

Technical Data Sheet
Gearbox
WORM GEARBOX SQUARE DESIGN



MODEL	M50	
Ø OUTPUT SHAFT	25	mm
APPROXIMATE RATIO	70	
EXACT RATIO	68.00	
OUTPUT SPEED	21	RPM
EXACT OUTPUT SPEED	21	RPM
INPUT POWER	0.25	KW
INPUT ROTATION	1400	RPM
INPUT PAM	71B5	
OUTPUT TORQUE	66.09	N.m
NOMINAL TORQUE	58.00	N.m
NOMINAL POWER	0.22	KW
SERVICE FACTOR	0.88	
DYNAMIC EFFICIENCY	0.57	



Oil Quantity (L)

B3/H1	B6/H4	B7/H3	B8/H2	V5/H5	V6/H6
0.14	0.14	0.14	0.14	0.14	0.14

Radial and Axial Loads



n_2 [min-1]	FA [N]	FR [N]
200	240	1200
100	300	1500
50	380	1900
15	560	2800

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4495-375 Póvoa de Varzim
geral@universalmotors.pt
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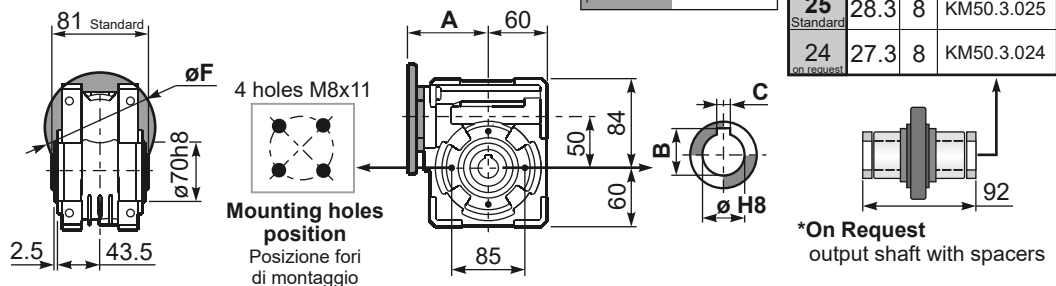
Universal Motors UK, Ltd
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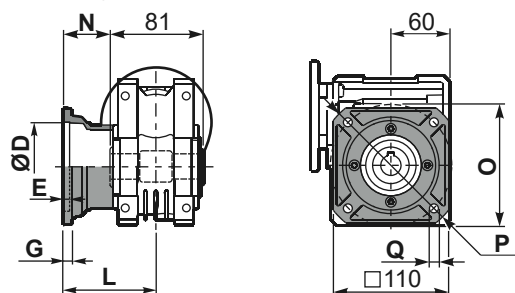
PM50FB...

Basic wormbox
Riduttore baseGearbox weight
peso riduttore **3.25 kg**

M. flanges	Kit code	øF	A
63B5	K050.4.041	138	83.5
71B5	K050.4.042	160	81
80B5	K050.4.043	200	81.5
56B14	KC40.4.049	80	81
63B14	K050.4.047	90	83.5
71B14	K050.4.045	105	81
80B14	K050.4.046	120	81.5

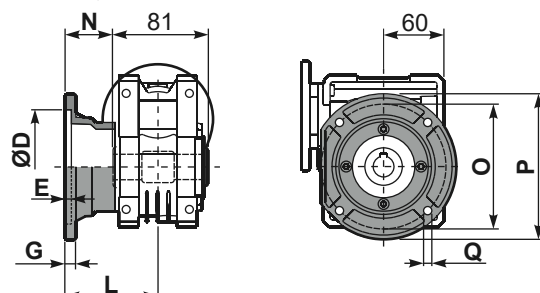
*On Request
output shaft with spacers

PM50FC...

Square flange
Flangia quadrata

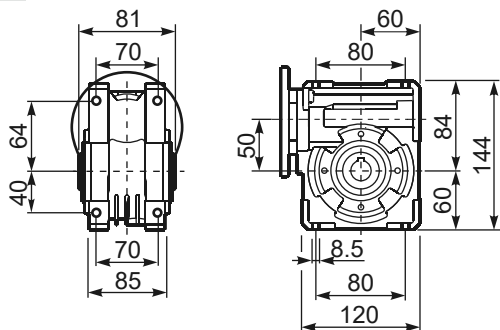
type B	øD	E	G	L	N	O	P	Q	kit code
FC	70 H8	5	9	90	49.5	85	125	11	KM50.9.010
FL	70 H8	5	9	120	79.5	85	125	11	KM50.9.011

PM50F1...

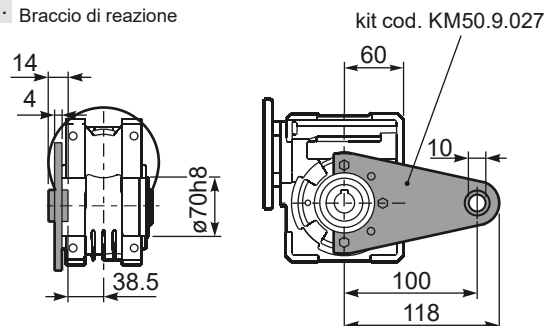
Round flange
Flangia rotonda

type S	øD	E	G	L	N	O	P	Q	kit code
F1	110 H8	5	10	89	48.5	130	160	9.5	KM50.9.012
F2	95 H8	5	14.5	72	31.5	115	140	11	KM50.9.013

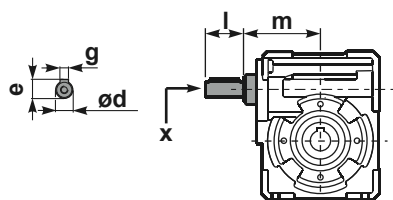
PM50FB...

Feet
Piedini

PM50BR...

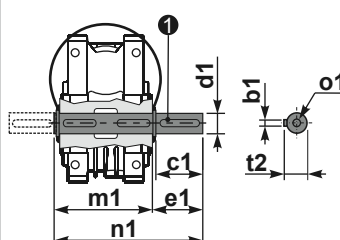
Reaction arm
Braccio di reazione

RM50FB...

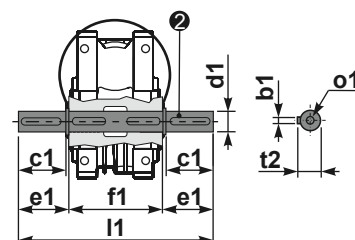
Input shaft
Albero in entrata

	ød	e	g	l	m	x	kit code
type B	16 h6	18	5	30	79.5	M6x16	① K050.5.006 PAM71 ② K050.5.007 PAM80
type S	14 h6	16	5	30	79.5	M5x10	① KS050.5.008 PAM71 ② KS050.5.009 PAM80

PM50.....S...

Single Shaft
Albero lento semplice① kit cod. K050.5.028 type B
kit cod. KS050.5.030 type S

PM50.....D...

Double Shaft
Albero lento bisp.

	b1	c1	d1	e1	f1	l1	m1	n1	t2	o1
type B	8	52	25 ^{-0.005} _{-0.020}	59.5	81	200	86.5	146	28	M8x20
type S	8	50	24 ^{-0.005} _{-0.020}	68.8	-	-	86.5	155	27	M8x20