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# MPS1

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PUNTA IN METALLO DURO A ELEVATE PRESTAZIONI

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# MPS1

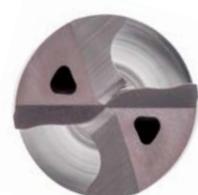
## PUNTA IN METALLO DURO A ELEVATE PRESTAZIONI



LxDC 3 - 8

### TAGLIENTE ROBUSTO

Per una foratura ad alte prestazioni



LxDC 10 - 40  
LxDC 2 (PC)

### GEOMETRIA OTTIMIZZATA

Per fori extra-lunghi e qualità dei fori ottimale

### DP1021

La nuova tecnologia di rivestimento PVD AlTiCrN garantisce una lunga vita soprattutto con velocità di taglio e avanzamenti superiori.

### PRECISIONE

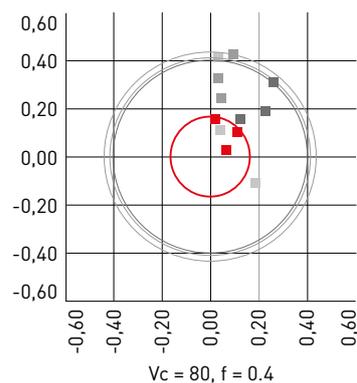
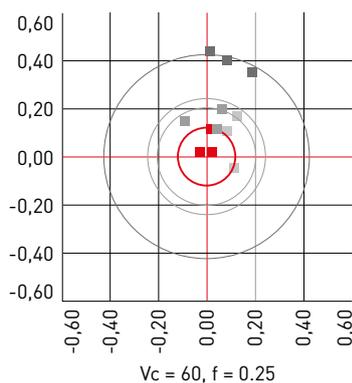
Il doppio margine contribuisce a garantire finiture superficiali dei fori di alta qualità.



- Volume refrigerante aumentato
- Flusso ottimizzato sul bordo
- Evacuazione dei trucioli più rapida

### STABILITÀ (ANALISI CAE)

La punta MPS1 per foratura profonda è progettata per offrire il 20 % in più di resistenza alla flessione, grazie all'ottimizzazione del diametro del nocciolo e dell'angolo dell'elica.



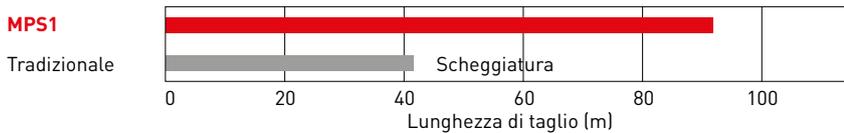
■ Utensile Mitsubishi Materials

■ Convenzionale A ■ Convenzionale B ■ Convenzionale C

## ESEMPI DI APPLICAZIONE

### TEST VITA UTENSILE Ø8 MM CON VELOCITÀ DI TAGLIO STANDARD

Materiale da lavorare	DIN C50
Profondità del foro (mm)	40
Vc (m/min)	120
f (mm/giro)	0.25
Refrigerante	Emulsione
Macchina	Verticale M/C
Risultato	La vita utensile della MPS1 è maggiore di 2,5 volte.



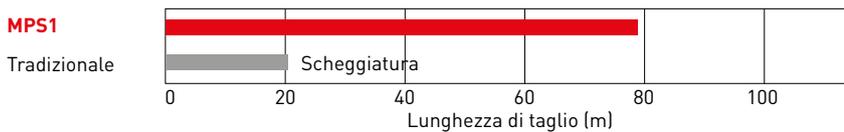
MPS1



Convenzionale

### TEST VITA UTENSILE Ø8 MM CON ALTE VELOCITÀ DI TAGLIO

Materiale da lavorare	DIN C50
Profondità del foro (mm)	40
Vc (m/min)	200
f (mm/giro)	0.35
Refrigerante	Emulsione
Macchina	Verticale M/C
Risultato	La vita utensile della MPS1 è maggiore di 4 volte.



MPS1

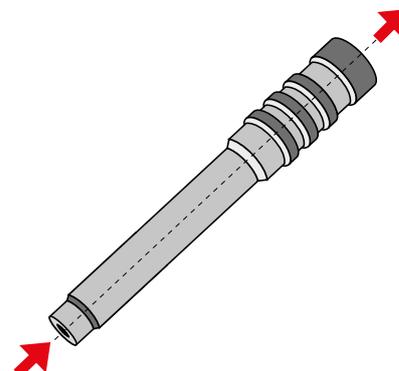
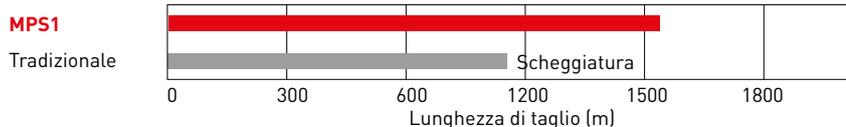


Convenzionale

# PUNTE EXTRA-LUNGHE

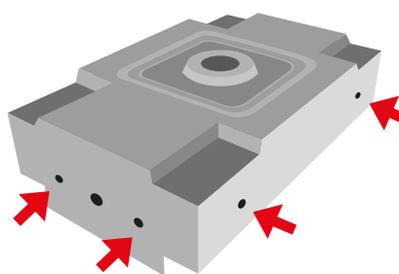
## ESECUZIONE DEL FORO PASSANTE ASSIALE

Utensile	MPS1-0380-L12C
Materiale da lavorare	115MnPb30
Profondità foro (mm)	45 (12 l/d)
Vc (m/min)	75
f (mm/giro)	0.135
Macchina utensile	Tornio CNC a fantina mobile.
Risultato	Vita utensile dell'MPS1 maggiore del 36 %.



## ESECUZIONE DI FORI PER RAFFREDDAMENTO

Utensile	MPS1-0800-L30C
Materiale da lavorare	CR7 V-L (Acciaio per lavorazione a freddo, 1130 N/mm <sup>2</sup> )
Profondità foro (mm)	250 (30 l/d)
Vc (m/min)	120
f (mm/giro)	0.35
Macchina utensile	Centro di lavorazione orizzontale
Risultato	Vita utensile dell'MPS1 maggiore di 2 volte. Rettilineità assiale del foro inferiore a 0,15 mm.



# MPS1



l/d=2  
PC



l/d=3-5  
l/d=10-40

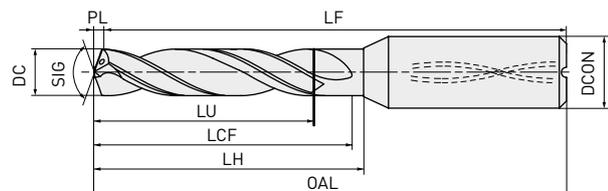


l/d=8

## PUNTA IN METALLO DURO

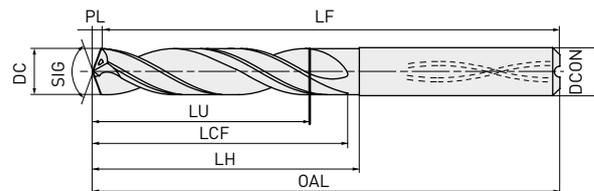


### 1 Stelo cilindrico con collo di scarico conico



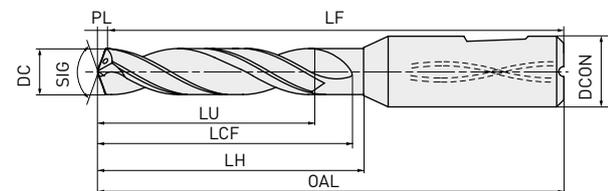
MPS1----S/L-DIN-C/L8C -L40C

### 2 Stelo cilindrico



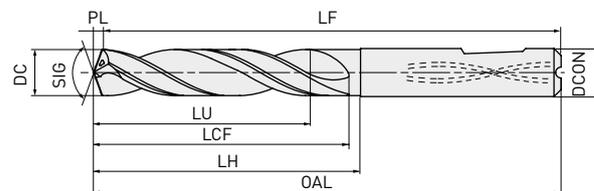
MPS1----S/L-DIN-C/L8C -L40C

### 3 Stelo Whistle Notch con collo di scarico conico



MPS1----S/L-DIN (Whistle Notch)

### 4 Stelo Whistle Notch



MPS1----S/L-DIN (Whistle Notch)

I fori delle punte S-DIN (C) e L-DIN (C) e L8C hanno fori rotondi fino a 6 mm DC.

I fori delle punte da L10C a L40C hanno fori rotondi fino a DC 4,9 mm.

SIG : l/d 3 - 5 e 10 - 40 = 140°, 8 = 135°, PC = 145°



	3<DC≤6	6<DC≤10	10<DC≤18	18<DC≤20
DC Tolleranza (DIN/PC) (mm)	+0.010 -0.002	+0.010 -0.005	+0.005 -0.013	+0.005 -0.016
DC Tolleranza (L_C) (mm)	0 -0.012	0 -0.015	0 -0.018	0 -0.021
DCON Tolleranza (mm)	0 -0.008	0 -0.009	0 -0.011	0 -0.013

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0300S-DIN	3.0	3	61.5	15.0	19.5	24.5	61	0.5	6	□	3
MPS1-0300S-DIN-C		3	61.5	15.0	19.5	24.5	61	0.5	6	●	1
MPS1-0300L-DIN		5	65.5	20.0	24.5	28.5	65	0.5	6	□	3
MPS1-0300L-DIN-C		5	65.5	20.0	24.5	28.5	65	0.5	6	●	1
MPS1-0300-PC		2	55.5	6.5	16.5	19.7	55	0.5	6	●	1
MPS1-0300-L8C		8	76.6	24.6	33.6	39.6	76	0.6	6	●	1
MPS1-0300-L10C		10	79.5	30.5	37.5	42.5	79	0.5	6	●	1
MPS1-0300-L12C		12	85.5	36.5	43.5	48.5	85	0.5	6	●	1
MPS1-0300-L15C		15	94.5	45.5	52.5	57.5	94	0.5	6	●	1
MPS1-0300-L20C		20	109.5	60.5	67.5	72.5	109	0.5	6	●	1
MPS1-0300-L25C		25	124.5	75.5	82.5	87.5	124	0.5	6	●	1
MPS1-0300-L30C		30	139.5	90.5	97.5	102.5	139	0.5	6	●	1
MPS1-0300-L35C		35	158.5	105.5	113.5	121.5	158	0.5	6	□	1
MPS1-0300-L40C		40	173.5	120.5	128.5	136.5	173	0.5	6	●	1

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo	
MPS1-0305S-DIN	3.05	3	61.6	15.0	19.6	24.6	61	0.6	6	□	3	
MPS1-0305S-DIN-C		3	61.6	15.0	19.6	24.6	61	0.6	6	●	1	
MPS1-0305L-DIN		5	65.6	20.0	24.6	28.6	65	0.6	6	□	3	
MPS1-0305L-DIN-C		5	65.6	20.0	24.6	28.6	65	0.6	6	●	1	
MPS1-0310S-DIN	3.1	3	61.6	14.9	19.6	24.6	61	0.6	6	□	3	
MPS1-0310S-DIN-C		3	61.6	14.9	19.6	24.6	61	0.6	6	●	1	
MPS1-0310L-DIN		5	65.6	19.9	24.6	28.6	65	0.6	6	□	3	
MPS1-0310L-DIN-C		5	65.6	19.9	24.6	28.6	65	0.6	6	●	1	
MPS1-0310-PC		2	55.5	6.7	18.5	21.6	55	0.5	6	●	1	
MPS1-0310-L8C		8	82.6	25.4	39.6	45.6	82	0.6	6	●	1	
MPS1-0310-L10C		10	86.6	31.6	44.6	49.6	86	0.6	6	□	1	
MPS1-0310-L12C		12	93.6	37.8	51.6	56.6	93	0.6	6	●	1	
MPS1-0310-L15C		15	103.6	47.1	61.6	66.6	103	0.6	6	●	1	
MPS1-0310-L20C		20	121.6	62.6	79.6	84.6	121	0.6	6	●	1	
MPS1-0310-L25C		25	138.6	78.1	96.6	101.6	138	0.6	6	●	1	
MPS1-0310-L30C		30	156.6	93.6	114.6	119.6	156	0.6	6	●	1	
MPS1-0310-L35C		35	175.6	109.1	123.6	138.6	175	0.6	6	□	1	
MPS1-0310-L40C		40	190.6	124.6	138.6	153.6	190	0.6	6	●	1	
MPS1-0320S-DIN		3.2	3	61.6	14.8	19.6	24.6	61	0.6	6	□	3
MPS1-0320S-DIN-C			3	61.6	14.8	19.6	24.6	61	0.6	6	●	1
MPS1-0320L-DIN	5		65.6	19.8	24.6	28.6	65	0.6	6	□	3	
MPS1-0320L-DIN-C	5		65.6	19.8	24.6	28.6	65	0.6	6	●	1	
MPS1-0320-PC	2		55.5	6.9	18.5	21.5	55	0.5	6	●	1	
MPS1-0320-L8C	8		82.7	26.3	39.7	45.7	82	0.7	6	●	1	
MPS1-0320-L10C	10		86.6	32.6	44.6	49.6	86	0.6	6	□	1	
MPS1-0320-L12C	12		93.6	39.0	51.6	56.6	93	0.6	6	●	1	
MPS1-0320-L15C	15		103.6	48.6	61.6	66.6	103	0.6	6	●	1	
MPS1-0320-L20C	20		121.6	64.6	79.6	84.6	121	0.6	6	●	1	
MPS1-0320-L25C	25		138.6	80.6	96.6	101.6	138	0.6	6	●	1	
MPS1-0320-L30C	30		156.6	96.6	114.6	119.6	156	0.6	6	●	1	
MPS1-0320-L35C	35		175.6	112.6	123.6	138.6	175	0.6	6	□	1	
MPS1-0320-L40C	40		190.6	128.6	138.6	153.6	190	0.6	6	●	1	
MPS1-0330S-DIN	3.3		3	61.6	14.7	19.6	24.6	61	0.6	6	□	3
MPS1-0330S-DIN-C			3	61.6	14.7	19.6	24.6	61	0.6	6	●	1
MPS1-0330L-DIN		5	65.6	20.2	25.1	28.6	65	0.6	6	□	3	
MPS1-0330L-DIN-C		5	65.6	20.2	25.1	28.6	65	0.6	6	●	1	
MPS1-0330-PC		2	55.5	7.1	18.5	21.4	55	0.5	6	●	1	
MPS1-0330-L8C		8	82.7	27.1	39.7	45.7	82	0.7	6	●	1	
MPS1-0330-L10C		10	86.6	33.6	44.6	49.6	86	0.6	6	□	1	
MPS1-0330-L12C		12	93.6	40.2	51.6	56.6	93	0.6	6	●	1	
MPS1-0330-L15C		15	103.6	50.1	61.6	66.6	103	0.6	6	●	1	
MPS1-0330-L20C		20	121.6	66.6	79.6	84.6	121	0.6	6	●	1	
MPS1-0330-L25C		25	138.6	83.1	96.6	101.6	138	0.6	6	●	1	
MPS1-0330-L30C		30	156.6	99.6	114.6	119.6	156	0.6	6	●	1	
MPS1-0330-L35C		35	175.6	116.1	132.6	138.6	175	0.6	6	□	1	
MPS1-0330-L40C		40	190.6	132.6	148.6	153.6	190	0.6	6	●	1	

