
40.7	43	0.5	511	1.1	0.57	575			66	1.8	07
29.2	60	0.33	414	1.3	0.42	522			58	1.3	08
25.7	68	0.33	461	1.1	0.35	487			57	1.2	09
21.9	80	0.25	389	1.2	0.31	478			54	1.0	10
17.5	100	0.25	450	1.0	0.24	434			50	0.8	11

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit 050 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore tipo 050 viene fornito lubrificato a vita con olio sintetico. Per posizioni V5-V6 contattare il ns. servizio tecnico. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

E El reductor tamaño 050 se suministra, lubricado de por vida con aceites sintético. Para las posiciones V5 y V6 contactar con nuestro servicio técnico. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

LUBRICATION 050 Oil Quantity 6.35 ounces	
AGIP Telium VSF 320	SHELL Omala S4 WE 320

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS			
Output shaft Albero di uscita			
	n ₂ [min ⁻¹]	FA [lb]	FR [lb]
	200	54	270
	150	63	315
	100	67	337
	75	76	382
	50	85	427
	25	108	562
	15	126	629
Input shaft albero in entrata			
	n ₁ [min ⁻¹]	FA [lb]	FR [lb]
	1750	17	85
*Strong axial loads in the DX direction are not allowed. Non sono consentiti forti carichi assiali con direzione DX			

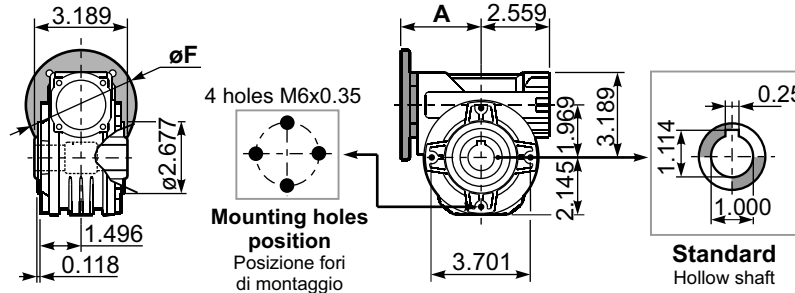
tab. 2

SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.
Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.

P050**FB**... Basic wormbox
Riduttore base

Gearbox weight
peso riduttore **8.40 lb**

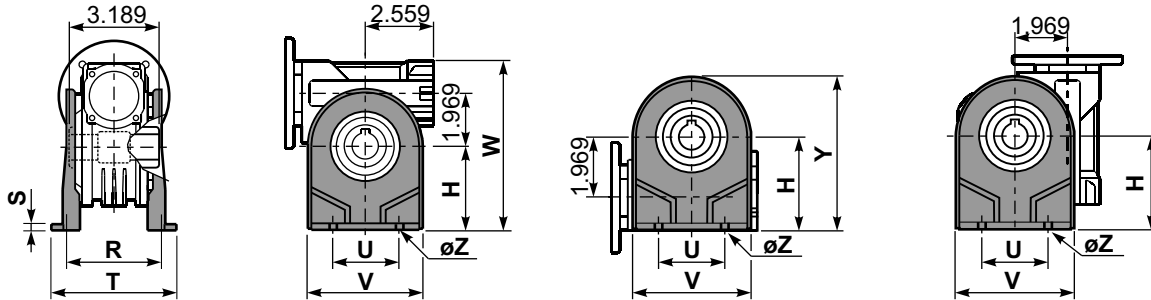
M. flanges	Kit code	øF	A
56C	KU050.4.041	6.5	3.807



P050**PA**... Feet
Piedini

P050**PB**... Feet
Piedini

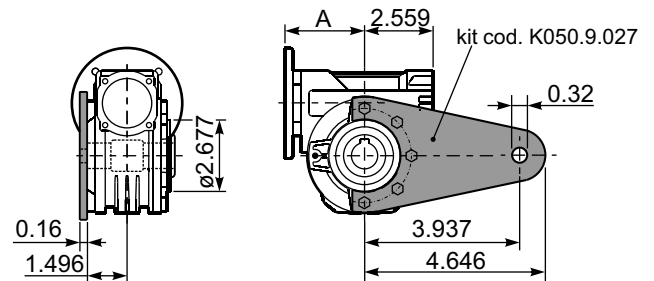
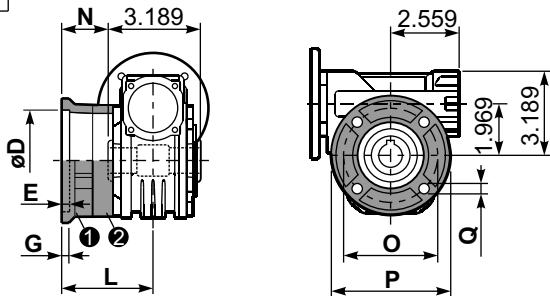
P050**PV**... Feet
Piedini



	H	R	S	T	U	V	Y	W	øZ	kit code
type B	3.228	3.878	0.138	4.843	2.480	4.449	5.453	6.417	0.41	K050.9.022
type S	3.346	3.780	0.394	4.488	3.346	4.331	5.492	6.535	0.39	KS050.9.023

P050**FC**... Output flange
Flangia uscita

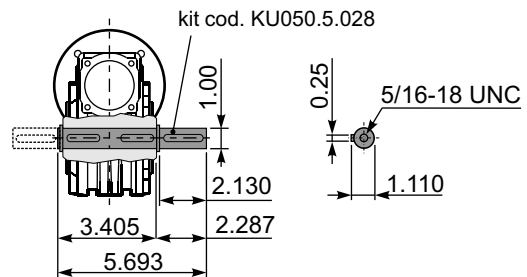
P050**BR**... Reaction arm
Braccio di reazione



type B	øD	E	G	L	N	O	P	Q	kit code
FC	2.7638	0.35	0.47	3.346	1.752	3.543	4.843	0.41	① K050.9.010 ② -
FL	2.7638	0.35	0.47	4.508	2.913	3.543	4.843	0.41	① K050.9.010 ② K050.0.200

type S	øD	E	G	L	N	O	P	Q	kit code
F1	4.3386	0.16	0.43	3.287	1.693	5.118	6.299	0.39	① KS050.9.012 ② -
F2	2.7638	0.35	0.47	3.012	1.417	3.543	4.843	0.41	① KS050.9.014 ② -
F3	3.7480	0.16	0.39	2.618	1.024	4.528	5.512	0.39	① KS050.9.013 ② -

