

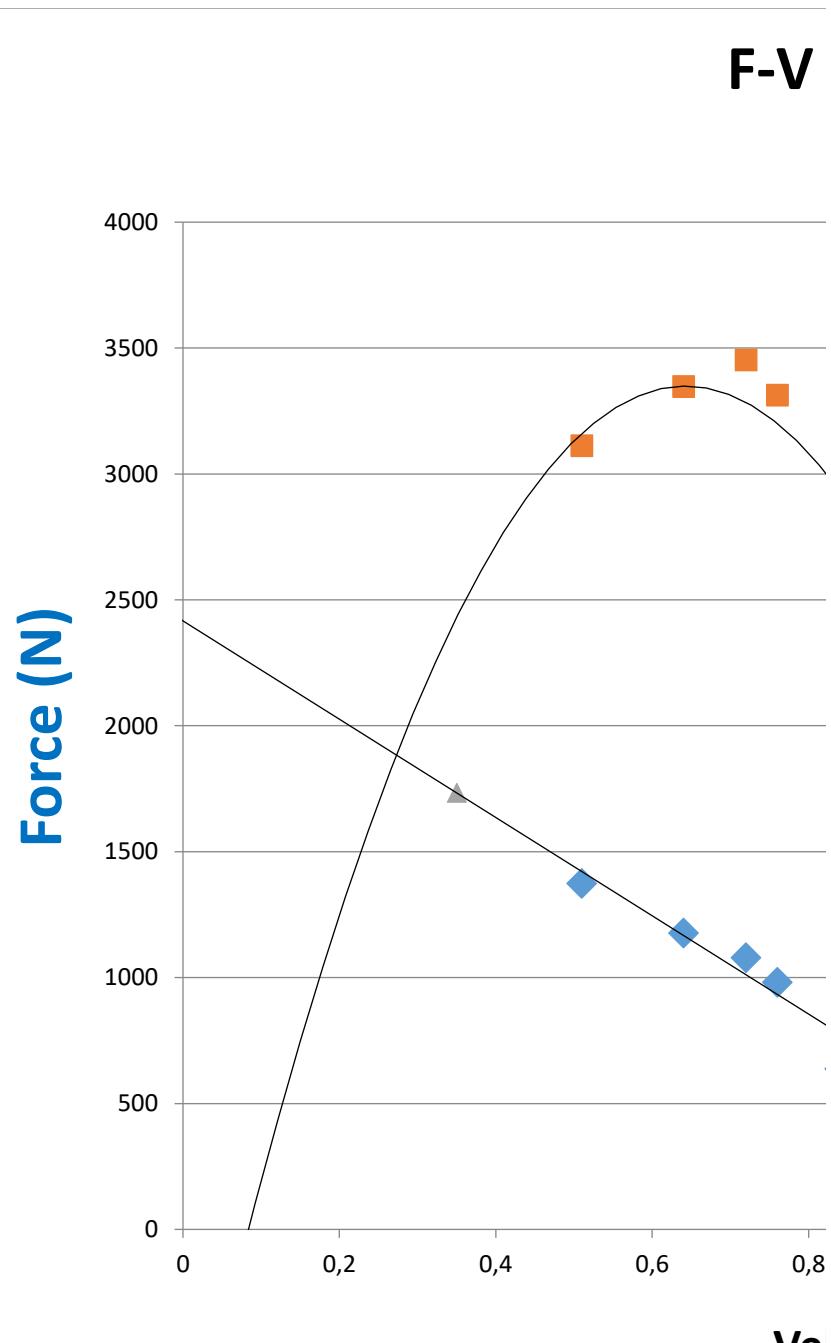
NOME	
COGNOME	
PESO	
ALTEZZA	
1RM (kg)	176,7