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## MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0340S-DIN	3.4	3	61.6	14.5	19.6	24.6	61	0.6	6	□	3
MPS1-0340S-DIN-C		3	61.6	14.5	19.6	24.6	61	0.6	6	●	1
MPS1-0340L-DIN		5	65.6	20.0	25.1	28.6	65	0.6	6	□	3
MPS1-0340L-DIN-C		5	65.6	20.0	25.1	28.6	65	0.6	6	●	1
MPS1-0340-PC		2	55.5	7.3	18.5	21.3	55	0.5	6	●	1
MPS1-0340-L8C		8	82.7	27.9	39.7	45.7	82	0.7	6	●	1
MPS1-0340-L10C		10	86.6	34.6	44.6	49.6	86	0.6	6	□	1
MPS1-0340-L12C		12	93.6	41.4	51.6	56.6	93	0.6	6	●	1
MPS1-0340-L15C		15	103.6	51.6	61.6	66.6	103	0.6	6	●	1
MPS1-0340-L20C		20	121.6	68.6	79.6	84.6	121	0.6	6	●	1
MPS1-0340-L25C		25	138.6	85.6	96.6	101.6	138	0.6	6	●	1
MPS1-0340-L30C		30	156.6	102.6	114.6	119.6	156	0.6	6	●	1
MPS1-0340-L35C		35	175.6	119.6	132.6	138.6	175	0.6	6	□	1
MPS1-0340-L40C		40	190.6	136.6	148.6	153.6	190	0.6	6	●	1
MPS1-0350S-DIN	3.5	3	61.6	14.4	19.6	24.6	61	0.6	6	□	3
MPS1-0350S-DIN-C		3	61.6	14.4	19.6	24.6	61	0.6	6	●	1
MPS1-0350L-DIN		5	65.6	19.9	25.1	28.6	65	0.6	6	□	3
MPS1-0350L-DIN-C		5	65.6	19.9	25.1	28.6	65	0.6	6	●	1
MPS1-0350-PC		2	55.6	7.6	18.6	21.2	55	0.6	6	●	1
MPS1-0350-L8C		8	82.7	28.7	39.7	45.7	82	0.7	6	●	1
MPS1-0350-L10C		10	86.6	35.6	44.6	49.6	86	0.6	6	□	1
MPS1-0350-L12C		12	93.6	42.6	51.6	56.6	93	0.6	6	●	1
MPS1-0350-L15C		15	103.6	53.1	61.6	66.6	103	0.6	6	●	1
MPS1-0350-L20C		20	121.6	70.6	79.6	84.6	121	0.6	6	●	1
MPS1-0350-L25C		25	138.6	88.1	96.6	101.6	138	0.6	6	●	1
MPS1-0350-L30C		30	156.6	105.6	114.6	119.6	156	0.6	6	●	1
MPS1-0350-L35C		35	175.6	123.1	132.6	138.6	175	0.6	6	□	1
MPS1-0350-L40C		40	190.6	140.6	148.6	153.6	190	0.6	6	●	1
MPS1-0360S-DIN	3.6	3	61.7	14.3	19.7	24.7	61	0.7	6	□	3
MPS1-0360S-DIN-C		3	61.7	14.3	19.7	24.7	61	0.7	6	●	1
MPS1-0360L-DIN		5	65.7	19.8	25.2	28.7	65	0.7	6	□	3
MPS1-0360L-DIN-C		5	65.7	19.8	25.2	28.7	65	0.7	6	●	1
MPS1-0360-PC		2	55.6	7.8	20.6	23.1	55	0.6	6	□	1
MPS1-0360-L8C		8	87.7	29.5	44.7	50.7	87	0.7	6	●	1
MPS1-0360-L10C		10	92.7	36.7	50.7	55.7	92	0.7	6	□	1
MPS1-0360-L12C		12	100.7	43.9	58.7	63.7	100	0.7	6	●	1
MPS1-0360-L15C		15	112.7	54.7	70.7	75.7	112	0.7	6	●	1
MPS1-0360-L20C		20	132.7	72.7	90.7	95.7	132	0.7	6	●	1
MPS1-0360-L25C		25	152.7	90.7	110.7	115.7	152	0.7	6	□	1
MPS1-0360-L30C		30	172.7	108.7	130.7	135.7	172	0.7	6	●	1
MPS1-0360-L35C		35	192.7	126.7	143.7	155.7	192	0.7	6	□	1
MPS1-0360-L40C		40	212.7	144.7	160.7	175.7	212	0.7	6	●	1

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0370S-DIN	3.7	3	61.7	14.1	19.7	24.7	61	0.7	6	□	3
MPS1-0370S-DIN-C		3	61.7	14.1	19.7	24.7	61	0.7	6	●	1
MPS1-0370L-DIN		5	65.7	20.1	25.7	28.7	65	0.7	6	□	3
MPS1-0370L-DIN-C		5	65.7	20.1	25.7	28.7	65	0.7	6	●	1
MPS1-0370-PC		2	55.6	8.0	20.6	23.1	55	0.6	6	●	1
MPS1-0370-L8C		8	87.8	30.4	44.8	50.8	87	0.8	6	●	1
MPS1-0370-L10C		10	92.7	37.7	50.7	55.7	92	0.7	6	□	1
MPS1-0370-L12C		12	100.7	45.1	58.7	63.7	100	0.7	6	●	1
MPS1-0370-L15C		15	112.7	56.2	70.7	75.7	112	0.7	6	●	1
MPS1-0370-L20C		20	132.7	74.7	90.7	95.7	132	0.7	6	●	1
MPS1-0370-L25C		25	152.7	93.2	110.7	115.7	152	0.7	6	●	1
MPS1-0370-L30C		30	172.7	111.7	130.7	135.7	172	0.7	6	●	1
MPS1-0370-L35C		35	192.7	130.2	143.7	155.7	192	0.7	6	□	1
MPS1-0370-L40C		40	212.7	148.7	160.7	175.7	212	0.7	6	●	1
MPS1-0380S-DIN	3.8	3	65.7	18.0	23.7	28.7	65	0.7	6	□	3
MPS1-0380S-DIN-C		3	65.7	18.0	23.7	28.7	65	0.7	6	●	1
MPS1-0380L-DIN		5	73.7	28.0	33.7	36.7	73	0.7	6	□	3
MPS1-0380L-DIN-C		5	73.7	28.0	33.7	36.7	73	0.7	6	●	1
MPS1-0380-PC		2	55.6	8.2	20.6	23.0	55	0.6	6	●	1
MPS1-0380-L8C		8	87.8	31.2	44.8	50.8	87	0.8	6	●	1
MPS1-0380-L10C		10	92.7	38.7	50.7	55.7	92	0.7	6	□	1
MPS1-0380-L12C		12	100.7	46.3	58.7	63.7	100	0.7	6	●	1
MPS1-0380-L15C		15	112.7	57.7	70.7	75.7	112	0.7	6	●	1
MPS1-0380-L20C		20	132.7	76.7	90.7	95.7	132	0.7	6	●	1
MPS1-0380-L25C		25	152.7	95.7	110.7	115.7	152	0.7	6	●	1
MPS1-0380-L30C		30	172.7	114.7	130.7	135.7	172	0.7	6	●	1
MPS1-0380-L35C		35	192.7	133.7	150.7	155.7	192	0.7	6	□	1
MPS1-0380-L40C		40	212.7	152.7	170.7	175.7	212	0.7	6	●	1
MPS1-0390S-DIN	3.9	3	65.7	17.9	23.7	28.7	65	0.7	6	□	3
MPS1-0390S-DIN-C		3	65.7	17.9	23.7	28.7	65	0.7	6	●	1
MPS1-0390L-DIN		5	73.7	27.9	33.7	36.7	73	0.7	6	□	3
MPS1-0390L-DIN-C		5	73.7	27.9	33.7	36.7	73	0.7	6	●	1
MPS1-0390-PC		2	55.6	8.4	20.6	22.9	55	0.6	6	●	1
MPS1-0390-L8C		8	87.8	32.0	44.8	50.8	87	0.8	6	●	1
MPS1-0390-L10C		10	92.7	39.7	50.7	55.7	92	0.7	6	□	1
MPS1-0390-L12C		12	100.7	47.5	58.7	63.7	100	0.7	6	●	1
MPS1-0390-L15C		15	112.7	59.2	70.7	75.7	112	0.7	6	●	1
MPS1-0390-L20C		20	132.7	78.7	90.7	95.7	132	0.7	6	●	1
MPS1-0390-L25C		25	152.7	98.2	110.7	115.7	152	0.7	6	□	1
MPS1-0390-L30C		30	172.7	117.7	130.7	135.7	172	0.7	6	●	1
MPS1-0390-L35C		35	192.7	137.2	150.7	155.7	192	0.7	6	□	1
MPS1-0390-L40C		40	212.7	156.7	170.7	175.7	212	0.7	6	●	1

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0400S-DIN	4.0	3	65.7	17.7	23.7	28.7	65	0.7	6	□	3
MPS1-0400S-DIN-C		3	65.7	17.7	23.7	28.7	65	0.7	6	●	1
MPS1-0400L-DIN		5	73.7	27.7	33.7	36.7	73	0.7	6	□	3
MPS1-0400L-DIN-C		5	73.7	27.7	33.7	36.7	73	0.7	6	●	1
MPS1-0400-PC		2	55.6	8.6	20.6	22.8	55	0.6	6	●	1
MPS1-0400-L8C		8	87.8	32.8	44.8	50.8	87	0.8	6	●	1
MPS1-0400-L10C		10	92.7	40.7	50.7	55.7	92	0.7	6	●	1
MPS1-0400-L12C		12	100.7	48.7	58.7	63.7	100	0.7	6	●	1
MPS1-0400-L15C		15	112.7	60.7	70.7	75.7	112	0.7	6	●	1
MPS1-0400-L20C		20	132.7	80.7	90.7	95.7	132	0.7	6	●	1
MPS1-0400-L25C		25	152.7	100.7	110.7	115.7	152	0.7	6	●	1
MPS1-0400-L30C		30	172.7	120.7	130.7	135.7	172	0.7	6	●	1
MPS1-0400-L35C		35	192.7	140.7	150.7	155.7	192	0.7	6	□	1
MPS1-0400-L40C		40	212.7	160.7	170.7	175.7	212	0.7	6	●	1
MPS1-0405S-DIN	4.05	3	65.7	17.7	23.7	28.7	65	0.7	6	□	3
MPS1-0405S-DIN-C		3	65.7	17.7	23.7	28.7	65	0.7	6	●	1
MPS1-0405L-DIN		5	73.7	27.7	33.7	36.7	73	0.7	6	□	3
MPS1-0405L-DIN-C		5	73.7	27.7	33.7	36.7	73	0.7	6	●	1
MPS1-0410S-DIN	4.1	3	65.7	17.6	23.7	28.7	65	0.7	6	□	3
MPS1-0410S-DIN-C		3	65.7	17.6	23.7	28.7	65	0.7	6	●	1
MPS1-0410L-DIN		5	73.7	27.6	33.7	36.7	73	0.7	6	□	3
MPS1-0410L-DIN-C		5	73.7	27.6	33.7	36.7	73	0.7	6	●	1
MPS1-0410-PC		2	62.6	8.8	22.6	24.7	62	0.6	6	●	1
MPS1-0410-L8C		8	92.8	33.6	50.8	55.8	92	0.8	6	●	1
MPS1-0410-L10C		10	99.7	41.7	58.7	62.7	99	0.7	6	□	1
MPS1-0410-L12C		12	108.7	49.9	67.7	71.7	108	0.7	6	●	1
MPS1-0410-L15C		15	121.7	62.2	80.7	84.7	121	0.7	6	●	1
MPS1-0410-L20C		20	144.7	82.7	103.7	107.7	144	0.7	6	●	1
MPS1-0410-L25C		25	166.7	103.2	125.7	129.7	166	0.7	6	●	1
MPS1-0410-L30C		30	189.7	123.7	148.7	152.7	189	0.7	6	●	1
MPS1-0410-L35C		35	211.7	144.2	164.7	174.7	211	0.7	6	□	1
MPS1-0410-L40C		40	235.7	164.7	184.7	198.7	235	0.7	6	●	1
MPS1-0420S-DIN	4.2	3	65.8	17.5	23.8	28.8	65	0.8	6	□	3
MPS1-0420S-DIN-C		3	65.8	17.5	23.8	28.8	65	0.8	6	●	1
MPS1-0420L-DIN		5	73.8	28.0	34.3	36.8	73	0.8	6	□	3
MPS1-0420L-DIN-C		5	73.8	28.0	34.3	36.8	73	0.8	6	●	1
MPS1-0420-PC		2	62.7	9.1	22.7	24.6	62	0.7	6	●	1
MPS1-0420-L8C		8	92.9	34.5	50.9	55.9	92	0.9	6	●	1
MPS1-0420-L10C		10	99.8	42.8	58.8	62.8	99	0.8	6	□	1
MPS1-0420-L12C		12	108.8	51.2	67.8	71.8	108	0.8	6	●	1
MPS1-0420-L15C		15	121.8	63.8	80.8	84.8	121	0.8	6	●	1
MPS1-0420-L20C		20	144.8	84.8	103.8	107.8	144	0.8	6	●	1
MPS1-0420-L25C		25	166.8	105.8	125.8	129.8	166	0.8	6	●	1
MPS1-0420-L30C		30	189.8	126.8	148.8	152.8	189	0.8	6	●	1
MPS1-0420-L35C		35	211.8	147.8	164.8	174.8	211	0.8	6	●	1
MPS1-0420-L40C		40	235.8	168.8	184.8	198.8	235	0.8	6	●	1

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0430S-DIN		3	65.8	17.3	23.8	28.8	65	0.8	6	□	3
MPS1-0430S-DIN-C		3	65.8	17.3	23.8	28.8	65	0.8	6	●	1
MPS1-0430L-DIN		5	73.8	27.8	34.3	36.8	73	0.8	6	□	3
MPS1-0430L-DIN-C		5	73.8	27.8	34.3	36.8	73	0.8	6	●	1
MPS1-0430-PC		2	62.7	9.3	22.7	24.5	62	0.7	6	●	1
MPS1-0430-L8C		8	92.9	35.3	50.9	55.9	92	0.9	6	●	1
MPS1-0430-L10C	4.3	10	99.8	43.8	58.8	62.8	99	0.8	6	□	1
MPS1-0430-L12C		12	108.8	52.4	67.8	71.8	108	0.8	6	●	1
MPS1-0430-L15C		15	121.8	65.3	80.8	84.8	121	0.8	6	●	1
MPS1-0430-L20C		20	144.8	86.8	103.8	107.8	144	0.8	6	●	1
MPS1-0430-L25C		25	166.8	108.3	125.8	129.8	166	0.8	6	●	1
MPS1-0430-L30C		30	189.8	129.8	148.8	152.8	189	0.8	6	●	1
MPS1-0430-L35C		35	211.8	151.3	170.8	174.8	211	0.8	6	□	1
MPS1-0430-L40C		40	235.8	172.8	194.8	198.8	235	0.8	6	●	1
MPS1-0440S-DIN		3	65.8	17.2	23.8	28.8	65	0.8	6	□	3
MPS1-0440S-DIN-C		3	65.8	17.2	23.8	28.8	65	0.8	6	●	1
MPS1-0440L-DIN		5	73.8	27.7	34.3	36.8	73	0.8	6	□	3
MPS1-0440L-DIN-C		5	73.8	27.7	34.3	36.8	73	0.8	6	●	1
MPS1-0440-PC		2	62.7	9.5	22.7	24.4	62	0.7	6	●	1
MPS1-0440-L8C		8	92.9	36.1	50.9	55.9	92	0.9	6	●	1
MPS1-0440-L10C	4.4	10	99.8	44.8	58.8	62.8	99	0.8	6	□	1
MPS1-0440-L12C		12	108.8	53.6	67.8	71.8	108	0.8	6	●	1
MPS1-0440-L15C		15	121.8	66.8	80.8	84.8	121	0.8	6	●	1
MPS1-0440-L20C		20	144.8	88.8	103.8	107.8	144	0.8	6	□	1
MPS1-0440-L25C		25	166.8	110.8	125.8	129.8	166	0.8	6	□	1
MPS1-0440-L30C		30	189.8	132.8	148.8	152.8	189	0.8	6	□	1
MPS1-0440-L35C		35	211.8	154.8	170.8	174.8	211	0.8	6	□	1
MPS1-0440-L40C		40	235.8	176.8	194.8	198.8	235	0.8	6	●	1
MPS1-0450S-DIN		3	65.8	17.1	23.8	28.8	65	0.8	6	□	3
MPS1-0450S-DIN-C		3	65.8	17.1	23.8	28.8	65	0.8	6	●	1
MPS1-0450L-DIN		5	73.8	27.6	34.3	36.8	73	0.8	6	□	3
MPS1-0450L-DIN-C		5	73.8	27.6	34.3	36.8	73	0.8	6	●	1
MPS1-0450-PC		2	62.7	9.7	22.7	24.3	62	0.7	6	●	1
MPS1-0450-L8C		8	92.9	36.9	50.9	55.9	92	0.9	6	●	1
MPS1-0450-L10C	4.5	10	99.8	45.8	58.8	62.8	99	0.8	6	□	1
MPS1-0450-L12C		12	108.8	54.8	67.8	71.8	108	0.8	6	●	1
MPS1-0450-L15C		15	121.8	68.3	80.8	84.8	121	0.8	6	●	1
MPS1-0450-L20C		20	144.8	90.8	103.8	107.8	144	0.8	6	●	1
MPS1-0450-L25C		25	166.8	113.3	125.8	129.8	166	0.8	6	●	1
MPS1-0450-L30C		30	189.8	135.8	148.8	152.8	189	0.8	6	●	1
MPS1-0450-L35C		35	211.8	158.3	170.8	174.8	211	0.8	6	□	1
MPS1-0450-L40C		40	235.8	180.8	194.8	198.8	235	0.8	6	●	1