P050.....**S**... Single Shaft
Albero lento semplice



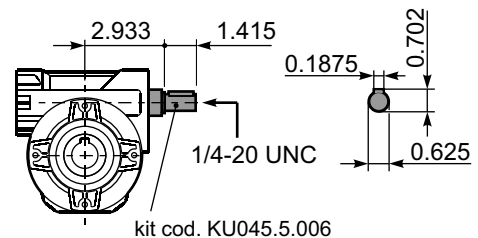
On request : Special Hollow Shafts
Mozzo Uscita Speciale

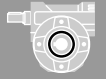


On request : Double extended worm shaft
Vite bisporgente



R050**FB**... Input shaft
Albero in entrata





QUICK SELECTION / Selezione veloce							input speed (n ₁) = 1750 min ⁻¹				
Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges		Dynamic efficiency RD	Tooth Module Mn [mm]	Ratios code
							W	X			
250.0	7	2	419	2.5	5.10	1053	56C	143-5TC	83	3.1	01
175.0	10	2	583	1.9	3.93	1133	B		81	3.1	02
116.7	15	2	854	1.4	2.75	1159	B		79	3.1	03
92.1	19	2	1068	1.1	2.20	1159	B		78	2.6	04
72.9	24	1.5	972	1.2	1.87	1195	B		75	2.0	05
58.3	30	1.5	1199	1.0	1.56	1230	B		74	3.2	06
48.6	36	1	882	1.4	1.42	1239	B		68	2.7	07
38.9	45	1	1070	1.1	1.08	1142	B		66	2.1	08
26.1	67	0.5	724	1.4	0.73	1044	B		60	1.5	09
21.9	80	0.5	821	1.2	0.62	1000	B		57	1.3	10
18.6	94	0.5	880	1.1	0.58	1000	B		52	1.1	11

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit 063 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.
For complete documentation please visit our web site.

I Il riduttore tipo 063 viene fornito lubrificato a vita con olio sintetico. Per posizioni V5-V6 contattare il ns. servizio tecnico. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore.
Per la documentazione completa consulta il nostro sito.

E El reductor tamaño 063 se suministra, lubricado de por vida con aceites sintético. Para las posiciones V5 y V6 contactar con nuestro servicio técnico. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.
Para documentación completa, consultar nuestra Web.

LUBRICATION 063 Oil Quantity 14.11 ounces

AGIP Telium VSF 320	SHELL Omala S4 WE 320
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For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

n ₂ [min ⁻¹]	FA [lb]	FR [lb]
200	81	404.5
150	90	450
100	103.5	517
75	112.5	562
50	135	674.5
25	157	854
15	180	899

Input shaft
albero in entrata

n ₁ [min ⁻¹]	FA [lb]	FR [lb]
1750	20	101

***Strong axial loads in the DX direction are not allowed.**
Non sono consentiti forti carichi assiali con direzione DX

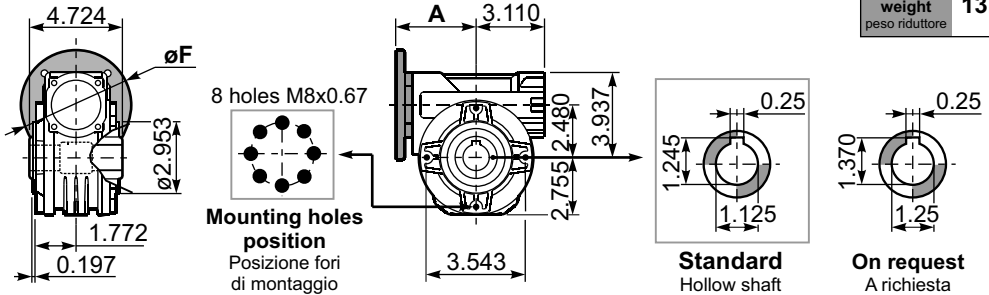
tab. 2

SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.
Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.

P063FB... Basic wormbox
Riduttore base

Gearbox weight
peso riduttore **13.23 lb**

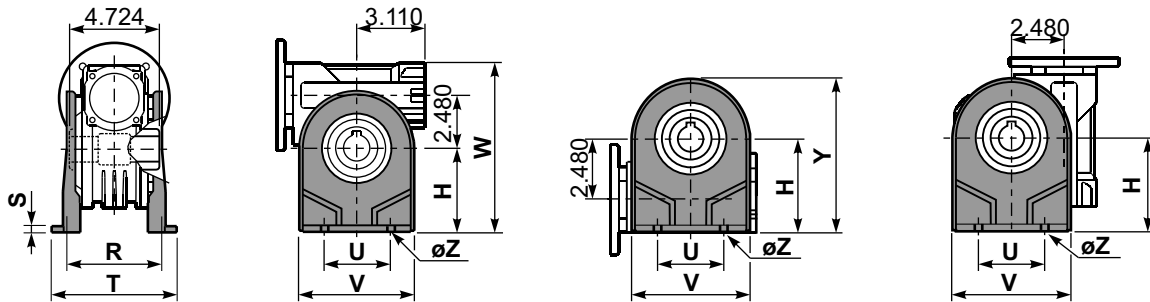
M. flanges	Kit code	øF	A
56C	KU063.4.041	6.50	4.291
143/5 TC	KU063.4.041	6.50	4.291