Linear trend

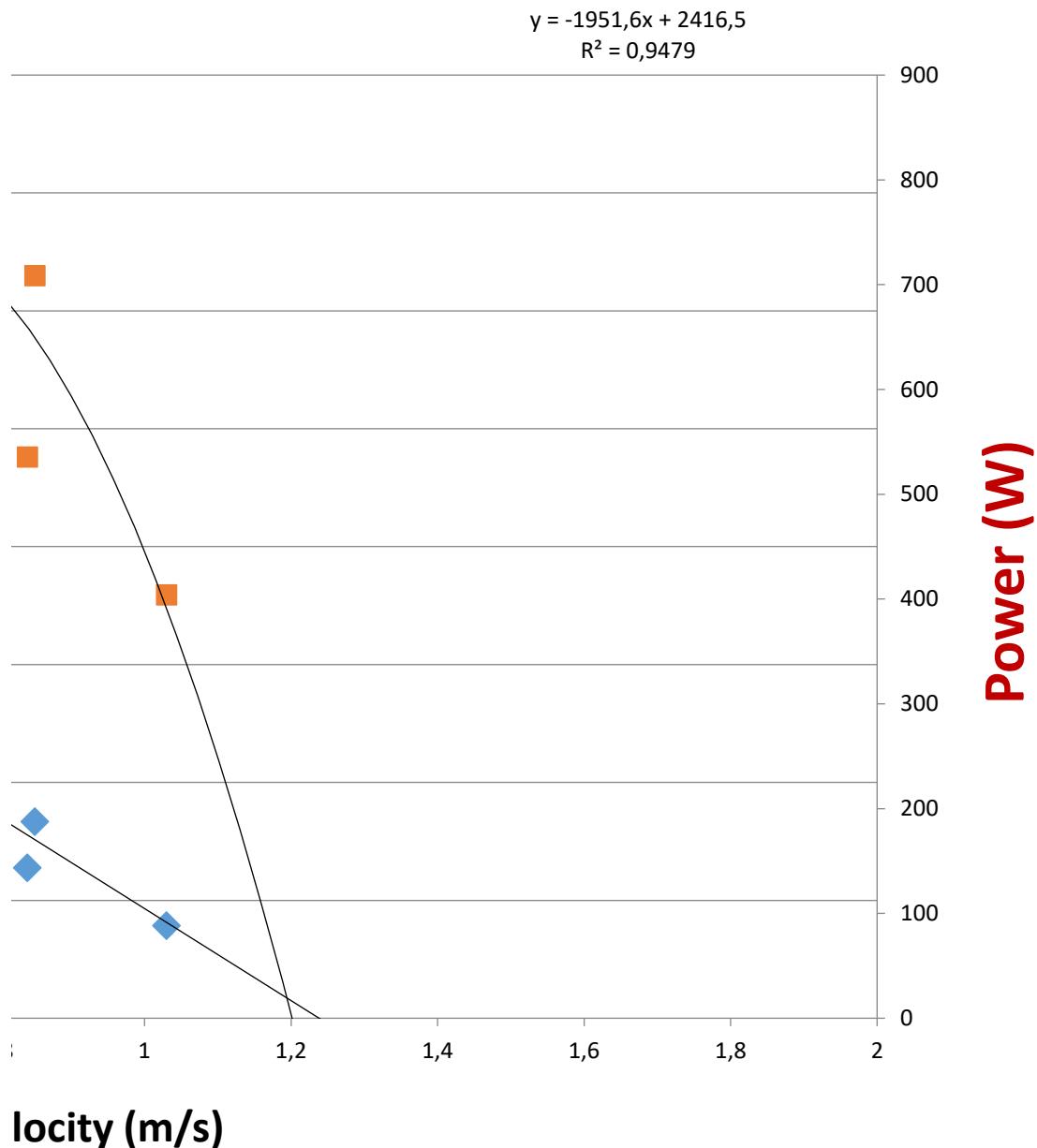
IN ARANCIO LE CELLE CHE
POSSONO ESSERE MOIFICATE

Load (kg)	v (m/s)	F (N)	P (W)
40	1,03	392,4	404,17
65	0,84	637,65	535,63
85	0,85	833,85	708,77
100	0,76	981	745,56
110	0,72	1079,1	776,95
120	0,64	1177,2	753,41
140	0,51	1373,4	700,43
		0	0,00
MVT (m/s)	0,35	1733,5	606,71
Theoretical 1RM (N)		176,7	
F_{isom} (N)		2416,5	F_{isom} (kg)
Theoretical 1RM (2098,7		Theoretical 1RM (kg)
V_{max} (m/s)	1,24		V_{1RM} (m/s)
P_{max} (W)		#NOME?	
P_{max} load (N)		#NOME?	P_{max} load (kg)
VP_{max} (m/s)		#NOME?	
$P_{max} \%F_{isom}$		#NOME?	$P_{max} \%1RM$
%90 P_{max} (W)		#NOME?	
$F_{min} \%90 P_{max}$ (N	#NOME?	$F_{min} \%90 P_{max}$ (kg)	
$F_{max} \%90 P_{max}$ (N	#NOME?	$F_{max} \%90 P_{max}$ (kg)	
$V_{min} \%90 P_{max}$ (m	#NOME?		
$V_{max} \%90 P_{max}$ (m	#NOME?		