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## MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0460S-DIN	4.6	3	65.8	16.9	23.8	28.8	65	0.8	6	□	4
MPS1-0460S-DIN-C		3	65.8	16.9	23.8	28.8	65	0.8	6	●	2
MPS1-0460L-DIN		5	73.8	28.9	35.8	36.8	73	0.8	6	□	4
MPS1-0460L-DIN-C		5	73.8	28.9	35.8	36.8	73	0.8	6	●	2
MPS1-0460-PC		2	62.7	9.9	24.7	27.7	62	0.7	6	●	2
MPS1-0460-L8C		8	96.0	37.8	56.0	59.0	95	1.0	6	●	2
MPS1-0460-L10C		10	105.8	46.8	65.8	68.8	105	0.8	6	□	2
MPS1-0460-L12C		12	115.8	56.0	75.8	78.8	115	0.8	6	●	2
MPS1-0460-L15C		15	130.8	69.8	90.8	93.8	130	0.8	6	●	2
MPS1-0460-L20C		20	155.8	92.8	115.8	118.8	155	0.8	6	●	2
MPS1-0460-L25C		25	180.8	115.8	140.8	143.8	180	0.8	6	●	2
MPS1-0460-L30C		30	205.8	138.8	165.8	168.8	205	0.8	6	●	2
MPS1-0460-L35C		35	229.8	161.8	184.8	192.8	229	0.8	6	□	2
MPS1-0460-L40C		40	254.8	184.8	204.8	217.8	254	0.8	6	●	2
MPS1-0465S-DIN	4.65	3	65.8	16.9	23.8	28.8	65	0.8	6	□	4
MPS1-0465S-DIN-C		3	65.8	16.9	23.8	28.8	65	0.8	6	●	2
MPS1-0465L-DIN		5	73.8	28.9	35.8	36.8	73	0.8	6	□	4
MPS1-0465L-DIN-C		5	73.8	28.9	35.8	36.8	73	0.8	6	●	2
MPS1-0470S-DIN	4.7	3	65.9	16.8	23.9	28.9	65	0.9	6	□	4
MPS1-0470S-DIN-C		3	65.9	16.8	23.9	28.9	65	0.9	6	●	2
MPS1-0470L-DIN		5	73.9	28.8	35.9	36.9	73	0.9	6	□	4
MPS1-0470L-DIN-C		5	73.9	28.8	35.9	36.9	73	0.9	6	●	2
MPS1-0470-PC		2	62.7	10.1	24.7	27.7	62	0.7	6	●	2
MPS1-0470-L8C		8	96.0	38.6	56.0	59.0	95	1.0	6	●	2
MPS1-0470-L10C		10	105.9	47.9	65.9	68.9	105	0.9	6	□	2
MPS1-0470-L12C		12	115.9	57.3	75.9	78.9	115	0.9	6	●	2
MPS1-0470-L15C		15	130.9	71.4	90.9	93.9	130	0.9	6	●	2
MPS1-0470-L20C		20	155.9	94.9	115.9	118.9	155	0.9	6	●	2
MPS1-0470-L25C		25	180.9	118.4	140.9	143.9	180	0.9	6	●	2
MPS1-0470-L30C		30	205.9	141.9	165.9	168.9	205	0.9	6	●	2
MPS1-0470-L35C		35	229.9	165.4	184.9	192.9	229	0.9	6	□	2
MPS1-0470-L40C		40	254.9	188.9	204.9	217.9	254	0.9	6	●	2
MPS1-0480S-DIN	4.8	3	65.9	20.7	27.9	28.9	65	0.9	6	□	4
MPS1-0480S-DIN-C		3	65.9	20.7	27.9	28.9	65	0.9	6	●	2
MPS1-0480L-DIN		5	81.9	36.7	43.9	44.9	81	0.9	6	□	4
MPS1-0480L-DIN-C		5	81.9	36.7	43.9	44.9	81	0.9	6	●	2
MPS1-0480-PC		2	62.8	10.4	24.8	27.8	62	0.8	6	●	2
MPS1-0480-L8C		8	96.0	39.4	56.0	59.0	95	1.0	6	●	2
MPS1-0480-L10C		10	105.9	48.9	65.9	68.9	105	0.9	6	□	2
MPS1-0480-L12C		12	115.9	58.5	75.9	78.9	115	0.9	6	●	2
MPS1-0480-L15C		15	130.9	72.9	90.9	93.9	130	0.9	6	●	2
MPS1-0480-L20C		20	155.9	96.9	115.9	118.9	155	0.9	6	●	2
MPS1-0480-L25C		25	180.9	120.9	140.9	143.9	180	0.9	6	●	2
MPS1-0480-L30C		30	205.9	144.9	165.9	168.9	205	0.9	6	●	2
MPS1-0480-L35C		35	229.9	168.9	190.9	192.9	229	0.9	6	□	2
MPS1-0480-L40C		40	254.9	192.9	215.9	217.9	254	0.9	6	●	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo	
MPS1-0490S-DIN	4.9	3	65.9	20.5	27.9	28.9	65	0.9	6	□	4	
MPS1-0490S-DIN-C		3	65.9	20.5	27.9	28.9	65	0.9	6	●	2	
MPS1-0490L-DIN		5	81.9	36.5	43.9	44.9	81	0.9	6	□	4	
MPS1-0490L-DIN-C		5	81.9	36.5	43.9	44.9	81	0.9	6	●	2	
MPS1-0490-PC		2	62.8	10.6	24.8	27.8	62	0.8	6	●	2	
MPS1-0490-L8C		8	96.0	40.2	56.0	59.0	95	1.0	6	●	2	
MPS1-0490-L10C		10	105.9	49.9	65.9	68.9	105	0.9	6	□	2	
MPS1-0490-L12C		12	115.9	59.7	75.9	78.9	115	0.9	6	●	2	
MPS1-0490-L15C		15	130.9	74.4	90.9	93.9	130	0.9	6	●	2	
MPS1-0490-L20C		20	155.9	98.9	115.9	118.9	155	0.9	6	●	2	
MPS1-0490-L25C		25	180.9	123.4	140.9	143.9	180	0.9	6	●	2	
MPS1-0490-L30C		30	205.9	147.9	165.9	168.9	205	0.9	6	●	2	
MPS1-0490-L35C		35	229.9	172.4	190.9	192.9	229	0.9	6	□	2	
MPS1-0490-L40C		40	254.9	196.9	215.9	217.9	254	0.9	6	●	2	
MPS1-0500S-DIN	5.0	3	65.9	20.4	27.9	28.9	65	0.9	6	□	4	
MPS1-0500S-DIN-C		3	65.9	20.4	27.9	28.9	65	0.9	6	●	2	
MPS1-0500L-DIN		5	81.9	36.4	43.9	44.9	81	0.9	6	□	4	
MPS1-0500L-DIN-C		5	81.9	36.4	43.9	44.9	81	0.9	6	●	2	
MPS1-0500-PC		2	62.8	10.8	24.8	25.8	62	0.8	6	●	2	
MPS1-0500-L8C		8	96.0	41.0	56.0	59.0	95	1.0	6	●	2	
MPS1-0500-L10C		10	105.9	50.9	65.9	68.9	105	0.9	6	●	2	
MPS1-0500-L12C		12	115.9	60.9	75.9	78.9	115	0.9	6	●	2	
MPS1-0500-L15C		15	130.9	75.9	90.9	93.9	130	0.9	6	●	2	
MPS1-0500-L20C		20	155.9	100.9	115.9	118.9	155	0.9	6	●	2	
MPS1-0500-L25C		25	180.9	125.9	140.9	143.9	180	0.9	6	●	2	
MPS1-0500-L30C		30	205.9	150.9	165.9	168.9	205	0.9	6	●	2	
MPS1-0500-L35C		35	229.9	175.9	190.9	192.9	229	0.9	6	□	2	
MPS1-0500-L40C		40	254.9	200.9	215.9	217.9	254	0.9	6	●	2	
MPS1-0505S-DIN	5.05	3	65.9	20.3	27.9	28.9	65	0.9	6	□	4	
MPS1-0505S-DIN-C		3	65.9	20.3	27.9	28.9	65	0.9	6	●	2	
MPS1-0505L-DIN		5	81.9	36.3	43.9	44.9	81	0.9	6	□	4	
MPS1-0505L-DIN-C		5	81.9	36.3	43.9	44.9	81	0.9	6	●	2	
MPS1-0510S-DIN		5.1	3	65.9	20.3	27.9	28.9	65	0.9	6	□	4
MPS1-0510S-DIN-C			3	65.9	20.3	27.9	28.9	65	0.9	6	●	2
MPS1-0510L-DIN			5	81.9	36.3	43.9	44.9	81	0.9	6	□	4
MPS1-0510L-DIN-C			5	81.9	36.3	43.9	44.9	81	0.9	6	●	2
MPS1-0510-PC			2	66.8	11.0	26.8	28.8	66	0.8	6	●	2
MPS1-0510-L8C			8	102.1	41.9	62.1	65.1	101	1.1	6	●	2
MPS1-0510-L10C			10	112.9	51.9	72.9	75.9	112	0.9	6	□	2
MPS1-0510-L12C			12	123.9	62.1	83.9	86.9	123	0.9	6	●	2
MPS1-0510-L15C			15	139.9	77.4	99.9	102.9	139	0.9	6	●	2
MPS1-0510-L20C			20	167.9	102.9	127.9	130.9	167	0.9	6	●	2
MPS1-0510-L25C	25		194.9	128.4	154.9	157.9	194	0.9	6	●	2	
MPS1-0510-L30C	30		222.9	153.9	182.9	185.9	222	0.9	6	●	2	
MPS1-0510-L35C	35		248.9	179.4	203.9	211.9	248	0.9	6	□	2	
MPS1-0510-L40C	40		278.9	204.9	230.9	241.9	278	0.9	6	●	2	

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0520S-DIN	5.2	3	65.9	20.1	27.9	28.9	65	0.9	6	□	4
MPS1-0520S-DIN-C		3	65.9	20.1	27.9	28.9	65	0.9	6	●	2
MPS1-0520L-DIN		5	81.9	36.1	43.9	44.9	81	0.9	6	□	4
MPS1-0520L-DIN-C		5	81.9	36.1	43.9	44.9	81	0.9	6	●	2
MPS1-0520-PC		2	66.8	11.2	26.8	28.8	66	0.8	6	●	2
MPS1-0520-L8C		8	102.1	42.7	62.1	65.1	101	1.1	6	●	2
MPS1-0520-L10C		10	112.9	52.9	72.9	75.9	112	0.9	6	□	2
MPS1-0520-L12C		12	123.9	63.3	83.9	86.9	123	0.9	6	●	2
MPS1-0520-L15C		15	139.9	78.9	99.9	102.9	139	0.9	6	●	2
MPS1-0520-L20C		20	167.9	104.9	127.9	130.9	167	0.9	6	●	2
MPS1-0520-L25C		25	194.9	130.9	154.9	157.9	194	0.9	6	●	2
MPS1-0520-L30C		30	222.9	156.9	182.9	185.9	222	0.9	6	●	2
MPS1-0520-L35C		35	248.9	182.9	203.9	211.9	248	0.9	6	□	2
MPS1-0520-L40C		40	278.9	208.9	230.9	241.9	278	0.9	6	●	2
MPS1-0530S-DIN	5.3	3	66.0	20.0	28.0	29.0	65	1.0	6	□	4
MPS1-0530S-DIN-C		3	66.0	20.0	28.0	29.0	65	1.0	6	●	2
MPS1-0530L-DIN		5	82.0	36.0	44.0	45.0	81	1.0	6	□	4
MPS1-0530L-DIN-C		5	82.0	36.0	44.0	45.0	81	1.0	6	●	2
MPS1-0530-PC		2	66.8	11.4	26.8	28.8	66	0.8	6	●	2
MPS1-0530-L8C		8	102.1	43.5	62.1	65.1	101	1.1	6	●	2
MPS1-0530-L10C		10	113.0	54.0	73.0	76.0	112	1.0	6	□	2
MPS1-0530-L12C		12	124.0	64.6	84.0	87.0	123	1.0	6	●	2
MPS1-0530-L15C		15	140.0	80.5	100.0	103.0	139	1.0	6	●	2
MPS1-0530-L20C		20	168.0	107.0	128.0	131.0	167	1.0	6	□	2
MPS1-0530-L25C		25	195.0	133.5	155.0	158.0	194	1.0	6	●	2
MPS1-0530-L30C		30	223.0	160.0	183.0	186.0	222	1.0	6	●	2
MPS1-0530-L35C		35	249.0	186.5	210.0	212.0	248	1.0	6	□	2
MPS1-0530-L40C		40	279.0	213.0	241.0	242.0	278	1.0	6	●	2
MPS1-0540S-DIN	5.4	3	66.0	19.9	28.0	29.0	65	1.0	6	□	2
MPS1-0540S-DIN-C		3	66.0	19.9	28.0	29.0	65	1.0	6	●	4
MPS1-0540L-DIN		5	82.0	35.9	44.0	45.0	81	1.0	6	□	4
MPS1-0540L-DIN-C		5	82.0	35.9	44.0	45.0	81	1.0	6	●	2
MPS1-0540-PC		2	66.9	11.7	26.9	28.9	66	0.9	6	●	2
MPS1-0540-L8C		8	102.1	44.3	62.1	65.1	101	1.1	6	●	2
MPS1-0540-L10C		10	113.0	55.0	73.0	76.0	112	1.0	6	□	2
MPS1-0540-L12C		12	124.0	65.8	84.0	87.0	123	1.0	6	●	2
MPS1-0540-L15C		15	140.0	82.0	100.0	103.0	139	1.0	6	●	2
MPS1-0540-L20C		20	168.0	109.0	128.0	131.0	167	1.0	6	□	2
MPS1-0540-L25C		25	195.0	136.0	155.0	158.0	194	1.0	6	□	2
MPS1-0540-L30C		30	223.0	163.0	183.0	186.0	222	1.0	6	□	2
MPS1-0540-L35C		35	249.0	190.0	210.0	212.0	248	1.0	6	□	2
MPS1-0540-L40C		40	279.0	217.0	241.0	242.0	278	1.0	6	●	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo	
MPS1-0550S-DIN	5.5	3	66.0	19.8	28.0	29.0	65	1.0	6	□	4	
MPS1-0550S-DIN-C		3	66.0	19.8	28.0	29.0	65	1.0	6	●	2	
MPS1-0550L-DIN		5	82.0	35.8	44.0	45.0	81	1.0	6	□	4	
MPS1-0550L-DIN-C		5	82.0	35.8	44.0	45.0	81	1.0	6	●	2	
MPS1-0550-PC		2	66.9	11.9	26.9	28.9	66	0.9	6	●	2	
MPS1-0550-L8C		8	102.1	45.1	62.1	65.1	101	1.1	6	●	2	
MPS1-0550-L10C		10	113.0	56.0	73.0	76.0	112	1.0	6	□	2	
MPS1-0550-L12C		12	124.0	67.0	84.0	87.0	123	1.0	6	●	2	
MPS1-0550-L15C		15	140.0	83.5	100.0	103.0	139	1.0	6	●	2	
MPS1-0550-L20C		20	168.0	111.0	128.0	131.0	167	1.0	6	●	2	
MPS1-0550-L25C		25	195.0	138.5	155.0	158.0	194	1.0	6	●	2	
MPS1-0550-L30C		30	223.0	166.0	183.0	186.0	222	1.0	6	●	2	
MPS1-0550-L35C		35	249.0	193.5	210.0	212.0	248	1.0	6	□	2	
MPS1-0550-L40C		40	279.0	221.0	241.0	242.0	278	1.0	6	●	2	
MPS1-0555S-DIN	5.55	3	66.0	19.7	28.0	29.0	65	1.0	6	□	4	
MPS1-0555S-DIN-C		3	66.0	19.7	28.0	29.0	65	1.0	6	●	2	
MPS1-0555L-DIN		5	82.0	35.7	44.0	45.0	81	1.0	6	□	4	
MPS1-0555L-DIN-C		5	82.0	35.7	44.0	45.0	81	1.0	6	●	2	
MPS1-0560S-DIN	5.6	3	66.0	19.6	28.0	29.0	65	1.0	6	□	4	
MPS1-0560S-DIN-C		3	66.0	19.6	28.0	29.0	65	1.0	6	●	2	
MPS1-0560L-DIN		5	82.0	35.6	44.0	45.0	81	1.0	6	□	4	
MPS1-0560L-DIN-C		5	82.0	35.6	44.0	45.0	81	1.0	6	●	2	
MPS1-0560-PC		2	66.9	12.1	28.9	28.9	66	0.9	6	●	2	
MPS1-0560-L8C		8	107.2	46.0	67.2	70.2	106	1.2	6	●	2	
MPS1-0560-L10C		10	119.0	57.0	79.0	82.0	118	1.0	6	□	2	
MPS1-0560-L12C		12	131.0	68.2	91.0	94.0	130	1.0	6	●	2	
MPS1-0560-L15C		15	149.0	85.0	109.0	112.0	148	1.0	6	●	2	
MPS1-0560-L20C		20	179.0	113.0	139.0	142.0	178	1.0	6	□	2	
MPS1-0560-L25C		25	209.0	141.0	169.0	172.0	208	1.0	6	□	2	
MPS1-0560-L30C		30	239.0	169.0	199.0	202.0	238	1.0	6	●	2	
MPS1-0560-L35C		35	268.0	197.0	223.0	231.0	267	1.0	6	□	2	
MPS1-0560-L40C		40	299.0	225.0	251.0	262.0	298	1.0	6	●	2	
MPS1-0570S-DIN		5.7	3	66.0	19.5	28.0	29.0	65	1.0	6	□	4
MPS1-0570S-DIN-C			3	66.0	19.5	28.0	29.0	65	1.0	6	●	2
MPS1-0570L-DIN	5		82.0	35.5	44.0	45.0	81	1.0	6	□	4	
MPS1-0570L-DIN-C	5		82.0	35.5	44.0	45.0	81	1.0	6	●	2	
MPS1-0570-PC	2		66.9	12.3	28.9	28.9	66	0.9	6	●	2	
MPS1-0570-L8C	8		107.2	46.8	67.2	70.2	106	1.2	6	●	2	
MPS1-0570-L10C	10		119.0	58.0	79.0	82.0	118	1.0	6	□	2	
MPS1-0570-L12C	12		131.0	69.4	91.0	94.0	130	1.0	6	●	2	
MPS1-0570-L15C	15		149.0	86.5	109.0	112.0	148	1.0	6	●	2	
MPS1-0570-L20C	20		179.0	115.0	139.0	142.0	178	1.0	6	□	2	
MPS1-0570-L25C	25		209.0	143.5	169.0	172.0	208	1.0	6	●	2	
MPS1-0570-L30C	30		239.0	172.0	199.0	202.0	238	1.0	6	□	2	
MPS1-0570-L35C	35		268.0	200.5	223.0	231.0	267	1.0	6	□	2	
MPS1-0570-L40C	40		299.0	229.0	251.0	262.0	298	1.0	6	●	2	