P063PA... Feet
Piedini

P063PB... Feet
Piedini

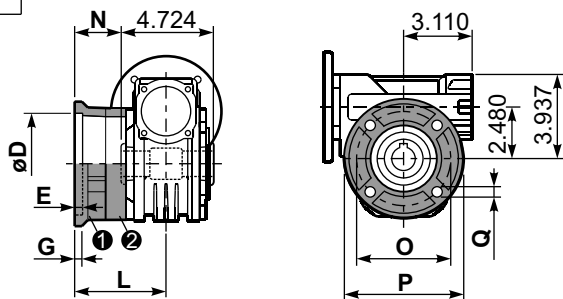
P063PV... Feet
Piedini



	H	R	S	T	U	V	Y	W	øZ	kit code
type B	3.937	4.370	0.157	5.669	3.740	5.236	6.693	7.874	0.41	K063.9.022
type S	-	-	-	-	-	-	-	-	-	-

P063FC... Output flange
Flangia uscita

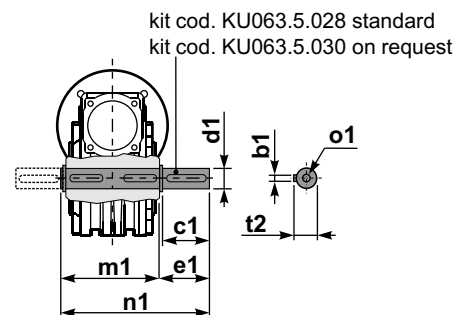
P063BR... Reaction arm
Braccio di reazione



type B	øD	E	G	L	N	O	P	Q	kit code
FC	4.5354	0.28	0.51	3.386	1.024	5.906	6.890	0.43	1 K063.9.010
	2 -								
FL	4.5354	0.28	0.51	4.567	2.205	5.906	6.890	0.43	1 K063.9.010
	2 K063.0.200								

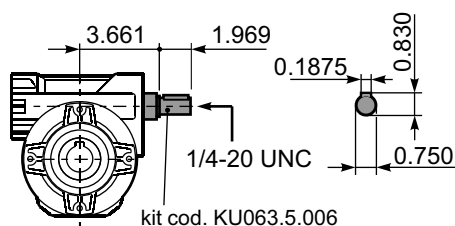
type S	øD	E	G	L	N	O	P	Q	kit code
F1	5.1260	0.28	0.51	4.016	1.654	6.496	7.874	0.51	1 KS070.9.013
	2 -								
F2	4.5354	0.28	0.51	4.567	2.205	5.906	6.890	0.43	1 KS063.9.013
	2 -								
F3	4.3321	0.20	0.43	3.228	0.866	5.118	6.299	0.39	1 KS063.9.011
	2 -								

P063.....S... Single Shaft
Albero lento semplice



	b1	c1	d1	e1	m1	n1	t2	o1	kit code
Standard	0.25	2.240	1.125	2.437	4.992	7.429	1.23	5/16-18	KU063.5.028
On request	0.25	2.362	1.250	2.559	4.992	7.551	1.36	5/16-18	KU063.5.030

R063FB... Input shaft
Albero in entrata

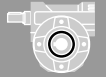


On request : Special Hollow Shafts
Mozzo Uscita Speciale



On request : Double extended worm shaft
Vite bisporgente





QUICK SELECTION / Selezione veloce							input speed (n ₁) = 1750 min ⁻¹					
Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges			Dynamic efficiency RD	Tooth Module Mn [mm]	Ratios code
							W	X	Y			
							56C	143-5TC	182-4TC			
250.0	7	7.5	1664	1.3	9.90	2168	B	B		88	4.23	01
175.0	10	5	1441	1.7	8.40	2390	B	B		80	4.2	02
125.0	14	5	1967	1.3	6.61	2567	B	B		78	4.5	03
87.5	20	3	1707	1.5	4.41	2478	B	B		79	3.4	04
62.5	28	3	2269	1.3	3.91	2921	B	B		75	4.7	06
46.1	38	2	1943	1.5	2.95	2832	B	B		71	3.5	07
33.7	52	1.5	1854	1.3	1.99	2434	B	B		66	2.7	09
26.1	67	1.5	2353	1.0	1.57	2434	B	B		65	2.1	10
18.2	96	1	1833	1.1	1.13	2036	B	B		53	1.5	12

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit 085 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us.
See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.
For complete documentation please visit our web site.

I Il riduttore tipo 085 viene fornito lubrificato a vita con olio sintetico. Per posizioni V5-V6 contattare il ns. servizio tecnico.
Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore.
Per la documentazione completa consulta il nostro sito.

E El reductor tamaño 085 se suministra, lubricado de por vida con aceite sintético. Para las posiciones V5 y V6 contactar con nuestro servicio técnico.
Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.
Para documentación completa, consultar nuestra Web.

LUBRICATION 085 Oil Quantity 42.33 ounces

AGIP Telium VSF 320	SHELL Omala S4 WE 320
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For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

n ₂ [min ⁻¹]	FA [lb]	FR [lb]
200	112	562
150	130	652
100	135	674
75	157	787
50	180	899
25	225	1124
15	261	1304

Input shaft
albero in entrata

n ₁ [min ⁻¹]	FA [lb]	FR [lb]
1750	36	182

***Strong axial loads in the DX direction are not allowed.**
Non sono consentiti forti carichi assiali con direzione DX

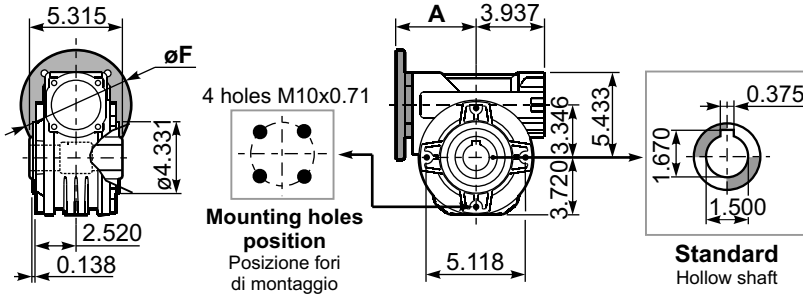
tab. 2

SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.
Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.