Linear trend	
Polynomial trend	
Coefficients	Linear trend coeffs.
a	0,00
b	-1951,60
c	2416,52408
R ²	0,9479
SEE	#NOME?
246,3	V a
213,9	V at
0,35	#
#NOME?	
#NOME?	
#NOME?	
#NOME?	



and P-V chart



Velocity-

Weakley, Jonathan

Ramos, Amador P

[Author Information](#)

Strength and Conditioning

Relative load (%1RM)	Mean velocity (m/s)	Load (kg)	Power (W)
20 %1RM	1,06	35,3	367,7
25 %1RM	1,02	44,2	440,4
30 %1RM	0,97	53,0	505,4
35 %1RM	0,93	61,8	562,6
40 %1RM	0,88	70,7	612,2
45 %1RM	0,84	79,5	654,1
50 %1RM	0,79	88,4	688,3
55 %1RM	0,75	97,2	714,8
60 %1RM	0,71	106,0	733,6
65 %1RM	0,66	114,9	744,6
70 %1RM	0,62	123,7	748,0
75 %1RM	0,57	132,5	743,7
80 %1RM	0,53	141,4	731,7
85 %1RM	0,48	150,2	712,0
90 %1RM	0,44	159,0	684,6
95 %1RM	0,39	167,9	649,5
100 %1RM	0,35	176,7	606,7

Exercise

Bench press

Prone bench pull

Prone pull-up

Seated military press

Lat pulldown

Seated cable row

Squat

Deadlift

Hip-thrust

Leg press

^aSmith machine variable

1RM = one repetition maximum

Based Training: From Theory to Application

n PhD^{1,2}; Mann, Bryan PhD³; Banyard, Harry PhD⁴; McLaren, Shaun PhD^{2,5}; Scott, Tannath PhD^{2,6}; García-Badillo PhD^{7,8}

on 

ditioning Journal 43(2):p 31-49, April 2021. | DOI: 10.1519/SSC.00000000000000560

Table 2
Minimum velocity threshold for commonly used resistance training exercises

Study	Sample	1RM MV (mean \pm SD)	V1RM
González-Badillo and Sánchez-Medina ^a (32) Sánchez-Medina ^a et al. (75) García-Ramos ^a et al. (27) Helms et al. (38)	120 young healthy males 75 athletes 30 healthy males 15 powerlifters	0.16 \pm 0.04 m/s 0.17 \pm 0.04 m/s 0.17 \pm 0.03 m/s 0.10 \pm 0.04 m/s	0.17 m/s
Loturco et al. (54) Sánchez-Medina ^a et al. (75) García-Ramos et al. (30)	30 athletes 75 athletes 26 athletes	0.51 \pm 0.07 m/s 0.52 \pm 0.06 m/s 0.48 \pm 0.04 m/s	0.50 m/s
Sánchez-Moreno et al. (78) Muñoz-López et al. (58)	52 firefighter candidates 82 resistance-trained males	0.20 \pm 0.05 m/s 0.26 \pm 0.05 m/s	0.23 m/s
Balsalobre-Fernández ^a et al. (3) García-Ramos ^a et al. (29)	39 resistance trained participants 24 healthy participants	0.19 \pm 0.05 m/s 0.20 \pm 0.05 m/s	0.19 m/s
Perez-Castilla et al. (69)	23 healthy participants	0.47 \pm 0.04 m/s	0.47 m/s
Perez-Castilla et al. (69)	23 healthy participants	0.40 \pm 0.05 m/s	0.40 m/s
Conceição ^a et al. (13) Sánchez-Medina and ^a González-Badillo (74) ^a Banyard et al. (6) Helms et al. (38)	15 male athletes 80 strength-trained males 17 strength-trained males 15 powerlifters	0.32 \pm 0.04 m/s 0.32 \pm 0.03 m/s 0.24 \pm 0.06 m/s 0.23 \pm 0.05 m/s	0.30 m/s
Ruf et al. (73) Helms et al. (38) Lake et al. (51)	11 resistance-trained athletes 15 powerlifters 12 active males	Not stated 0.14 \pm 0.05 m/s 0.16 \pm 0.05 m/s	0.15 m/s
de Hoyo et al. (20)	102 sport science students	0.25 \pm 0.03 m/s	0.25 m/s
Conceição et al. (13)	15 male athletes	0.21 \pm 0.04 m/s	0.21 m/s

ation of the exercise.

tion maximum; MV = mean velocity; V1RM = velocity at 1RM.