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0580S-DIN	5.8	3	66.1	19.4	28.1	29.1	65	1.1	6	□	4
MPS1-0580S-DIN-C		3	66.1	19.4	28.1	29.1	65	1.1	6	●	2
MPS1-0580L-DIN		5	82.1	35.4	44.1	45.1	81	1.1	6	□	4
MPS1-0580L-DIN-C		5	82.1	35.4	44.1	45.1	81	1.1	6	●	2
MPS1-0580-PC		2	66.9	12.5	28.9	28.9	66	0.9	6	●	2
MPS1-0580-L8C		8	107.2	47.6	67.2	70.2	106	1.2	6	●	2
MPS1-0580-L10C		10	119.1	59.1	79.1	82.1	118	1.1	6	□	2
MPS1-0580-L12C		12	131.1	70.7	91.1	94.1	130	1.1	6	●	2
MPS1-0580-L15C		15	149.1	88.1	109.1	112.1	148	1.1	6	●	2
MPS1-0580-L20C		20	179.1	117.1	139.1	142.1	178	1.1	6	●	2
MPS1-0580-L25C		25	209.1	146.1	169.1	172.1	208	1.1	6	□	2
MPS1-0580-L30C		30	239.1	175.1	199.1	202.1	238	1.1	6	●	2
MPS1-0580-L35C		35	268.1	204.1	229.1	231.1	267	1.1	6	□	2
MPS1-0580-L40C		40	299.1	233.1	261.1	262.1	298	1.1	6	●	2
MPS1-0590S-DIN	5.9	3	66.1	19.2	28.1	29.1	65	1.1	6	□	4
MPS1-0590S-DIN-C		3	66.1	19.2	28.1	29.1	65	1.1	6	●	2
MPS1-0590L-DIN		5	82.1	35.2	44.1	45.1	81	1.1	6	□	4
MPS1-0590L-DIN-C		5	82.1	35.2	44.1	45.1	81	1.1	6	●	2
MPS1-0590-PC		2	66.9	12.7	28.9	28.9	66	0.9	6	●	2
MPS1-0590-L8C		8	107.2	48.4	67.2	70.2	106	1.2	6	●	2
MPS1-0590-L10C		10	119.1	60.1	79.1	82.1	118	1.1	6	□	2
MPS1-0590-L12C		12	131.1	71.9	91.1	94.1	130	1.1	6	●	2
MPS1-0590-L15C		15	149.1	89.6	109.1	112.1	148	1.1	6	●	2
MPS1-0590-L20C		20	179.1	119.1	139.1	142.1	178	1.1	6	●	2
MPS1-0590-L25C		25	209.1	148.6	169.1	172.1	208	1.1	6	●	2
MPS1-0590-L30C		30	239.1	178.1	199.1	202.1	238	1.1	6	□	2
MPS1-0590-L35C		35	268.1	207.6	229.1	231.1	267	1.1	6	□	2
MPS1-0590-L40C		40	299.1	237.1	261.1	262.1	298	1.1	6	●	2
MPS1-0600S-DIN	6.0	3	66.1	19.1	28.1	29.1	65	1.1	6	□	4
MPS1-0600S-DIN-C		3	66.1	19.1	28.1	29.1	65	1.1	6	●	2
MPS1-0600L-DIN		5	82.1	35.1	44.1	45.1	81	1.1	6	□	4
MPS1-0600L-DIN-C		5	82.1	35.1	44.1	45.1	81	1.1	6	●	2
MPS1-0600-PC		2	66.9	12.9	28.9	28.9	66	0.9	6	●	2
MPS1-0600-L8C		8	107.2	49.2	67.2	70.2	106	1.2	6	●	2
MPS1-0600-L10C		10	119.1	61.1	79.1	82.1	118	1.1	6	□	2
MPS1-0600-L12C		12	131.1	73.1	91.1	94.1	130	1.1	6	●	2
MPS1-0600-L15C		15	149.1	91.1	109.1	112.1	148	1.1	6	●	2
MPS1-0600-L20C		20	179.1	121.1	139.1	142.1	178	1.1	6	●	2
MPS1-0600-L25C		25	209.1	151.1	169.1	172.1	208	1.1	6	●	2
MPS1-0600-L30C		30	239.1	181.1	199.1	202.1	238	1.1	6	●	2
MPS1-0600-L35C		35	268.1	211.1	229.1	231.1	267	1.1	6	□	2
MPS1-0600-L40C		40	299.1	241.1	261.1	262.1	298	1.1	6	●	2
MPS1-0605S-DIN	6.05	3	79.1	25.0	34.1	42.1	78	1.1	8	□	4
MPS1-0605S-DIN-C		3	79.1	25.0	34.1	42.1	78	1.1	8	●	2
MPS1-0605L-DIN		5	91.1	44.0	53.1	54.1	90	1.1	8	□	4
MPS1-0605L-DIN-C		5	91.1	44.0	53.1	54.1	90	1.1	8	●	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0610S-DIN		3	79.1	25.0	34.1	42.1	78	1.1	8	□	4
MPS1-0610S-DIN-C		3	79.1	25.0	34.1	42.1	78	1.1	8	●	2
MPS1-0610L-DIN		5	91.1	44.0	53.1	54.1	90	1.1	8	□	4
MPS1-0610L-DIN-C		5	91.1	44.0	53.1	54.1	90	1.1	8	●	2
MPS1-0610-PC		2	75.0	13.2	32.0	35.0	74	1.0	8	●	2
MPS1-0610-L8C		8	113.3	50.1	73.3	76.3	112	1.3	8	●	2
MPS1-0610-L10C	6.1	10	126.1	62.1	86.1	89.1	125	1.1	8	□	2
MPS1-0610-L12C		12	139.1	74.3	99.1	102.1	138	1.1	8	●	2
MPS1-0610-L15C		15	158.1	92.6	118.1	121.1	157	1.1	8	●	2
MPS1-0610-L20C		20	191.1	123.1	151.1	154.1	190	1.1	8	●	2
MPS1-0610-L25C		25	223.1	153.6	183.1	186.1	222	1.1	8	●	2
MPS1-0610-L30C		30	256.1	184.1	216.1	219.1	255	1.1	8	●	2
MPS1-0610-L35C		35	287.1	214.6	241.1	250.1	286	1.1	8	□	2
MPS1-0610-L40C		40	321.1	245.1	271.1	284.1	320	1.1	8	●	2
MPS1-0620S-DIN		3	79.1	24.8	34.1	42.1	78	1.1	8	□	4
MPS1-0620S-DIN-C		3	79.1	24.8	34.1	42.1	78	1.1	8	●	2
MPS1-0620L-DIN		5	91.1	43.8	53.1	54.1	90	1.1	8	□	4
MPS1-0620L-DIN-C		5	91.1	43.8	53.1	54.1	90	1.1	8	●	2
MPS1-0620-PC		2	75.0	13.4	32.0	35.0	74	1.0	8	●	2
MPS1-0620-L8C		8	113.3	50.9	73.3	76.3	112	1.3	8	●	2
MPS1-0620-L10C	6.2	10	126.1	63.1	86.1	89.1	125	1.1	8	□	2
MPS1-0620-L12C		12	139.1	75.5	99.1	102.1	138	1.1	8	●	2
MPS1-0620-L15C		15	158.1	94.1	118.1	121.1	157	1.1	8	●	2
MPS1-0620-L20C		20	191.1	125.1	151.1	154.1	190	1.1	8	●	2
MPS1-0620-L25C		25	223.1	156.1	183.1	186.1	222	1.1	8	□	2
MPS1-0620-L30C		30	256.1	187.1	216.1	219.1	255	1.1	8	●	2
MPS1-0620-L35C		35	287.1	218.1	241.1	250.1	286	1.1	8	□	2
MPS1-0620-L40C		40	321.1	249.1	271.1	284.1	320	1.1	8	●	2
MPS1-0630S-DIN		3	79.1	24.7	34.1	42.1	78	1.1	8	□	4
MPS1-0630S-DIN-C		3	79.1	24.7	34.1	42.1	78	1.1	8	●	2
MPS1-0630L-DIN		5	91.1	43.7	53.1	54.1	90	1.1	8	□	4
MPS1-0630L-DIN-C		5	91.1	43.7	53.1	54.1	90	1.1	8	●	2
MPS1-0630-PC		2	75.0	13.6	32.0	35.0	74	1.0	8	●	2
MPS1-0630-L8C		8	113.3	51.7	73.3	76.3	112	1.3	8	●	2
MPS1-0630-L10C	6.3	10	126.1	64.1	86.1	89.1	125	1.1	8	□	2
MPS1-0630-L12C		12	139.1	76.7	99.1	102.1	138	1.1	8	●	2
MPS1-0630-L15C		15	158.1	95.6	118.1	121.1	157	1.1	8	●	2
MPS1-0630-L20C		20	191.1	127.1	151.1	154.1	190	1.1	8	●	2
MPS1-0630-L25C		25	223.1	158.6	183.1	186.1	222	1.1	8	□	2
MPS1-0630-L30C		30	256.1	190.1	216.1	219.1	255	1.1	8	●	2
MPS1-0630-L35C		35	287.1	221.6	248.1	250.1	286	1.1	8	□	2
MPS1-0630-L40C		40	321.1	253.1	281.1	284.1	320	1.1	8	●	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0640S-DIN	6.4	3	79.2	24.6	34.2	42.2	78	1.2	8	□	4
MPS1-0640S-DIN-C		3	79.2	24.6	34.2	42.2	78	1.2	8	●	2
MPS1-0640L-DIN		5	91.2	43.6	53.2	54.2	90	1.2	8	□	4
MPS1-0640L-DIN-C		5	91.2	43.6	53.2	54.2	90	1.2	8	●	2
MPS1-0640-PC		2	75.0	13.8	32.0	35.0	74	1.0	8	●	2
MPS1-0640-L8C		8	113.3	52.5	73.3	76.3	112	1.3	8	●	2
MPS1-0640-L10C		10	126.2	65.2	86.2	89.2	125	1.2	8	□	2
MPS1-0640-L12C		12	139.2	78.0	99.2	102.2	138	1.2	8	●	2
MPS1-0640-L15C		15	158.2	97.2	118.2	121.2	157	1.2	8	●	2
MPS1-0640-L20C		20	191.2	129.2	151.2	154.2	190	1.2	8	●	2
MPS1-0640-L25C		25	223.2	161.2	183.2	186.2	222	1.2	8	●	2
MPS1-0640-L30C		30	256.2	193.2	216.2	219.2	255	1.2	8	●	2
MPS1-0640-L35C		35	287.2	225.2	248.2	250.2	286	1.2	8	□	2
MPS1-0640-L40C		40	321.2	257.2	281.2	284.2	320	1.2	8	●	2
MPS1-0650S-DIN	6.5	3	79.2	24.4	34.2	42.2	78	1.2	8	□	4
MPS1-0650S-DIN-C		3	79.2	24.4	34.2	42.2	78	1.2	8	●	2
MPS1-0650L-DIN		5	91.2	43.4	53.2	54.2	90	1.2	8	□	4
MPS1-0650L-DIN-C		5	91.2	43.4	53.2	54.2	90	1.2	8	●	2
MPS1-0650-PC		2	75.0	14.0	32.0	35.0	74	1.0	8	●	2
MPS1-0650-L8C		8	113.3	53.3	73.3	76.3	112	1.3	8	●	2
MPS1-0650-L10C		10	126.2	66.2	86.2	89.2	125	1.2	8	□	2
MPS1-0650-L12C		12	139.2	79.2	99.2	102.2	138	1.2	8	●	2
MPS1-0650-L15C		15	158.2	98.7	118.2	121.2	157	1.2	8	●	2
MPS1-0650-L20C		20	191.2	131.2	151.2	154.2	190	1.2	8	●	2
MPS1-0650-L25C		25	223.2	163.7	183.2	186.2	222	1.2	8	●	2
MPS1-0650-L30C		30	256.2	196.2	216.2	219.2	255	1.2	8	●	2
MPS1-0650-L35C		35	287.2	228.7	248.2	250.2	286	1.2	8	□	2
MPS1-0650-L40C		40	321.2	261.2	281.2	284.2	320	1.2	8	●	2
MPS1-0660S-DIN	6.6	3	79.2	24.3	34.2	42.2	78	1.2	8	□	4
MPS1-0660S-DIN-C		3	79.2	24.3	34.2	42.2	78	1.2	8	●	2
MPS1-0660L-DIN		5	91.2	43.3	53.2	54.2	90	1.2	8	□	4
MPS1-0660L-DIN-C		5	91.2	43.3	53.2	54.2	90	1.2	8	●	2
MPS1-0660-PC		2	75.0	14.2	35.0	37.0	74	1.0	8	●	2
MPS1-0660-L8C		8	118.4	54.2	78.4	81.4	117	1.4	8	●	2
MPS1-0660-L10C		10	132.2	67.2	92.2	95.2	131	1.2	8	□	2
MPS1-0660-L12C		12	146.2	80.4	106.2	109.2	145	1.2	8	●	2
MPS1-0660-L15C		15	167.2	100.2	127.2	130.2	166	1.2	8	●	2
MPS1-0660-L20C		20	202.2	133.2	162.2	165.2	201	1.2	8	□	2
MPS1-0660-L25C		25	237.2	166.2	197.2	200.2	236	1.2	8	●	2
MPS1-0660-L30C		30	272.2	199.2	232.2	235.2	271	1.2	8	●	2
MPS1-0660-L35C		35	306.2	232.2	267.2	269.2	305	1.2	8	□	2
MPS1-0660-L40C		40	341.2	265.2	301.2	304.2	340	1.2	8	●	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0670S-DIN		3	79.2	24.2	34.2	42.2	78	1.2	8	□	4
MPS1-0670S-DIN-C		3	79.2	24.2	34.2	42.2	78	1.2	8	●	2
MPS1-0670L-DIN		5	91.2	43.2	53.2	54.2	90	1.2	8	□	4
MPS1-0670L-DIN-C		5	91.2	43.2	53.2	54.2	90	1.2	8	●	2
MPS1-0670-PC		2	75.1	14.5	35.1	37.1	74	1.1	8	●	2
MPS1-0670-L8C		8	118.4	55.0	78.4	81.4	117	1.4	8	●	2
MPS1-0670-L10C	6.7	10	132.2	68.2	92.2	95.2	131	1.2	8	□	2
MPS1-0670-L12C		12	146.2	81.6	106.2	109.2	145	1.2	8	●	2
MPS1-0670-L15C		15	167.2	101.7	127.2	130.2	166	1.2	8	●	2
MPS1-0670-L20C		20	202.2	135.2	162.2	165.2	201	1.2	8	□	2
MPS1-0670-L25C		25	237.2	168.7	197.2	200.2	236	1.2	8	□	2
MPS1-0670-L30C		30	272.2	202.2	232.2	235.2	271	1.2	8	●	2
MPS1-0670-L35C		35	306.2	235.7	267.2	269.2	305	1.2	8	□	2
MPS1-0670-L40C		40	341.2	269.2	301.2	304.2	340	1.2	8	□	2
MPS1-0680S-DIN		3	79.2	24.0	34.2	42.2	78	1.2	8	●	4
MPS1-0680S-DIN-C		3	79.2	24.0	34.2	42.2	78	1.2	8	●	2
MPS1-0680L-DIN		5	91.2	43.0	53.2	54.2	90	1.2	8	□	4
MPS1-0680L-DIN-C		5	91.2	43.0	53.2	54.2	90	1.2	8	●	2
MPS1-0680-PC		2	75.1	14.7	35.1	37.1	74	1.1	8	●	2
MPS1-0680-L8C		8	118.4	55.8	78.4	81.4	117	1.4	8	●	2
MPS1-0680-L10C	6.8	10	132.2	69.2	92.2	95.2	131	1.2	8	□	2
MPS1-0680-L12C		12	146.2	82.8	106.2	109.2	145	1.2	8	●	2
MPS1-0680-L15C		15	167.2	103.2	127.2	130.2	166	1.2	8	●	2
MPS1-0680-L20C		20	202.2	137.2	162.2	165.2	201	1.2	8	●	2
MPS1-0680-L25C		25	237.2	171.2	197.2	200.2	236	1.2	8	●	2
MPS1-0680-L30C		30	272.2	205.2	232.2	235.2	271	1.2	8	●	2