P085FB... Basic wormbox
Riduttore base

Gearbox weight
peso riduttore **24.25 lb**

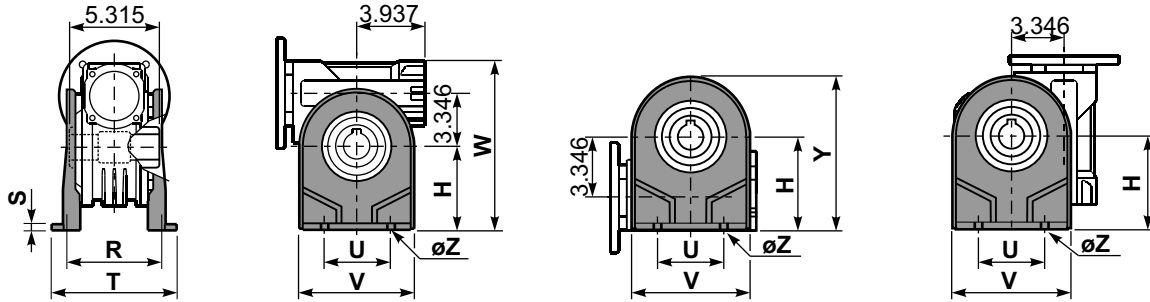
M. flanges	Kit code	øF	A
56C	KU085.4.041	6.50	4.823
143/5 TC	KU085.4.041	6.50	4.823
182/4 TC	KU085.4.042	8.88	5.527



P085PA... Feet
Piedini

P085PB... Feet
Piedini

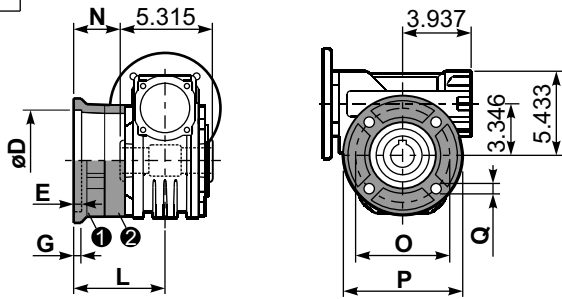
P085PV... Feet
Piedini



	H	R	S	T	U	V	Y	W	øZ	kit code
type B	5.591	5.709	0.197	7.165	5.512	7.087	9.311	11.024	0.41	K085.9.022
type S	-	-	-	-	-	-	-	-	-	-

P085FC... Output flange
Flangia uscita

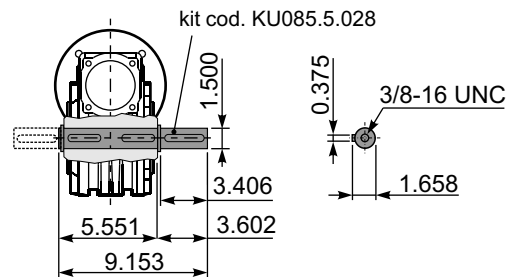
P085BR... Reaction arm
Braccio di reazione



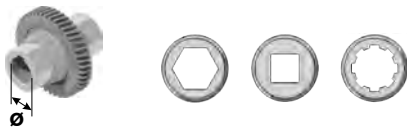
type B	øD	E	G	L	N	O	P	Q	kit code
FC	5.9867 5.9843	0.20	0.63	4.252	1.594	6.929	8.071	0.51	1 K085.9.010 2 -
FL	5.9867 5.9843	0.20	0.63	5.846	3.189	6.929	8.071	0.51	1 K085.9.010 2 K085.0.201

type S	øD	E	G	L	N	O	P	Q	kit code
F1	5.1197 5.1181	0.20	0.51	4.626	1.969	6.496	7.874	0.45	1 KS085.9.012 2 -
F2	5.9867 5.9843	0.20	0.59	5.807	3.150	7.087	8.071	0.49	1 KS085.9.013 2 -
F4	5.1197 5.1181	0.20	0.51	4.193	1.535	6.496	7.874	0.51	1 KS085.9.015 2 -

P085.....S... Single Shaft
Albero lento semplice



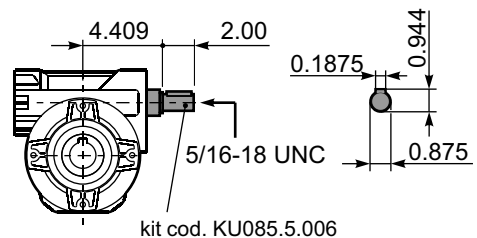
On request : Special Hollow Shafts
Mozzo Uscita Speciale



On request : Double extended worm shaft
Vite bisporgente



R085FB... Input shaft
Albero in entrata



045+211A Rightangle - Gear with ratio multiplier 443lb in

2D/3D Dimensions on request



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Final ratio i	Multiplier ratio i_{RM}	Wormbox ratio i_{WB}	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges	Dynamic efficiency RD	Tooth Module Mn [mm]	Ratios code
									W 56C			
53.2	32.9	4.7	7	0.5	438	1.0	0.51	443		74	2.2	01
37.2	47	4.7	10	0.33	402	1.1	0.37	443		72	2.2	02
26.6	65.8	4.7	14	0.25	355	1.2	0.32	443		60	2.4	03
17.7	98.7	4.7	21	0.25	507	0.9	0.22	443		57	1.6	04
13.3	132	4.7	28	0.25*	628	0.7	0.18	443		53	2.5	05
10.1	174	4.7	37	0.25*	767	0.6	0.15	443		49	1.8	06
8.1	216	4.7	46	0.25*	915	0.5	0.12	443		47	1.5	07
6.2	282	4.7	60	0.25*	1143	0.4	0.10	443		45	1.2	08
5.3	329	4.7	70	0.25*	1185	0.3	0.07	310		40	1.0	09
3.7	479	4.7	102	0.25*	1554	0.2	0.05	310		36	0.72	10

A) Motor Flanges Available
Flange Motore Disponibili


B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione


C) Motor Flange Holes Position
Posizione Fori Flangia Motore

* Power higher than the maximum one which can be supported by the gearbox. Select according to the torque M_{2R}
Potenza superiore a quella massima sopportabile dal riduttore. Selezionare in base al momento torcente M_{2R}

EN Units 045 and 211A are supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us. See table 1 for lubrication and recommended quantity. For complete documentation please visit our web site.