MPS1-0680-L35C		35	306.2	239.2	267.2	269.2	305	1.2	8	□	2
MPS1-0680-L40C		40	341.2	273.2	301.2	304.2	340	1.2	8	●	2
MPS1-0690S-DIN		3	79.3	23.9	34.3	42.3	78	1.3	8	□	4
MPS1-0690S-DIN-C		3	79.3	23.9	34.3	42.3	78	1.3	8	●	2
MPS1-0690L-DIN		5	91.3	42.9	53.3	54.3	90	1.3	8	□	4
MPS1-0690L-DIN-C		5	91.3	42.9	53.3	54.3	90	1.3	8	●	2
MPS1-0690-PC		2	75.1	14.9	35.1	37.1	74	1.1	8	●	2
MPS1-0690-L8C		8	118.4	56.6	78.4	81.4	117	1.4	8	●	2
MPS1-0690-L10C	6.9	10	132.3	70.3	92.3	95.3	131	1.3	8	□	2
MPS1-0690-L12C		12	146.3	84.1	106.3	109.3	145	1.3	8	●	2
MPS1-0690-L15C		15	167.3	104.8	127.3	130.3	166	1.3	8	●	2
MPS1-0690-L20C		20	202.3	139.3	162.3	165.3	201	1.3	8	●	2
MPS1-0690-L25C		25	237.3	173.8	197.3	200.3	236	1.3	8	●	2
MPS1-0690-L30C		30	272.3	208.3	232.3	235.3	271	1.3	8	●	2
MPS1-0690-L35C		35	306.3	242.8	267.3	269.3	305	1.3	8	□	2
MPS1-0690-L40C		40	341.3	277.3	301.3	304.3	340	1.3	8	●	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0700S-DIN	7.0	3	79.3	23.8	34.3	42.3	78	1.3	8	□	4
MPS1-0700S-DIN-C		3	79.3	23.8	34.3	42.3	78	1.3	8	●	2
MPS1-0700L-DIN		5	91.3	42.8	53.3	54.3	90	1.3	8	□	4
MPS1-0700L-DIN-C		5	91.3	42.8	53.3	54.3	90	1.3	8	●	2
MPS1-0700-PC		2	75.1	15.1	35.1	37.1	74	1.1	8	●	2
MPS1-0700-L8C		8	118.4	57.4	78.4	81.4	117	1.4	8	●	2
MPS1-0700-L10C		10	132.3	71.3	92.3	95.3	131	1.3	8	●	2
MPS1-0700-L12C		12	146.3	85.3	106.3	109.3	145	1.3	8	●	2
MPS1-0700-L15C		15	167.3	106.3	127.3	130.3	166	1.3	8	●	2
MPS1-0700-L20C		20	202.3	141.3	162.3	165.3	201	1.3	8	●	2
MPS1-0700-L25C		25	237.3	176.3	197.3	200.3	236	1.3	8	●	2
MPS1-0700-L30C		30	272.3	211.3	232.3	235.3	271	1.3	8	●	2
MPS1-0700-L35C		35	306.3	246.3	267.3	269.3	305	1.3	8	□	2
MPS1-0700-L40C		40	341.3	281.3	301.3	304.3	340	1.3	8	●	2
MPS1-0710S-DIN	7.1	3	79.3	30.6	41.3	42.3	78	1.3	8	□	4
MPS1-0710S-DIN-C		3	79.3	30.6	41.3	42.3	78	1.3	8	●	2
MPS1-0710L-DIN		5	91.3	42.6	53.3	54.3	90	1.3	8	□	4
MPS1-0710L-DIN-C		5	91.3	42.6	53.3	54.3	90	1.3	8	●	2
MPS1-0710-PC		2	80.1	15.3	35.1	38.1	79	1.1	8	●	2
MPS1-0710-L8C		8	124.5	58.3	84.5	87.5	123	1.5	8	●	2
MPS1-0710-L10C		10	139.3	72.3	99.3	102.3	138	1.3	8	□	2
MPS1-0710-L12C		12	154.3	86.5	114.3	117.3	153	1.3	8	●	2
MPS1-0710-L15C		15	176.3	107.8	136.3	139.3	175	1.3	8	●	2
MPS1-0710-L20C		20	214.3	143.3	174.3	177.3	213	1.3	8	●	2
MPS1-0710-L25C		25	251.3	178.8	211.3	214.3	250	1.3	8	●	2
MPS1-0710-L30C		30	289.3	214.3	249.3	252.3	288	1.3	8	●	2
MPS1-0710-L35C		35	325.3	249.8	286.3	288.3	324	1.3	8	□	2
MPS1-0710-L40C		40	360.3	285.3	321.3	323.3	359	1.3	8	●	2
MPS1-0720S-DIN	7.2	3	79.3	30.5	41.3	42.3	78	1.3	8	□	4
MPS1-0720S-DIN-C		3	79.3	30.5	41.3	42.3	78	1.3	8	●	2
MPS1-0720L-DIN		5	91.3	42.5	53.3	54.3	90	1.3	8	□	4
MPS1-0720L-DIN-C		5	91.3	42.5	53.3	54.3	90	1.3	8	●	2
MPS1-0720-PC		2	80.1	15.5	35.1	38.1	79	1.1	8	●	2
MPS1-0720-L8C		8	124.5	59.1	84.5	87.5	123	1.5	8	●	2
MPS1-0720-L10C		10	139.3	73.3	99.3	102.3	138	1.3	8	□	2
MPS1-0720-L12C		12	154.3	87.7	114.3	117.3	153	1.3	8	●	2
MPS1-0720-L15C		15	176.3	109.3	136.3	139.3	175	1.3	8	□	2
MPS1-0720-L20C		20	214.3	145.3	174.3	177.3	213	1.3	8	□	2
MPS1-0720-L25C		25	251.3	181.3	211.3	214.3	250	1.3	8	□	2
MPS1-0720-L30C		30	289.3	217.3	249.3	252.3	288	1.3	8	□	2
MPS1-0720-L35C		35	325.3	253.3	286.3	288.3	324	1.3	8	□	2
MPS1-0720-L40C		40	360.3	289.3	321.3	323.3	359	1.3	8	●	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0730S-DIN	7.3	3	79.3	30.4	41.3	42.3	78	1.3	8	□	4
MPS1-0730S-DIN-C		3	79.3	30.4	41.3	42.3	78	1.3	8	●	2
MPS1-0730L-DIN		5	91.3	42.4	53.3	54.3	90	1.3	8	□	4
MPS1-0730L-DIN-C		5	91.3	42.4	53.3	54.3	90	1.3	8	●	2
MPS1-0730-PC		2	80.2	15.8	35.2	38.2	79	1.2	8	●	2
MPS1-0730-L8C		8	124.5	59.9	84.5	87.5	123	1.5	8	●	2
MPS1-0730-L10C		10	139.3	74.3	99.3	102.3	138	1.3	8	□	2
MPS1-0730-L12C		12	154.3	88.9	114.3	117.3	153	1.3	8	●	2
MPS1-0730-L15C		15	176.3	110.8	136.3	139.3	175	1.3	8	□	2
MPS1-0730-L20C		20	214.3	147.3	174.3	177.3	213	1.3	8	□	2
MPS1-0730-L25C		25	251.3	183.8	211.3	214.3	250	1.3	8	□	2
MPS1-0730-L30C		30	289.3	220.3	249.3	252.3	288	1.3	8	□	2
MPS1-0730-L35C		35	325.3	256.8	286.3	288.3	324	1.3	8	□	2
MPS1-0730-L40C		40	360.3	293.3	321.3	323.3	359	1.3	8	●	2
MPS1-0740S-DIN	7.4	3	79.3	30.2	41.3	42.3	78	1.3	8	□	4
MPS1-0740S-DIN-C		3	79.3	30.2	41.3	42.3	78	1.3	8	●	2
MPS1-0740L-DIN		5	91.3	42.2	53.3	54.3	90	1.3	8	□	4
MPS1-0740L-DIN-C		5	91.3	42.2	53.3	54.3	90	1.3	8	●	2
MPS1-0740-PC		2	80.2	16.0	35.2	38.2	79	1.2	8	●	2
MPS1-0740-L8C		8	124.5	60.7	84.5	87.5	123	1.5	8	●	2
MPS1-0740-L10C		10	139.3	75.3	99.3	102.3	138	1.3	8	□	2
MPS1-0740-L12C		12	154.3	90.1	114.3	117.3	153	1.3	8	●	2
MPS1-0740-L15C		15	176.3	112.3	136.3	139.3	175	1.3	8	□	2
MPS1-0740-L20C		20	214.3	149.3	174.3	177.3	213	1.3	8	□	2
MPS1-0740-L25C		25	251.3	186.3	211.3	214.3	250	1.3	8	□	2
MPS1-0740-L30C		30	289.3	223.3	249.3	252.3	288	1.3	8	□	2
MPS1-0740-L35C		35	325.3	260.3	286.3	288.3	324	1.3	8	□	2
MPS1-0740-L40C		40	360.3	297.3	321.3	323.3	359	1.3	8	●	2
MPS1-0750S-DIN	7.5	3	79.4	30.1	41.4	42.4	78	1.4	8	□	4
MPS1-0750S-DIN-C		3	79.4	30.1	41.4	42.4	78	1.4	8	●	2
MPS1-0750L-DIN		5	91.4	42.1	53.4	54.4	90	1.4	8	□	4
MPS1-0750L-DIN-C		5	91.4	42.1	53.4	54.4	90	1.4	8	●	2
MPS1-0750-PC		2	80.2	16.2	35.2	38.2	79	1.2	8	●	2
MPS1-0750-L8C		8	124.6	61.6	84.6	87.6	123	1.6	8	●	2
MPS1-0750-L10C		10	139.4	76.4	99.4	102.4	138	1.4	8	□	2
MPS1-0750-L12C		12	154.4	91.4	114.4	117.4	153	1.4	8	●	2
MPS1-0750-L15C		15	176.4	113.9	136.4	139.4	175	1.4	8	●	2
MPS1-0750-L20C		20	214.4	151.4	174.4	177.4	213	1.4	8	●	2
MPS1-0750-L25C		25	251.4	188.9	211.4	214.4	250	1.4	8	●	2
MPS1-0750-L30C		30	289.4	226.4	249.4	252.4	288	1.4	8	●	2
MPS1-0750-L35C		35	325.4	263.9	286.4	288.4	324	1.4	8	□	2
MPS1-0750-L40C		40	360.4	301.4	321.4	323.4	359	1.4	8	●	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0760S-DIN		3	79.4	30.0	41.4	42.4	78	1.4	8	□	4
MPS1-0760S-DIN-C		3	79.4	30.0	41.4	42.4	78	1.4	8	●	2
MPS1-0760L-DIN		5	91.4	42.0	53.4	54.4	90	1.4	8	□	4
MPS1-0760L-DIN-C		5	91.4	42.0	53.4	54.4	90	1.4	8	●	2
MPS1-0760-PC		2	80.2	16.4	38.2	38.2	79	1.2	8	●	2
MPS1-0760-L8C		8	129.6	62.4	89.6	92.6	128	1.6	8	●	2
MPS1-0760-L10C	7.6	10	145.4	77.4	105.4	108.4	144	1.4	8	□	2
MPS1-0760-L12C		12	161.4	92.6	121.4	124.4	160	1.4	8	●	2
MPS1-0760-L15C		15	185.4	115.4	145.4	148.4	184	1.4	8	●	2
MPS1-0760-L20C		20	225.4	153.4	185.4	188.4	224	1.4	8	□	2
MPS1-0760-L25C		25	265.4	191.4	225.4	228.4	264	1.4	8	●	2
MPS1-0760-L30C		30	305.4	229.4	265.4	268.4	304	1.4	8	□	2
MPS1-0760-L35C		35	344.4	267.4	305.4	307.4	343	1.4	8	□	2
MPS1-0760-L40C		40	379.4	305.4	341.4	342.4	378	1.4	8	●	2
MPS1-0770S-DIN		3	79.4	29.9	41.4	42.4	78	1.4	8	□	4
MPS1-0770S-DIN-C		3	79.4	29.9	41.4	42.4	78	1.4	8	●	2
MPS1-0770L-DIN		5	91.4	41.9	53.4	54.4	90	1.4	8	□	4
MPS1-0770L-DIN-C		5	91.4	41.9	53.4	54.4	90	1.4	8	●	2
MPS1-0770-PC		2	80.2	16.6	38.2	38.2	79	1.2	8	●	2
MPS1-0770-L8C		8	129.6	63.2	89.6	92.6	128	1.6	8	●	2
MPS1-0770-L10C	7.7	10	145.4	78.4	105.4	108.4	144	1.4	8	□	2
MPS1-0770-L12C		12	161.4	93.8	121.4	124.4	160	1.4	8	●	2
MPS1-0770-L15C		15	185.4	116.9	145.4	148.4	184	1.4	8	●	2
MPS1-0770-L20C		20	225.4	155.4	185.4	188.4	224	1.4	8	□	2
MPS1-0770-L25C		25	265.4	193.9	225.4	228.4	264	1.4	8	●	2
MPS1-0770-L30C		30	305.4	232.4	265.4	268.4	304	1.4	8	□	2
MPS1-0770-L35C		35	344.4	270.9	305.4	307.4	343	1.4	8	□	2
MPS1-0770-L40C		40	379.4	309.4	341.4	342.4	378	1.4	8	●	2
MPS1-0780S-DIN		3	79.4	29.7	41.4	42.4	78	1.4	8	□	4
MPS1-0780S-DIN-C		3	79.4	29.7	41.4	42.4	78	1.4	8	●	2
MPS1-0780L-DIN		5	91.4	41.7	53.4	54.4	90	1.4	8	□	4
MPS1-0780L-DIN-C		5	91.4	41.7	53.4	54.4	90	1.4	8	●	2
MPS1-0780-PC		2	80.2	16.8	38.2	38.2	79	1.2	8	●	2
MPS1-0780-L8C		8	129.6	64.0	89.6	92.6	128	1.6	8	●	2
MPS1-0780-L10C	7.8	10	145.4	79.4	105.4	108.4	144	1.4	8	□	2
MPS1-0780-L12C		12	161.4	95.0	121.4	124.4	160	1.4	8	●	2
MPS1-0780-L15C		15	185.4	118.4	145.4	148.4	184	1.4	8	●	2
MPS1-0780-L20C		20	225.4	157.4	185.4	188.4	224	1.4	8	□	2
MPS1-0780-L25C		25	265.4	196.4	225.4	228.4	264	1.4	8	□	2
MPS1-0780-L30C		30	305.4	235.4	265.4	268.4	304	1.4	8	●	2
MPS1-0780-L35C		35	344.4	274.4	305.4	307.4	343	1.4	8	□	2
MPS1-0780-L40C		40	379.4	313.4	341.4	342.4	378	1.4	8	●	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0790S-DIN	7.9	3	79.4	29.6	41.4	42.4	78	1.4	8	□	4
MPS1-0790S-DIN-C		3	79.4	29.6	41.4	42.4	78	1.4	8	●	2
MPS1-0790L-DIN		5	91.4	41.6	53.4	54.4	90	1.4	8	□	4
MPS1-0790L-DIN-C		5	91.4	41.6	53.4	54.4	90	1.4	8	●	2
MPS1-0790-PC		2	80.2	17.0	38.2	38.2	79	1.2	8	●	2
MPS1-0790-L8C		8	129.6	64.8	89.6	92.6	128	1.6	8	●	2
MPS1-0790-L10C		10	145.4	80.4	105.4	108.4	144	1.4	8	□	2
MPS1-0790-L12C		12	161.4	96.2	121.4	124.4	160	1.4	8	●	2
MPS1-0790-L15C		15	185.4	119.9	145.4	148.4	184	1.4	8	□	2
MPS1-0790-L20C		20	225.4	159.4	185.4	188.4	224	1.4	8	□	2
MPS1-0790-L25C		25	265.4	198.9	225.4	228.4	264	1.4	8	●	2
MPS1-0790-L30C		30	305.4	238.4	265.4	268.4	304	1.4	8	●	2
MPS1-0790-L35C		35	344.4	277.9	305.4	307.4	343	1.4	8	□	2
MPS1-0790-L40C		40	379.4	317.4	341.4	342.4	378	1.4	8	●	2
MPS1-0800S-DIN	8.0	3	79.5	29.5	41.5	42.5	78	1.5	8	□	4
MPS1-0800S-DIN-C		3	79.5	29.5	41.5	42.5	78	1.5	8	●	2
MPS1-0800L-DIN		5	91.5	41.5	53.5	54.5	90	1.5	8	□	4
MPS1-0800L-DIN-C		5	91.5	41.5	53.5	54.5	90	1.5	8	●	2
MPS1-0800-PC		2	80.3	17.3	38.3	38.3	79	1.3	8	●	2
MPS1-0800-L8C		8	129.7	65.7	89.7	92.7	128	1.7	8	●	2
MPS1-0800-L10C		10	145.5	81.5	105.5	108.5	144	1.5	8	●	2
MPS1-0800-L12C		12	161.5	97.5	121.5	124.5	160	1.5	8	●	2
MPS1-0800-L15C		15	185.5	121.5	145.5	148.5	184	1.5	8	●	2
MPS1-0800-L20C		20	225.5	161.5	185.5	188.5	224	1.5	8	●	2
MPS1-0800-L25C		25	265.5	201.5	225.5	228.5	264	1.5	8	●	2
MPS1-0800-L30C		30	305.5	241.5	265.5	268.5	304	1.5	8	●	2
MPS1-0800-L35C		35	344.5	281.5	305.5	307.5	343	1.5	8	□	2
MPS1-0800-L40C		40	379.5	321.5	341.5	342.5	378	1.5	8	●	2
MPS1-0805S-DIN	8.05	3	88.5	34.4	46.5	47.5	87	1.5	10	□	4
MPS1-0805S-DIN-C		3	88.5	34.4	46.5	47.5	87	1.5	10	●	2
MPS1-0805L-DIN		5	102.5	48.4	60.5	61.5	101	1.5	10	□	4
MPS1-0805L-DIN-C		5	102.5	48.4	60.5	61.5	101	1.5	10	●	2
MPS1-0810S-DIN	8.1	3	88.5	34.3	46.5	47.5	87	1.5	10	□	4
MPS1-0810S-DIN-C		3	88.5	34.3	46.5	47.5	87	1.5	10	●	2
MPS1-0810L-DIN		5	102.5	48.3	60.5	61.5	101	1.5	10	□	4
MPS1-0810L-DIN-C		5	102.5	48.3	60.5	61.5	101	1.5	10	●	2
MPS1-0810-PC		2	85.3	17.5	38.3	41.3	84	1.3	10	●	2
MPS1-0810-L8C		8	139.7	66.5	95.7	98.7	138	1.7	10	●	2
MPS1-0810-L10C		10	156.5	82.5	112.5	115.5	155	1.5	10	□	2
MPS1-0810-L12C		12	173.5	98.7	129.5	132.5	172	1.5	10	●	2
MPS1-0810-L15C		15	198.5	123.0	154.5	157.5	197	1.5	10	●	2
MPS1-0810-L20C		20	241.5	163.5	197.5	200.5	240	1.5	10	●	2
MPS1-0810-L25C		25	283.5	204.0	239.5	242.5	282	1.5	10	□	2
MPS1-0810-L30C		30	325.5	244.5	282.5	284.5	324	1.5	10	□	2
MPS1-0810-L35C		35	367.5	285.0	324.5	326.5	366	1.5	10	□	2
MPS1-0810-L40C		40	411.5	325.5	366.5	370.5	410	1.5	10	●	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0820S-DIN	8.2	3	88.5	34.2	46.5	47.5	87	1.5	10	□	4
MPS1-0820S-DIN-C		3	88.5	34.2	46.5	47.5	87	1.5	10	●	2
MPS1-0820L-DIN		5	102.5	48.2	60.5	61.5	101	1.5	10	□	4
MPS1-0820L-DIN-C		5	102.5	48.2	60.5	61.5	101	1.5	10	●	2
MPS1-0820-PC		2	85.3	17.7	38.3	41.3	84	1.3	10	●	2
MPS1-0820-L8C		8	139.7	67.3	95.7	98.7	138	1.7	10	●	2
MPS1-0820-L10C		10	156.5	83.5	112.5	115.5	155	1.5	10	□	2
MPS1-0820-L12C		12	173.5	99.9	129.5	132.5	172	1.5	10	●	2
MPS1-0820-L15C		15	198.5	124.5	154.5	157.5	197	1.5	10	●	2
MPS1-0820-L20C		20	241.5	165.5	197.5	200.5	240	1.5	10	●	2
MPS1-0820-L25C		25	283.5	206.5	239.5	242.5	282	1.5	10	□	2
MPS1-0820-L30C		30	325.5	247.5	282.5	284.5	324	1.5	10	□	2
MPS1-0820-L35C		35	367.5	288.5	324.5	326.5	366	1.5	10	□	2
MPS1-0820-L40C		40	411.5	329.5	366.5	370.5	410	1.5	10	●	2
MPS1-0830S-DIN	8.3	3	88.5	34.1	46.5	47.5	87	1.5	10	□	4
MPS1-0830S-DIN-C		3	88.5	34.1	46.5	47.5	87	1.5	10	●	2
MPS1-0830L-DIN		5	102.5	48.1	60.5	61.5	101	1.5	10	□	4
MPS1-0830L-DIN-C		5	102.5	48.1	60.5	61.5	101	1.5	10	●	2
MPS1-0830-PC		2	85.3	17.9	38.3	41.3	84	1.3	10	●	2
MPS1-0830-L8C		8	139.7	68.1	95.7	98.7	138	1.7	10	●	2
MPS1-0830-L10C		10	156.5	84.5	112.5	115.5	155	1.5	10	□	2
MPS1-0830-L12C		12	173.5	101.1	129.5	132.5	172	1.5	10	●	2
MPS1-0830-L15C		15	198.5	126.0	154.5	157.5	197	1.5	10	□	2
MPS1-0830-L20C		20	241.5	167.5	197.5	200.5	240	1.5	10	□	2
MPS1-0830-L25C		25	283.5	209.0	239.5	242.5	282	1.5	10	□	2
MPS1-0830-L30C		30	325.5	250.5	282.5	284.5	324	1.5	10	□	2
MPS1-0830-L35C		35	367.5	292.0	324.5	326.5	366	1.5	10	□	2
MPS1-0830-L40C		40	411.5	333.5	366.5	370.5	410	1.5	10	●	2
MPS1-0840S-DIN	8.4	3	88.5	33.9	46.5	47.5	87	1.5	10	□	4
MPS1-0840S-DIN-C		3	88.5	33.9	46.5	47.5	87	1.5	10	●	2
MPS1-0840L-DIN		5	102.5	47.9	60.5	61.5	101	1.5	10	□	4
MPS1-0840L-DIN-C		5	102.5	47.9	60.5	61.5	101	1.5	10	●	2
MPS1-0840-PC		2	85.3	18.1	38.3	41.3	84	1.3	10	●	2
MPS1-0840-L8C		8	139.7	68.9	95.7	98.7	138	1.7	10	●	2
MPS1-0840-L10C		10	156.5	85.5	112.5	115.5	155	1.5	10	□	2
MPS1-0840-L12C		12	173.5	102.3	129.5	132.5	172	1.5	10	●	2
MPS1-0840-L15C		15	198.5	127.5	154.5	157.5	197	1.5	10	●	2
MPS1-0840-L20C		20	241.5	169.5	197.5	200.5	240	1.5	10	□	2
MPS1-0840-L25C		25	283.5	211.5	239.5	242.5	282	1.5	10	□	2
MPS1-0840-L30C		30	325.5	253.5	282.5	284.5	324	1.5	10	□	2
MPS1-0840-L35C		35	367.5	295.5	324.5	326.5	366	1.5	10	□	2
MPS1-0840-L40C		40	411.5	337.5	366.5	370.5	410	1.5	10	●	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0850S-DIN	8.5	3	88.5	33.8	46.5	47.5	87	1.5	10	□	4
MPS1-0850S-DIN-C		3	88.5	33.8	46.5	47.5	87	1.5	10	●	2
MPS1-0850L-DIN		5	102.5	47.8	60.5	61.5	101	1.5	10	□	4
MPS1-0850L-DIN-C		5	102.5	47.8	60.5	61.5	101	1.5	10	●	2
MPS1-0850-PC		2	85.3	18.3	38.3	41.3	84	1.3	10	●	2
MPS1-0850-L8C		8	139.8	69.8	95.8	98.8	138	1.8	10	●	2
MPS1-0850-L10C		10	156.5	86.5	112.5	115.5	155	1.5	10	□	2
MPS1-0850-L12C		12	173.5	103.5	129.5	132.5	172	1.5	10	●	2
MPS1-0850-L15C		15	198.5	129.0	154.5	157.5	197	1.5	10	●	2
MPS1-0850-L20C		20	241.5	171.5	197.5	200.5	240	1.5	10	●	2
MPS1-0850-L25C		25	283.5	214.0	239.5	242.5	282	1.5	10	●	2
MPS1-0850-L30C		30	325.5	256.5	282.5	284.5	324	1.5	10	●	2
MPS1-0850-L35C		35	367.5	299.0	324.5	326.5	366	1.5	10	□	2
MPS1-0850-L40C		40	411.5	341.5	366.5	370.5	410	1.5	10	●	2
MPS1-0860S-DIN	8.6	3	88.6	33.7	46.6	47.6	87	1.6	10	□	4
MPS1-0860S-DIN-C		3	88.6	33.7	46.6	47.6	87	1.6	10	●	2
MPS1-0860L-DIN		5	102.6	47.7	60.6	61.6	101	1.6	10	□	4
MPS1-0860L-DIN-C		5	102.6	47.7	60.6	61.6	101	1.6	10	●	2
MPS1-0860-PC		2	85.4	18.6	41.4	43.4	84	1.4	10	●	2
MPS1-0860-L8C		8	144.8	70.6	100.8	103.8	143	1.8	10	●	2
MPS1-0860-L10C		10	162.6	87.6	118.6	121.6	161	1.6	10	□	2
MPS1-0860-L12C		12	180.6	104.8	136.6	139.6	179	1.6	10	●	2
MPS1-0860-L15C		15	207.6	130.6	163.6	166.6	206	1.6	10	●	2
MPS1-0860-L20C		20	252.6	173.6	208.6	211.6	251	1.6	10	□	2
MPS1-0860-L25C		25	297.6	216.6	253.6	256.6	296	1.6	10	●	2
MPS1-0860-L30C		30	341.6	259.6	298.6	300.6	340	1.6	10	●	2
MPS1-0860-L35C		35	386.6	302.6	343.6	345.6	385	1.6	10	□	2
MPS1-0860-L40C		40	435.6	345.6	391.6	394.6	434	1.6	10	●	2
MPS1-0870S-DIN	8.7	3	88.6	33.5	46.6	47.6	87	1.6	10	□	4
MPS1-0870S-DIN-C		3	88.6	33.5	46.6	47.6	87	1.6	10	●	2
MPS1-0870L-DIN		5	102.6	47.5	60.6	61.6	101	1.6	10	□	4
MPS1-0870L-DIN-C		5	102.6	47.5	60.6	61.6	101	1.6	10	●	2
MPS1-0870-PC		2	85.4	18.8	41.4	43.4	84	1.4	10	●	2
MPS1-0870-L8C		8	144.8	71.4	100.8	103.8	143	1.8	10	●	2
MPS1-0870-L10C		10	162.6	88.6	118.6	121.6	161	1.6	10	□	2
MPS1-0870-L12C		12	180.6	106.0	136.6	139.6	179	1.6	10	●	2
MPS1-0870-L15C		15	207.6	132.1	163.6	166.6	206	1.6	10	●	2
MPS1-0870-L20C		20	252.6	175.6	208.6	211.6	251	1.6	10	□	2
MPS1-0870-L25C		25	297.6	219.1	253.6	256.6	296	1.6	10	●	2
MPS1-0870-L30C		30	341.6	262.6	298.6	300.6	340	1.6	10	□	2
MPS1-0870-L35C		35	386.6	306.1	343.6	345.6	385	1.6	10	□	2
MPS1-0870-L40C		40	435.6	349.6	391.6	394.6	434	1.6	10	●	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0880S-DIN	8.8	3	88.6	33.4	46.6	47.6	87	1.6	10	□	4
MPS1-0880S-DIN-C		3	88.6	33.4	46.6	47.6	87	1.6	10	●	2
MPS1-0880L-DIN		5	102.6	47.4	60.6	61.6	101	1.6	10	□	4
MPS1-0880L-DIN-C		5	102.6	47.4	60.6	61.6	101	1.6	10	●	2
MPS1-0880-PC		2	85.4	19.0	41.4	43.4	84	1.4	10	●	2
MPS1-0880-L8C		8	144.8	72.2	100.8	103.8	143	1.8	10	●	2
MPS1-0880-L10C		10	162.6	89.6	118.6	121.6	161	1.6	10	□	2
MPS1-0880-L12C		12	180.6	107.2	136.6	139.6	179	1.6	10	●	2
MPS1-0880-L15C		15	207.6	133.6	163.6	166.6	206	1.6	10	●	2
MPS1-0880-L20C		20	252.6	177.6	208.6	211.6	251	1.6	10	●	2
MPS1-0880-L25C		25	297.6	221.6	253.6	256.6	296	1.6	10	●	2
MPS1-0880-L30C		30	341.6	265.6	298.6	300.6	340	1.6	10	●	2
MPS1-0880-L35C		35	386.6	309.6	343.6	345.6	385	1.6	10	□	2
MPS1-0880-L40C		40	435.6	353.6	391.6	394.6	434	1.6	10	●	2
MPS1-0890S-DIN	8.9	3	88.6	33.3	46.6	47.6	87	1.6	10	□	4
MPS1-0890S-DIN-C		3	88.6	33.3	46.6	47.6	87	1.6	10	●	2
MPS1-0890L-DIN		5	102.6	47.3	60.6	61.6	101	1.6	10	□	4
MPS1-0890L-DIN-C		5	102.6	47.3	60.6	61.6	101	1.6	10	●	2
MPS1-0890-PC		2	85.4	19.2	41.4	43.4	84	1.4	10	●	2
MPS1-0890-L8C		8	144.8	73.0	100.8	103.8	143	1.8	10	●	2
MPS1-0890-L10C		10	162.6	90.6	118.6	121.6	161	1.6	10	□	2
MPS1-0890-L12C		12	180.6	108.4	136.6	139.6	179	1.6	10	●	2
MPS1-0890-L15C		15	207.6	135.1	163.6	166.6	206	1.6	10	□	2
MPS1-0890-L20C		20	252.6	179.6	208.6	211.6	251	1.6	10	□	2
MPS1-0890-L25C		25	297.6	224.1	253.6	256.6	296	1.6	10	□	2
MPS1-0890-L30C		30	341.6	268.6	298.6	300.6	340	1.6	10	□	2
MPS1-0890-L35C		35	386.6	313.1	343.6	345.6	385	1.6	10	□	2
MPS1-0890-L40C		40	435.6	357.6	391.6	394.6	434	1.6	10	●	2
MPS1-0900S-DIN	9.0	3	88.6	33.1	46.6	47.6	87	1.6	10	□	4
MPS1-0900S-DIN-C		3	88.6	33.1	46.6	47.6	87	1.6	10	●	2
MPS1-0900L-DIN		5	102.6	47.1	60.6	61.6	101	1.6	10	□	4
MPS1-0900L-DIN-C		5	102.6	47.1	60.6	61.6	101	1.6	10	●	2
MPS1-0900-PC		2	85.4	19.4	41.4	43.4	84	1.4	10	●	2
MPS1-0900-L8C		8	144.9	73.9	100.9	103.9	143	1.9	10	●	2
MPS1-0900-L10C		10	162.6	91.6	118.6	121.6	161	1.6	10	●	2
MPS1-0900-L12C		12	180.6	109.6	136.6	139.6	179	1.6	10	●	2