	Further available ratios (i_{RM})							
		2.05	2.35	2.80	3.38	4.70 standard	6.22	8.29

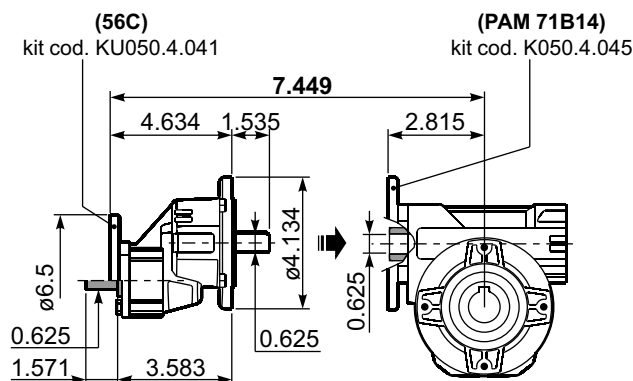
I I riduttori tipo 045 e 211A vengono forniti lubrificati a vita con olio sintetico. Per posizioni V5-V6 contattare il ns. servizio tecnico. Vedi tab.1 per oli e quantità consigliati. Per la documentazione completa consulta il nostro sito.

Lubrication Oil quantity	1.76 oz.	3.17 oz.
		
	AGIP Telium VSF 320	SHELL Omala S4 WE 320

E Los reductores tamaño 045 y 211A se suministra, lubricado de por vida con aceite sintético. Para las posiciones V5 y V6 contactar con nuestro servicio técnico. Ver tabla 1, para cantidades y aceites recomendados. Para documentación completa, consultar nuestra Web.

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

045 + 211A Basic wormbox Riduttore base



045 weight peso 045	5.30 lb
211A weight peso 211A	3.97 lb

SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.
Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.

050+211A Rightangle - Gear with ratio multiplier 708lb in

2D/3D Dimensions
on request



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Final ratio i	Multiplier ratio i_{RM}	Wormbox ratio i_{WB}	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges	Dynamic efficiency RD	Tooth Module Mn [mm]	Ratios code
									W 56C			
53.2	32.9	4.7	7	0.5	450	1.4	0.70	620		76	2.5	01
37.2	47.0	4.7	10	0.5	635	1.0	0.49	620		75	2.4	02
26.6	65.8	4.7	14	0.33	540	1.1	0.38	620		69	2.6	03
20.7	84.6	4.7	18	0.33	613	1.2	0.39	708		61	2.0	04
14.3	122	4.7	26	0.25	671	1.1	0.27	708		61	2.7	05
10.3	169	4.7	36	0.25	853	0.8	0.21	708		56	2.1	06
8.7	202	4.7	43	0.25*	892	0.7	0.18	620		49	1.8	07
6.2	282	4.7	60	0.25*	1193	0.5	0.13	620		47	1.3	08
5.5	320	4.7	68	0.25*	1266	0.4	0.11	531		44	1.2	09
4.7	376	4.7	80	0.25*	1354	0.3	0.07	354		40	1	10
3.7	470	4.7	100	0.25*	1524	0.2	0.06	354		36	0.8	11

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione


C) Motor Flange Holes Position
Posizione Fori Flangia Motore


* Power higher than the maximum one which can be supported by the gearbox. Select according to the torque M_{2R}
Potenza superiore a quella massima sopportabile dal riduttore. Selezionare in base al momento torcente M_{2R}

EN Units 050 and 211A are supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us. See table 1 for lubrication and recommended quantity. For complete documentation please visit our web site.

I I riduttori tipo 050 e 211A vengono forniti lubrificati a vita con olio sintetico. Per posizioni V5-V6 contattare il ns. servizio tecnico. Vedi tab.1 per oli e quantità consigliati. Per la documentazione completa consulta il nostro sito.

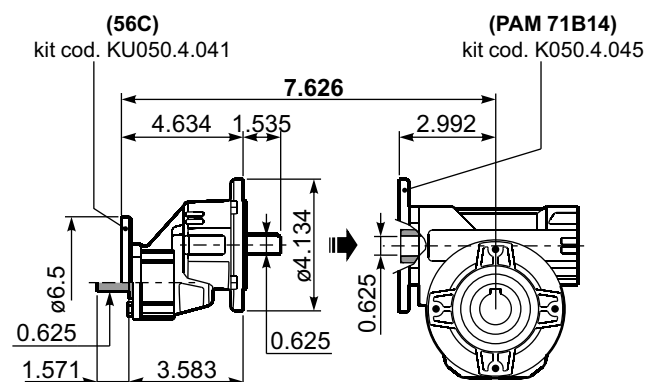
E Los reductores tamaño 050 y 211A se suministra, lubricado de por vida con aceite sintético. Para las posiciones V5 y V6 contactar con nuestro servicio técnico. Ver tabla 1, para cantidades y aceites recomendados. Para documentación completa, consultar nuestra Web.

	Further available ratios (i_{RM})							
	2.05	2.35	2.80	3.38	4.70 standard	6.22	8.29	9.83

Lubrication Oil quantity		
	1.76 oz.	6.35 oz.
AGIP Telium VSF 320	SHELL Omala S4 WE 320	

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

050 + 211A Basic wormbox Riduttore base



050 weight peso 050	8.40 lb
211A weight peso 211A	3.97 lb

SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.
Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.