MPS1-0900-L15C		15	207.6	136.6	163.6	166.6	206	1.6	10	●	2
MPS1-0900-L20C		20	252.6	181.6	208.6	211.6	251	1.6	10	●	2
MPS1-0900-L25C		25	297.6	226.6	253.6	256.6	296	1.6	10	●	2
MPS1-0900-L30C		30	341.6	271.6	298.6	300.6	340	1.6	10	●	2
MPS1-0900-L35C		35	386.6	316.6	343.6	345.6	385	1.6	10	□	2
MPS1-0900-L40C		40	435.6	361.6	391.6	394.6	434	1.6	10	●	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0910S-DIN		3	88.7	33.0	46.7	47.7	87	1.7	10	□	4
MPS1-0910S-DIN-C		3	88.7	33.0	46.7	47.7	87	1.7	10	●	2
MPS1-0910L-DIN		5	102.7	47.0	60.7	61.7	101	1.7	10	□	4
MPS1-0910L-DIN-C		5	102.7	47.0	60.7	61.7	101	1.7	10	●	2
MPS1-0910-PC		2	90.4	19.6	41.4	44.4	89	1.4	10	●	2
MPS1-0910-L8C		8	150.9	74.7	106.9	109.9	149	1.9	10	●	2
MPS1-0910-L10C	9.1	10	169.7	92.7	125.7	128.7	168	1.7	10	□	2
MPS1-0910-L12C		12	188.7	110.9	144.7	147.7	187	1.7	10	●	2
MPS1-0910-L15C		15	216.7	138.2	172.7	175.7	215	1.7	10	●	2
MPS1-0910-L20C		20	264.7	183.7	220.7	223.7	263	1.7	10	□	2
MPS1-0910-L25C		25	311.7	229.2	267.7	270.7	310	1.7	10	□	2
MPS1-0910-L30C		30	359.7	274.7	315.7	318.7	358	1.7	10	●	2
MPS1-0910-L35C		35	405.7	320.2	362.7	364.7	404	1.7	10	□	2
MPS1-0920S-DIN		3	88.7	32.9	46.7	47.7	87	1.7	10	□	4
MPS1-0920S-DIN-C		3	88.7	32.9	46.7	47.7	87	1.7	10	●	2
MPS1-0920L-DIN		5	102.7	46.9	60.7	61.7	101	1.7	10	□	4
MPS1-0920L-DIN-C		5	102.7	46.9	60.7	61.7	101	1.7	10	●	2
MPS1-0920-PC		2	90.5	19.9	41.5	44.5	89	1.5	10	●	2
MPS1-0920-L8C		8	150.9	75.5	106.9	109.9	149	1.9	10	●	2
MPS1-0920-L10C	9.2	10	169.7	93.7	125.7	128.7	168	1.7	10	□	2
MPS1-0920-L12C		12	188.7	112.1	144.7	147.7	187	1.7	10	●	2
MPS1-0920-L15C		15	216.7	139.7	172.7	175.7	215	1.7	10	●	2
MPS1-0920-L20C		20	264.7	185.7	220.7	223.7	263	1.7	10	□	2
MPS1-0920-L25C		25	311.7	231.7	267.7	270.7	310	1.7	10	□	2
MPS1-0920-L30C		30	359.7	277.7	315.7	318.7	358	1.7	10	□	2
MPS1-0920-L35C		35	405.7	323.7	362.7	364.7	404	1.7	10	□	2
MPS1-0930S-DIN		3	88.7	32.7	46.7	47.7	87	1.7	10	□	4
MPS1-0930S-DIN-C		3	88.7	32.7	46.7	47.7	87	1.7	10	●	2
MPS1-0930L-DIN		5	102.7	46.7	60.7	61.7	101	1.7	10	□	4
MPS1-0930L-DIN-C		5	102.7	46.7	60.7	61.7	101	1.7	10	●	2
MPS1-0930-PC		2	90.5	20.1	41.5	44.5	89	1.5	10	●	2
MPS1-0930-L8C		8	150.9	76.3	106.9	109.9	149	1.9	10	●	2
MPS1-0930-L10C	9.3	10	169.7	94.7	125.7	128.7	168	1.7	10	□	2
MPS1-0930-L12C		12	188.7	113.3	144.7	147.7	187	1.7	10	●	2
MPS1-0930-L15C		15	216.7	141.2	172.7	175.7	215	1.7	10	□	2
MPS1-0930-L20C		20	264.7	187.7	220.7	223.7	263	1.7	10	□	2
MPS1-0930-L25C		25	311.7	234.2	267.7	270.7	310	1.7	10	□	2
MPS1-0930-L30C		30	359.7	280.7	315.7	318.7	358	1.7	10	□	2
MPS1-0930-L35C		35	405.7	327.2	362.7	364.7	404	1.7	10	□	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0940S-DIN		3	88.7	32.6	46.7	47.7	87	1.7	10	□	4
MPS1-0940S-DIN-C		3	88.7	32.6	46.7	47.7	87	1.7	10	●	2
MPS1-0940L-DIN		5	102.7	46.6	60.7	61.7	101	1.7	10	□	4
MPS1-0940L-DIN-C		5	102.7	46.6	60.7	61.7	101	1.7	10	●	2
MPS1-0940-PC		2	90.5	20.3	41.5	44.5	89	1.5	10	●	2
MPS1-0940-L8C		8	150.9	77.1	106.9	109.9	149	1.9	10	●	2
MPS1-0940-L10C	9.4	10	169.7	95.7	125.7	128.7	168	1.7	10	□	2
MPS1-0940-L12C		12	188.7	114.5	144.7	147.7	187	1.7	10	●	2
MPS1-0940-L15C		15	216.7	142.7	172.7	175.7	215	1.7	10	□	2
MPS1-0940-L20C		20	264.7	189.7	220.7	223.7	263	1.7	10	□	2
MPS1-0940-L25C		25	311.7	236.7	267.7	270.7	310	1.7	10	□	2
MPS1-0940-L30C		30	359.7	283.7	315.7	318.7	358	1.7	10	□	2
MPS1-0940-L35C		35	405.7	330.7	362.7	364.7	404	1.7	10	□	2
MPS1-0950S-DIN		3	88.7	32.5	46.7	47.7	87	1.7	10	□	4
MPS1-0950S-DIN-C		3	88.7	32.5	46.7	47.7	87	1.7	10	●	2
MPS1-0950L-DIN		5	102.7	46.5	60.7	61.7	101	1.7	10	□	4
MPS1-0950L-DIN-C		5	102.7	46.5	60.7	61.7	101	1.7	10	●	2
MPS1-0950-PC		2	90.5	20.5	41.5	44.5	89	1.5	10	●	2
MPS1-0950-L8C		8	151.0	78.0	107.0	110.0	149	2.0	10	●	2
MPS1-0950-L10C	9.5	10	169.7	96.7	125.7	128.7	168	1.7	10	□	2
MPS1-0950-L12C		12	188.7	115.7	144.7	147.7	187	1.7	10	●	2
MPS1-0950-L15C		15	216.7	144.2	172.7	175.7	215	1.7	10	●	2
MPS1-0950-L20C		20	264.7	191.7	220.7	223.7	263	1.7	10	●	2
MPS1-0950-L25C		25	311.7	239.2	267.7	270.7	310	1.7	10	●	2
MPS1-0950-L30C		30	359.7	286.7	315.7	318.7	358	1.7	10	●	2
MPS1-0950-L35C		35	405.7	334.2	362.7	364.7	404	1.7	10	□	2
MPS1-0960S-DIN		3	88.7	32.3	46.7	47.7	87	1.7	10	□	4
MPS1-0960S-DIN-C		3	88.7	32.3	46.7	47.7	87	1.7	10	●	2
MPS1-0960L-DIN		5	102.7	46.3	60.7	61.7	101	1.7	10	□	4
MPS1-0960L-DIN-C		5	102.7	46.3	60.7	61.7	101	1.7	10	●	2
MPS1-0960-PC		2	90.5	20.7	44.5	44.5	89	1.5	10	●	2
MPS1-0960-L8C		8	156.0	78.8	112.0	115.0	154	2.0	10	●	2
MPS1-0960-L10C	9.6	10	175.7	97.7	131.7	134.7	174	1.7	10	□	2
MPS1-0960-L12C		12	195.7	116.9	151.7	154.7	194	1.7	10	●	2
MPS1-0960-L15C		15	225.7	145.7	181.7	184.7	224	1.7	10	●	2
MPS1-0960-L20C		20	275.7	193.7	231.7	234.7	274	1.7	10	□	2
MPS1-0960-L25C		25	325.7	241.7	281.7	284.7	324	1.7	10	□	2
MPS1-0960-L30C		30	375.7	289.7	331.7	334.7	374	1.7	10	□	2
MPS1-0960-L35C		35	424.7	337.7	381.7	383.7	423	1.7	10	□	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-0970S-DIN		3	88.8	32.2	46.8	47.8	87	1.8	10	□	4
MPS1-0970S-DIN-C		3	88.8	32.2	46.8	47.8	87	1.8	10	●	2
MPS1-0970L-DIN		5	102.8	46.2	60.8	61.8	101	1.8	10	□	4
MPS1-0970L-DIN-C		5	102.8	46.2	60.8	61.8	101	1.8	10	●	2
MPS1-0970-PC		2	90.5	20.9	44.5	44.5	89	1.5	10	●	2
MPS1-0970-L8C		8	156.0	79.6	112.0	115.0	154	2.0	10	●	2
MPS1-0970-L10C	9.7	10	175.8	98.8	131.8	134.8	174	1.8	10	□	2
MPS1-0970-L12C		12	195.8	118.2	151.8	154.8	194	1.8	10	●	2
MPS1-0970-L15C		15	225.8	147.3	181.8	184.8	224	1.8	10	●	2
MPS1-0970-L20C		20	275.8	195.8	231.8	234.8	274	1.8	10	□	2
MPS1-0970-L25C		25	325.8	244.3	281.8	284.8	324	1.8	10	□	2
MPS1-0970-L30C		30	375.8	292.8	331.8	334.8	374	1.8	10	□	2
MPS1-0970-L35C		35	424.8	341.3	381.8	383.8	423	1.8	10	□	2
MPS1-0980S-DIN		3	88.8	32.1	46.8	47.8	87	1.8	10	□	4
MPS1-0980S-DIN-C		3	88.8	32.1	46.8	47.8	87	1.8	10	●	2
MPS1-0980L-DIN		5	102.8	46.1	60.8	61.8	101	1.8	10	□	4
MPS1-0980L-DIN-C		5	102.8	46.1	60.8	61.8	101	1.8	10	●	2
MPS1-0980-PC		2	90.5	21.1	44.5	44.5	89	1.5	10	●	2
MPS1-0980-L8C		8	156.0	80.4	112.0	115.0	154	2.0	10	●	2
MPS1-0980-L10C	9.8	10	175.8	99.8	131.8	134.8	174	1.8	10	□	2
MPS1-0980-L12C		12	195.8	119.4	151.8	154.8	194	1.8	10	●	2
MPS1-0980-L15C		15	225.8	148.8	181.8	184.8	224	1.8	10	●	2
MPS1-0980-L20C		20	275.8	197.8	231.8	234.8	274	1.8	10	●	2
MPS1-0980-L25C		25	325.8	246.8	281.8	284.8	324	1.8	10	□	2
MPS1-0980-L30C		30	375.8	295.8	331.8	334.8	374	1.8	10	●	2
MPS1-0980-L35C		35	424.8	344.8	381.8	383.8	423	1.8	10	□	2
MPS1-0990S-DIN		3	88.8	32.0	46.8	47.8	87	1.8	10	□	4
MPS1-0990S-DIN-C		3	88.8	32.0	46.8	47.8	87	1.8	10	●	2
MPS1-0990L-DIN		5	102.8	46.0	60.8	61.8	101	1.8	10	□	4
MPS1-0990L-DIN-C		5	102.8	46.0	60.8	61.8	101	1.8	10	●	2
MPS1-0990-PC		2	90.6	21.4	44.6	44.6	89	1.6	10	●	2
MPS1-0990-L8C		8	156.1	81.3	112.1	115.1	154	2.1	10	●	2
MPS1-0990-L10C	9.9	10	175.8	100.8	131.8	134.8	174	1.8	10	□	2
MPS1-0990-L12C		12	195.8	120.6	151.8	154.8	194	1.8	10	●	2
MPS1-0990-L15C		15	225.8	150.3	181.8	184.8	224	1.8	10	●	2
MPS1-0990-L20C		20	275.8	199.8	231.8	234.8	274	1.8	10	□	2
MPS1-0990-L25C		25	325.8	249.3	281.8	284.8	324	1.8	10	□	2
MPS1-0990-L30C		30	375.8	298.8	331.8	334.8	374	1.8	10	□	2
MPS1-0990-L35C		35	424.8	348.3	381.8	383.8	423	1.8	10	□	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-1000S-DIN		3	88.8	31.8	46.8	47.8	87	1.8	10	□	4
MPS1-1000S-DIN-C		3	88.8	31.8	46.8	47.8	87	1.8	10	●	2
MPS1-1000L-DIN		5	102.8	45.8	60.8	61.8	101	1.8	10	□	4
MPS1-1000L-DIN-C		5	102.8	45.8	60.8	61.8	101	1.8	10	●	2
MPS1-1000-PC		2	90.6	21.6	44.6	44.6	89	1.6	10	●	2
MPS1-1000-L8C		8	156.1	82.1	112.1	115.1	154	2.1	10	●	2
MPS1-1000-L10C	10.0	10	175.8	101.8	131.8	134.8	174	1.8	10	□	2
MPS1-1000-L12C		12	195.8	121.8	151.8	154.8	194	1.8	10	●	2
MPS1-1000-L15C		15	225.8	151.8	181.8	184.8	224	1.8	10	●	2
MPS1-1000-L20C		20	275.8	201.8	231.8	234.8	274	1.8	10	●	2
MPS1-1000-L25C		25	325.8	251.8	281.8	284.8	324	1.8	10	●	2
MPS1-1000-L30C		30	375.8	301.8	331.8	334.8	374	1.8	10	●	2
MPS1-1000-L35C		35	424.8	351.8	381.8	383.8	423	1.8	10	□	2
MPS1-1005S-DIN		3	101.8	39.8	54.8	55.8	100	1.8	12	□	4
MPS1-1005S-DIN-C		3	101.8	39.8	54.8	55.8	100	1.8	12	●	2
MPS1-1005L-DIN	10.05	5	117.8	55.8	70.8	71.8	116	1.8	12	□	4
MPS1-1005L-DIN-C		5	117.8	55.8	70.8	71.8	116	1.8	12	●	2
MPS1-1010S-DIN		3	101.8	39.7	54.8	55.8	100	1.8	12	□	4
MPS1-1010S-DIN-C		3	101.8	39.7	54.8	55.8	100	1.8	12	●	2
MPS1-1010L-DIN		5	117.8	55.7	70.8	71.8	116	1.8	12	□	4
MPS1-1010L-DIN-C		5	117.8	55.7	70.8	71.8	116	1.8	12	●	2
MPS1-1010-PC		2	96.6	21.8	44.6	47.6	95	1.6	12	●	2
MPS1-1010-L8C	10.1	8	167.1	82.9	118.1	121.1	165	2.1	12	●	2
MPS1-1010-L10C		10	187.8	102.8	138.8	141.8	186	1.8	12	□	2
MPS1-1010-L12C		12	208.8	123.0	159.8	162.8	207	1.8	12	●	2
MPS1-1010-L15C		15	239.8	153.3	190.8	193.8	238	1.8	12	●	2
MPS1-1010-L20C		20	292.8	203.8	243.8	246.8	291	1.8	12	●	2
MPS1-1010-L25C		25	344.8	254.3	295.8	298.8	343	1.8	12	□	2