063+411A

Rightangle - Gear with ratio multiplier
1505lb in

2D/3D Dimensions
on request



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Final ratio i	Multiplier ratio i_{RM}	Wormbox ratio i_{WB}	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Dynamic efficiency RD	Tooth Module Mn [mm]	Ratios code
									W	X			
54.1	32.3	4.62	7	1.5	1328	1.0	1.52	1328	56C	143/5TC	76	3.1	01
37.9	46.2	4.62	10	1	1231	1.1	1.09	1328	56C	143/5TC	74	3.1	02
25.3	69.3	4.62	15	0.75	1367	1.0	0.74	1328	56C	143/5TC	73	3.1	03
19.9	87.8	4.62	19	0.5	1154	1.2	0.58	1328	56C	143/5TC	73	2.6	04
15.8	111	4.62	24	0.5	1418	0.9	0.47	1328	56C	143/5TC	71	2.0	05
12.6	139	4.62	30	0.33	1104	1.4	0.46	1505	56C	143/5TC	67	3.2	06
10.5	166	4.62	36	0.33	1206	1.2	0.42	1505	56C	143/5TC	61	2.7	07
8.4	208	4.62	45	0.33	1458	0.9	0.30	1328	56C	143/5TC	59	2.1	08
5.7	310	4.62	67	0.25	1421	0.9	0.24	1328	56C	143/5TC	51	1.5	09
4.7	370	4.62	80	0.25	1597	0.8	0.21	1328	56C	143/5TC	48	1.3	10
4.0	434	4.62	94	0.25*	1642	0.7	0.17	1106	56C	143/5TC	42	1.1	11

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione


B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione



C) Motor Flange Holes Position
Posizione Fori Flangia Motore

* Power higher than the maximum one which can be supported by the gearbox. Select according to the torque M_{2R}
Potenza superiore a quella massima sopportabile dal riduttore. Selezionare in base al momento torcente M_{2R}

EN Units 063 and 411A are supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us. See table 1 for lubrication and recommended quantity. For complete documentation please visit our web site.

	Further available ratios (i_{RM})							
		1.57	2.87	3.29	3.87	4.62 Standard	6.3	8.22

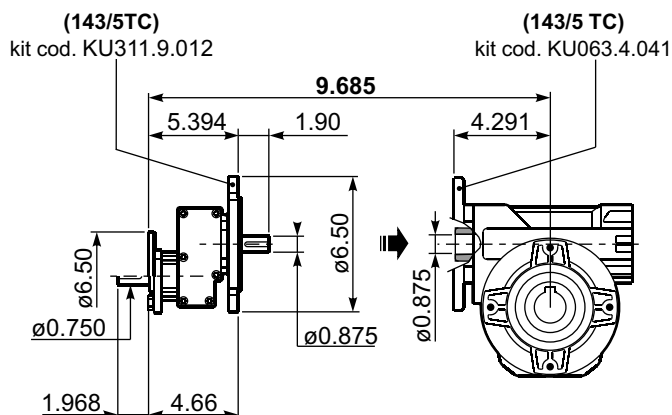
I I riduttori tipo 063 e 411A vengono forniti lubrificati a vita con olio sintetico. Per posizioni V5-V6 contattare il ns. servizio tecnico. Vedi tab.1 per oli e quantità consigliati. Per la documentazione completa consulta il nostro sito.

Lubrication Oil quantity	
3.53 oz	14.11 oz
AGIP Telium VSF 320	SHELL Omala S4 WE 320

E Los reductores tamaño 063 y 411A se suministra, lubricado de por vida con aceite sintético. Para las posiciones V5 y V6 contactar con nuestro servicio técnico. Ver tabla 1, para cantidades y aceites recomendados. Para documentación completa, consultar nuestra Web.

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

063 + 411A Basic wormbox Riduttore base



063 weight peso 063	13.23 lb
411A weight peso 411A	7.27 lb

SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.
Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.

085+511A

Rightangle - Gear with ratio multiplayer
3540lb in

2D/3D Dimensions
on request



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Final ratio i	Multiplier ratio i_{RM}	Wormbox ratio i_{WB}	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Dynamic efficiency RD	Tooth Module Mn [mm]	Ratios code
									X	Y			
									143/5TC	182/4TC			
47.4	36.9	5.27	7	3	3030	1.0	3.11	3098			76.0	4.3	01
33.2	52.7	5.27	10	2	2809	1.1	2.23	3098			74.0	4.2	02
23.7	73.8	5.27	14	1.5	2911	1.1	1.71	3275			73.0	4.5	03
16.6	105.4	5.27	20	1	2771	1.2	1.23	3363			73.0	3.4	04
11.9	148	5.27	28	1	3774	0.9	0.95	3540			71.0	4.7	05
8.7	200	5.27	38	0.75	3407	1.0	0.79	3540			63.0	3.5	06
6.4	274	5.27	52	0.75	3923	0.9	0.65	3363			53.0	2.7	07
5.0	353	5.27	67	0.5	2861	0.9	0.47	2655			45.0	2.1	08
3.5	506	5.27	96	0.33	2405	1.1	0.37	2655			40.0	1.5	09

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Units 085 and 511A are supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us. See table 1 for lubrication and recommended quantity. For complete documentation please visit our web site.

I I riduttori tipo 085 e 511A vengono forniti lubrificati a vita con olio sintetico. Per posizioni V5-V6 contattare il ns. servizio tecnico. Vedi tab.1 per oli e quantità consigliati. Per la documentazione completa consulta il nostro sito.

E Los reductores tamaño 085 y 511A se suministra, lubricado de por vida con aceite sintético. Para las posiciones V5 y V6 contactar con nuestro servicio técnico. Ver tabla 1, para cantidades y aceites recomendados. Para documentación completa, consultar nuestra Web.

Other available ratios (i_{RM})							
	1.30	2.45	3.31	4.31	5.27 Standard	7.63	10.50

Lubrication Oil quantity

8.82 oz → ← 42.33 oz

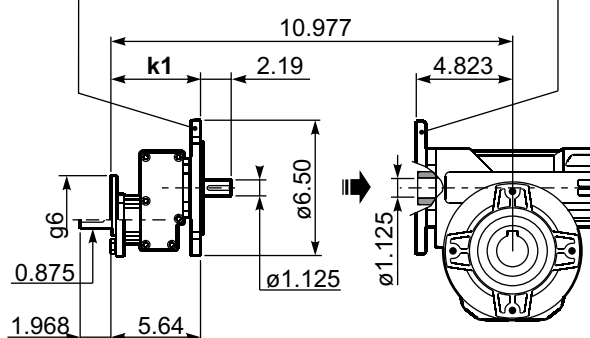
AGIP Telium VSF 320	SHELL Omala S4 WE 320
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For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

085 + 511A Basic wormbox Riduttore base

(143/5TC)
kit cod. KU511.9.012

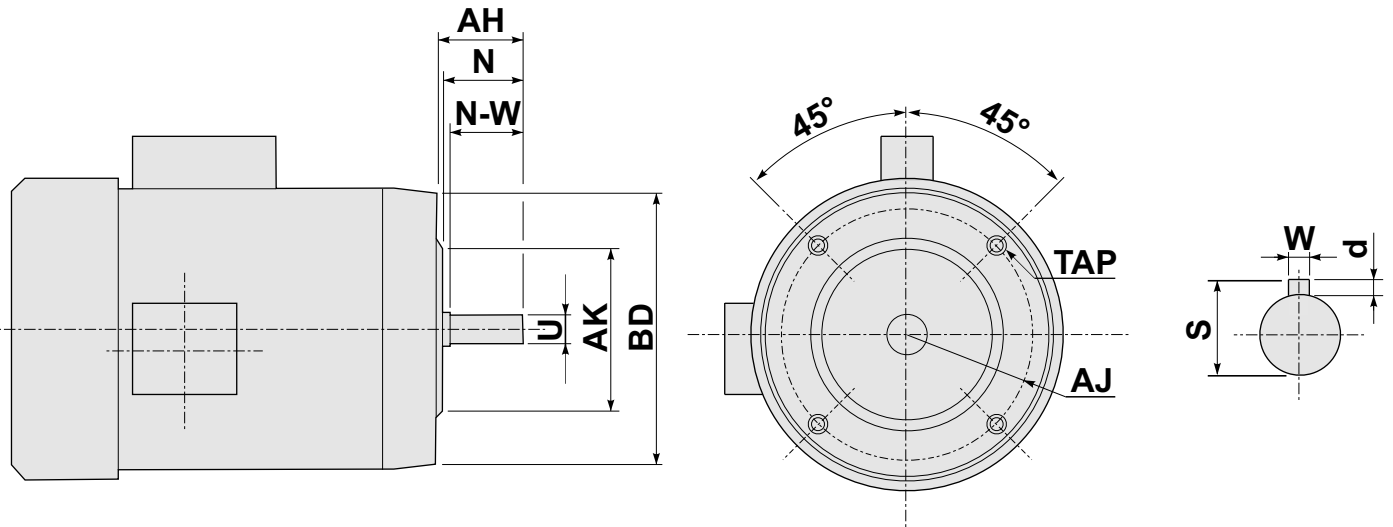
(143/5 TC)
kit cod. KU085.4.041



085 weight peso 085	24.25 lb
511A weight peso 511A	12.80 lb

Nema flange	k1	g6	kit code
143/5TC	6.15	6.50	KU085.4.041
182/4TC	6.84	8.88	KU085.4.042

SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.
Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.



NEMA SHAFT AND KEYWAY DIMENSIONS

NEMA SHAFT (U)	KEYWAY DIMENSIONS (W x d)		(S)
	W	d	
$\frac{5}{8}$	$\frac{3}{16} \times \frac{3}{32}$		0.709
$\frac{7}{8}$	$\frac{3}{16} \times \frac{3}{32}$		0.964
$1\frac{1}{8}$	$\frac{1}{4} \times \frac{1}{8}$		1.241
$1\frac{3}{8}$	$\frac{5}{16} \times \frac{5}{32}$		1.518
$1\frac{5}{8}$	$\frac{3}{8} \times \frac{3}{16}$		1.796

The condensed dimensions shown on these pages are for general reference only and are not for construction.
Certified drawings of all rating are available for construction purposes.

NEMA DIMENSIONS

Nema Frame	N	U	N-W	AH	AJ	AK	BD	TAP	KEY
S56 56	$1\frac{15}{16}$	$\frac{5}{8}$	$1\frac{7}{8}$	$2\frac{1}{16}$	$5\frac{7}{8}$	$4\frac{1}{2}$	$6\frac{1}{2}$	$\frac{3}{8}$ -16	$\frac{3}{16}$
143T 145T	$2\frac{3}{8}$	$\frac{7}{8}$	$2\frac{1}{4}$	$2\frac{1}{8}$	$5\frac{7}{8}$	$4\frac{1}{2}$	$6\frac{1}{2}$	$\frac{3}{8}$ -16	$\frac{3}{16}$
182T 184T	$2\frac{7}{8}$	$1\frac{1}{8}$	$2\frac{3}{4}$	$2\frac{5}{8}$	$7\frac{1}{4}$	$8\frac{1}{2}$	$8\frac{7}{8}$	$\frac{1}{2}$ -13	$\frac{1}{4}$

Please Read Carefully

The following WARNING and CAUTION information is supplied to you for your protection and to provide you with many years of trouble free and safe operation of your product.

Read ALL instructions prior to operating reducer. Injury to personnel or reducer failure may be caused by improper installation, maintenance or operation.

WARNING:

- Written authorization is required to operate or use reducers in man lift or people moving devices.
- Check to make sure that certain applications do not exceed the allowable load capacities published in the current catalog.
- Buyer shall be solely responsible for determining the adequacy of the product for any and all uses to which Buyer shall apply the product. The application by Buyer shall not be subject to any implied warranty of fitness for a particular purpose.
- For safety, Buyer or User should provide protective guards over all shaft extensions and any moving apparatus mounted thereon. The User is responsible for checking all applicable safety codes in his area and providing suitable guards. Failure to do so may result in bodily injury and/or damage to equipment.
- Hot oil and reducers can cause severe burns. Use extreme care when removing lubrication plugs and vents.
- Make certain that the power supply is disconnected before attempting to service or remove any components. Lock out the power supply and tag it to prevent unexpected application power.
- Reducers are not to be considered fail safe or self-locking devices. If these features are required, a properly sized, independent holding device should be utilized. Reducers should not be used as a brake.
- Any brakes that are used in conjunction with a reducer must be sized or positioned in such a way so as to not subject the reducer to loads beyond the catalog rating.
- Lifting supports including eyebolts are to be used for vertically lifting the gearbox only and not other associated attachments or motors.
- Use of an oil with an EP additive on units with backstops may prevent proper operation of the backstop. Injury to personnel, damage to the reducer or other equipment may result.
- Overhung loads subject shaft bearings and shafts to stress which may cause premature bearing failure and or shaft breakage from bending fatigue, if not sized properly.

SELLING CONDITIONS

Warranty for manufacturing defects will expire one-year the invoicing date. Hydro-Mec will replace or repair defective parts but will not accept any further changes for direct or indirect damages of any kind. The warranty will become null and void if repairs or changes are carried out without our prior written authorization.

Our company will not be responsible for any direct or indirect damages, caused by a wrong use of the products or for not observing the catalogue/web indication

Leggere attentamente

Le seguenti raccomandazioni sono fondamentali per la vostra protezione e per garantirvi molti anni di sicuro funzionamento del vostro prodotto senza alcun problema.

Leggere attentamente tutte le istruzioni prima di azionare il riduttore. L'inappropriata installazione, manutenzione o funzionamento del riduttore può causare incidenti al personale addetto e danni al riduttore stesso.

ATTENZIONE!

- E' richiesta autorizzazione scritta per azionare riduttori in ascensori o dispositivi per il movimento delle persone.
- Controllare che alcune applicazioni non eccedano la massima capacità di carico ammessa pubblicata in questo catalogo.
- L'acquirente è l'unico responsabile per la determinazione dell'adeguatezza del prodotto per qualcuna o tutte le utilizzazioni che l'acquirente stesso farà del riduttore. L'applicazione dell'acquirente non potrà essere soggetta ad alcuna implicita garanzia di montaggio per uno scopo particolare.
- Per ragioni di sicurezza l'acquirente dovrà provvedere a porre protezioni adeguate su tutta la lunghezza dell'albero a tutti gli organi in movimento. L'utilizzatore è responsabile del controllo di tutti i codici di sicurezza e la predisposizione di protezioni adeguate. In assenza di tali precauzioni si possono verificare incidenti alle persone e danni agli apparati.
- Olio e riduttori bollenti possono causare gravi ustioni. Usare estrema cautela nella rimozione dei tappi e delle ventole.
- Assicurarsi che la corrente di alimentazione sia scollegata prima di riparare o rimuovere alcun componente. Chiudere l'alimentazione e contrassegnare tale operazione per evitare accensioni accidentali.
- I riduttori non devono essere considerati esenti da guasti o a bloccaggio automatico. Se sono indispensabili queste caratteristiche, deve essere utilizzato un dispositivo indipendente della dimensione adatta. I riduttori non devono essere utilizzati come freni.
- Qualsiasi freno sia utilizzato insieme al riduttore deve essere della giusta grandezza e posizionato in modo da non causare carichi eccessivi non previsti dai dati forniti nel catalogo.
- I dispositivi di sollevamento come le golfare devono essere usati solo per sollevare verticalmente il riduttore e non altri dispositivi associati o motori.
- L'utilizzo di un olio con un additivo EP su gruppi provvisti di dispositivo di arresto possono inficiare l'uso corretto del freno e provocare danni alle persone, alle cose ed al riduttore stesso nonché ad altri apparecchi.
- I Carichi sospesi assoggettano i cuscinetti della vite e la vite stessa a sollecitazioni che possono causare, se non adeguatamente dimensionati, l'usura prematura dei cuscinetti e/o la rottura della vite a causa della resistenza alla flessione.

CONDIZIONI DI VENDITA

La garanzia relativa a difetti di costruzione ha la durata di un anno dalla data di fatturazione della merce. Tale garanzia comporta per Hydro-mec l'onere della sostituzione o riparazione delle parti difettose ma non ammette ulteriori addebiti per eventuali danni diretti o indiretti di qualsiasi natura.

La garanzia decade nel caso in cui siano state eseguite riparazioni o apportate modifiche senza nostro consenso scritto.

La nostra ditta non si ritiene responsabile per eventuali danni diretti o indiretti derivanti da un uso improprio dei prodotti e dalla mancata osservanza delle indicazioni riportate a catalogo o web..

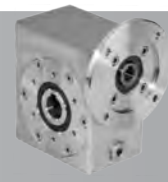
HYDRO-MEC *A modern production of Modular products*



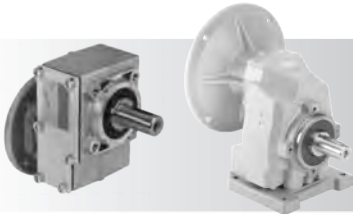
Square worm gearboxes
Rid. a vite senza fine quadro



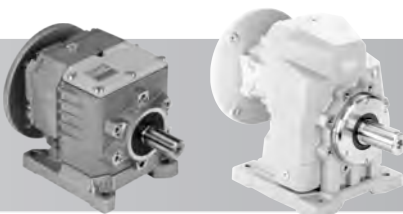
S series square worm gearboxes
Rid. a vite senza fine quadro serie S



Stainless steel worm gearboxes
Rid. a vite senza fine Inox



One step gearboxes
Riduttori ad uno stadio



Coaxial gearboxes
Riduttori coassiali



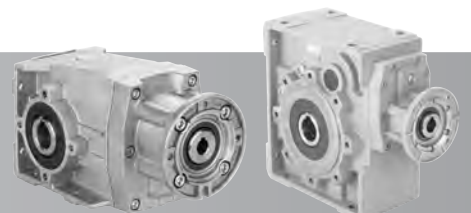
Stainless steel coaxial gearboxes
Riduttori coassiali Inox



Shaft mounted gearboxes
Riduttori pendolari



Shaft mounted gearboxes
Riduttori pendolari



Helical bevel gearboxes
Rid. a coppia conica

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Made in Italy



* CT- VFP- BS- HM012*