MPS1-1020S-DIN		3	101.9	39.6	54.9	55.9	100	1.9	12	□	4
MPS1-1020S-DIN-C		3	101.9	39.6	54.9	55.9	100	1.9	12	●	2
MPS1-1020L-DIN		5	117.9	55.6	70.9	71.9	116	1.9	12	□	4
MPS1-1020L-DIN-C		5	117.9	55.6	70.9	71.9	116	1.9	12	●	2
MPS1-1020-PC		2	96.6	22.0	44.6	47.6	95	1.6	12	●	2
MPS1-1020-L8C	10.2	8	167.1	83.7	118.1	121.1	165	2.1	12	●	2
MPS1-1020-L10C		10	187.9	103.9	138.9	141.9	186	1.9	12	□	2
MPS1-1020-L12C		12	208.9	124.3	159.9	162.9	207	1.9	12	●	2
MPS1-1020-L15C		15	239.9	154.9	190.9	193.9	238	1.9	12	●	2
MPS1-1020-L20C		20	292.9	205.9	243.9	246.9	291	1.9	12	●	2
MPS1-1020-L25C		25	344.9	256.9	295.9	298.9	343	1.9	12	□	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-1030S-DIN	10.3	3	101.9	39.4	54.9	55.9	100	1.9	12	☐	4
MPS1-1030S-DIN-C		3	101.9	39.4	54.9	55.9	100	1.9	12	●	2
MPS1-1030L-DIN		5	117.9	55.4	70.9	71.9	116	1.9	12	☐	4
MPS1-1030L-DIN-C		5	117.9	55.4	70.9	71.9	116	1.9	12	●	2
MPS1-1030-PC		2	96.6	22.2	44.6	47.6	95	1.6	12	●	2
MPS1-1030-L8C		8	167.1	84.5	118.1	121.1	165	2.1	12	●	2
MPS1-1030-L10C		10	187.9	104.9	138.9	141.9	186	1.9	12	☐	2
MPS1-1030-L12C		12	208.9	125.5	159.9	162.9	207	1.9	12	●	2
MPS1-1030-L15C		15	239.9	156.4	190.9	193.9	238	1.9	12	☐	2
MPS1-1030-L20C		20	292.9	207.9	243.9	246.9	291	1.9	12	☐	2
MPS1-1030-L25C		25	344.9	259.4	295.9	298.9	343	1.9	12	☐	2
MPS1-1040S-DIN		10.4	3	101.9	39.3	54.9	55.9	100	1.9	12	☐
MPS1-1040S-DIN-C	3		101.9	39.3	54.9	55.9	100	1.9	12	●	2
MPS1-1040L-DIN	5		117.9	55.3	70.9	71.9	116	1.9	12	☐	4
MPS1-1040L-DIN-C	5		117.9	55.3	70.9	71.9	116	1.9	12	●	2
MPS1-1040-PC	2		96.6	22.4	44.6	47.6	95	1.6	12	●	2
MPS1-1040-L8C	8		167.2	85.4	118.2	121.2	165	2.2	12	●	2
MPS1-1040-L10C	10		187.9	105.9	138.9	141.9	186	1.9	12	☐	2
MPS1-1040-L12C	12		208.9	126.7	159.9	162.9	207	1.9	12	●	2
MPS1-1040-L15C	15		239.9	157.9	190.9	193.9	238	1.9	12	☐	2
MPS1-1040-L20C	20		292.9	209.9	243.9	246.9	291	1.9	12	☐	2
MPS1-1040-L25C	25		344.9	261.9	295.9	298.9	343	1.9	12	☐	2
MPS1-1050S-DIN	10.5		3	101.9	39.2	54.9	55.9	100	1.9	12	☐
MPS1-1050S-DIN-C		3	101.9	39.2	54.9	55.9	100	1.9	12	●	2
MPS1-1050L-DIN		5	117.9	55.2	70.9	71.9	116	1.9	12	☐	4
MPS1-1050L-DIN-C		5	117.9	55.2	70.9	71.9	116	1.9	12	●	2
MPS1-1050-PC		2	96.7	22.7	44.7	47.7	95	1.7	12	●	2
MPS1-1050-L8C		8	167.2	86.2	118.2	121.2	165	2.2	12	●	2
MPS1-1050-L10C		10	187.9	106.9	138.9	141.9	186	1.9	12	☐	2
MPS1-1050-L12C		12	208.9	127.9	159.9	162.9	207	1.9	12	●	2
MPS1-1050-L15C		15	239.9	159.4	190.9	193.9	238	1.9	12	●	2
MPS1-1050-L20C		20	292.9	211.9	243.9	246.9	291	1.9	12	●	2
MPS1-1050-L25C		25	344.9	264.4	295.9	298.9	343	1.9	12	●	2
MPS1-1060S-DIN		10.6	3	101.9	39.0	54.9	55.9	100	1.9	12	☐
MPS1-1060S-DIN-C	3		101.9	39.0	54.9	55.9	100	1.9	12	●	2
MPS1-1060L-DIN	5		117.9	55.0	70.9	71.9	116	1.9	12	☐	4
MPS1-1060L-DIN-C	5		117.9	55.0	70.9	71.9	116	1.9	12	●	2
MPS1-1060-PC	2		96.7	22.9	48.7	49.7	95	1.7	12	☐	2
MPS1-1060-L8C	8		172.2	87.0	123.2	126.2	170	2.2	12	●	2
MPS1-1060-L10C	10		193.9	107.9	144.9	147.9	192	1.9	12	☐	2
MPS1-1060-L12C	12		215.9	129.1	166.9	169.9	214	1.9	12	☐	2
MPS1-1060-L15C	15		248.9	160.9	199.9	202.9	247	1.9	12	☐	2
MPS1-1060-L20C	20		303.9	213.9	254.9	257.9	302	1.9	12	☐	2
MPS1-1060-L25C	25		358.9	266.9	309.9	312.9	357	1.9	12	☐	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-1070S-DIN	10.7	3	101.9	38.9	54.9	55.9	100	1.9	12	□	4
MPS1-1070S-DIN-C		3	101.9	38.9	54.9	55.9	100	1.9	12	●	2
MPS1-1070L-DIN		5	117.9	54.9	70.9	71.9	116	1.9	12	□	4
MPS1-1070L-DIN-C		5	117.9	54.9	70.9	71.9	116	1.9	12	●	2
MPS1-1070-PC		2	96.7	23.1	48.7	49.7	95	1.7	12	●	2
MPS1-1070-L8C		8	172.2	87.8	123.2	126.2	170	2.2	12	●	2
MPS1-1070-L10C		10	193.9	108.9	144.9	147.9	192	1.9	12	□	2
MPS1-1070-L12C		12	215.9	130.3	166.9	169.9	214	1.9	12	●	2
MPS1-1070-L15C		15	248.9	162.4	199.9	202.9	247	1.9	12	□	2
MPS1-1070-L20C		20	303.9	215.9	254.9	257.9	302	1.9	12	□	2
MPS1-1070-L25C		25	358.9	269.4	309.9	312.9	357	1.9	12	□	2
MPS1-1080S-DIN	10.8	3	102.0	38.8	55.0	56.0	100	2.0	12	□	4
MPS1-1080S-DIN-C		3	102.0	38.8	55.0	56.0	100	2.0	12	●	2
MPS1-1080L-DIN		5	118.0	54.8	71.0	72.0	116	2.0	12	□	4
MPS1-1080L-DIN-C		5	118.0	54.8	71.0	72.0	116	2.0	12	●	2
MPS1-1080-PC		2	96.7	23.3	48.7	49.7	95	1.7	12	●	2
MPS1-1080-L8C		8	172.2	88.6	123.2	126.2	170	2.2	12	●	2
MPS1-1080-L10C		10	194.0	110.0	145.0	148.0	192	2.0	12	□	2
MPS1-1080-L12C		12	216.0	131.6	167.0	170.0	214	2.0	12	●	2
MPS1-1080-L15C		15	249.0	164.0	200.0	203.0	247	2.0	12	□	2
MPS1-1080-L20C		20	304.0	218.0	255.0	258.0	302	2.0	12	□	2
MPS1-1080-L25C		25	359.0	272.0	310.0	313.0	357	2.0	12	□	2
MPS1-1090S-DIN	10.9	3	102.0	38.6	55.0	56.0	100	2.0	12	□	4
MPS1-1090S-DIN-C		3	102.0	38.6	55.0	56.0	100	2.0	12	●	2
MPS1-1090L-DIN		5	118.0	54.6	71.0	72.0	116	2.0	12	□	4
MPS1-1090L-DIN-C		5	118.0	54.6	71.0	72.0	116	2.0	12	●	2
MPS1-1090-PC		2	96.7	23.5	48.7	49.7	95	1.7	12	□	2
MPS1-1090-L8C		8	172.3	89.5	123.3	126.3	170	2.3	12	●	2
MPS1-1090-L10C		10	194.0	111.0	145.0	148.0	192	2.0	12	□	2
MPS1-1090-L12C		12	216.0	132.8	167.0	170.0	214	2.0	12	□	2
MPS1-1090-L15C		15	249.0	165.5	200.0	203.0	247	2.0	12	□	2
MPS1-1090-L20C		20	304.0	220.0	255.0	258.0	302	2.0	12	□	2
MPS1-1090-L25C		25	359.0	274.5	310.0	313.0	357	2.0	12	□	2
MPS1-1100S-DIN	11.0	3	102.0	38.5	55.0	56.0	100	2.0	12	□	4
MPS1-1100S-DIN-C		3	102.0	38.5	55.0	56.0	100	2.0	12	●	2
MPS1-1100L-DIN		5	118.0	54.5	71.0	72.0	116	2.0	12	□	4
MPS1-1100L-DIN-C		5	118.0	54.5	71.0	72.0	116	2.0	12	●	2
MPS1-1100-PC		2	96.7	23.7	48.7	49.7	95	1.7	12	●	2
MPS1-1100-L8C		8	172.3	90.3	123.3	126.3	170	2.3	12	●	2
MPS1-1100-L10C		10	194.0	112.0	145.0	148.0	192	2.0	12	□	2
MPS1-1100-L12C		12	216.0	134.0	167.0	170.0	214	2.0	12	●	2
MPS1-1100-L15C		15	249.0	167.0	200.0	203.0	247	2.0	12	●	2
MPS1-1100-L20C		20	304.0	222.0	255.0	258.0	302	2.0	12	●	2
MPS1-1100-L25C		25	359.0	277.0	310.0	313.0	357	2.0	12	●	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-1110S-DIN		3	102.0	38.4	55.0	56.0	100	2.0	12	□	4
MPS1-1110S-DIN-C		3	102.0	38.4	55.0	56.0	100	2.0	12	●	2
MPS1-1110L-DIN		5	118.0	54.4	71.0	72.0	116	2.0	12	□	4
MPS1-1110L-DIN-C		5	118.0	54.4	71.0	72.0	116	2.0	12	●	2
MPS1-1110-PC		2	96.7	23.9	48.7	51.7	95	1.7	12	●	2
MPS1-1110-L8C	11.1	8	178.3	91.1	129.3	132.3	176	2.3	12	●	2
MPS1-1110-L10C		10	201.0	113.0	152.0	155.0	199	2.0	12	□	2
MPS1-1110-L12C		12	224.0	135.2	175.0	178.0	222	2.0	12	●	2
MPS1-1110-L15C		15	258.0	168.5	209.0	212.0	256	2.0	12	●	2
MPS1-1110-L20C		20	316.0	224.0	267.0	270.0	314	2.0	12	□	2
MPS1-1110-L25C		25	373.0	279.5	324.0	327.0	371	2.0	12	●	2
MPS1-1120S-DIN		3	102.0	38.2	55.0	56.0	100	2.0	12	□	4
MPS1-1120S-DIN-C		3	102.0	38.2	55.0	56.0	100	2.0	12	●	2
MPS1-1120L-DIN		5	118.0	54.2	71.0	72.0	116	2.0	12	□	4
MPS1-1120L-DIN-C		5	118.0	54.2	71.0	72.0	116	2.0	12	●	2
MPS1-1120-PC		2	96.8	24.2	48.8	51.8	95	1.8	12	●	2
MPS1-1120-L8C	11.2	8	178.3	91.9	129.3	132.3	176	2.3	12	●	2
MPS1-1120-L10C		10	201.0	114.0	152.0	155.0	199	2.0	12	□	2
MPS1-1120-L12C		12	224.0	136.4	175.0	178.0	222	2.0	12	□	2
MPS1-1120-L15C		15	258.0	170.0	209.0	212.0	256	2.0	12	●	2
MPS1-1120-L20C		20	316.0	226.0	267.0	270.0	314	2.0	12	□	2
MPS1-1120-L25C		25	373.0	282.0	324.0	327.0	371	2.0	12	□	2
MPS1-1130S-DIN		3	102.1	38.1	55.1	56.1	100	2.1	12	□	4
MPS1-1130S-DIN-C		3	102.1	38.1	55.1	56.1	100	2.1	12	●	2
MPS1-1130L-DIN		5	118.1	54.1	71.1	72.1	116	2.1	12	□	4
MPS1-1130L-DIN-C		5	118.1	54.1	71.1	72.1	116	2.1	12	●	2
MPS1-1130-PC		2	96.8	24.4	48.8	51.8	95	1.8	12	□	2
MPS1-1130-L8C	11.3	8	178.3	92.7	129.3	132.3	176	2.3	12	●	2
MPS1-1130-L10C		10	201.1	115.1	152.1	155.1	199	2.1	12	□	2
MPS1-1130-L12C		12	224.1	137.7	175.1	178.1	222	2.1	12	□	2
MPS1-1130-L15C		15	258.1	171.6	209.1	212.1	256	2.1	12	□	2
MPS1-1130-L20C		20	316.1	228.1	267.1	270.1	314	2.1	12	□	2
MPS1-1130-L25C		25	373.1	284.6	324.1	327.1	371	2.1	12	□	2
MPS1-1140S-DIN		3	102.1	38.0	55.1	56.1	100	2.1	12	□	4
MPS1-1140S-DIN-C		3	102.1	38.0	55.1	56.1	100	2.1	12	●	2
MPS1-1140L-DIN		5	118.1	54.0	71.1	72.1	116	2.1	12	□	4
MPS1-1140L-DIN-C		5	118.1	54.0	71.1	72.1	116	2.1	12	●	2
MPS1-1140-PC		2	96.8	24.6	48.8	51.8	95	1.8	12	□	2
MPS1-1140-L8C	11.4	8	178.4	93.6	129.4	132.4	176	2.4	12	●	2
MPS1-1140-L10C		10	201.1	116.1	152.1	155.1	199	2.1	12	□	2
MPS1-1140-L12C		12	224.1	138.9	175.1	178.1	222	2.1	12	□	2
MPS1-1140-L15C		15	258.1	173.1	209.1	212.1	256	2.1	12	□	2
MPS1-1140-L20C		20	316.1	230.1	267.1	270.1	314	2.1	12	□	2
MPS1-1140-L25C		25	373.1	287.1	324.1	327.1	371	2.1	12	□	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-1150S-DIN	11.5	3	102.1	37.8	55.1	56.1	100	2.1	12	□	4
MPS1-1150S-DIN-C		3	102.1	37.8	55.1	56.1	100	2.1	12	●	2
MPS1-1150L-DIN		5	118.1	53.8	71.1	72.1	116	2.1	12	□	4
MPS1-1150L-DIN-C		5	118.1	53.8	71.1	72.1	116	2.1	12	●	2
MPS1-1150-PC		2	96.8	24.8	48.8	51.8	95	1.8	12	●	2
MPS1-1150-L8C		8	178.4	94.4	129.4	132.4	176	2.4	12	●	2
MPS1-1150-L10C		10	201.1	117.1	152.1	155.1	199	2.1	12	□	2
MPS1-1150-L12C		12	224.1	140.1	175.1	178.1	222	2.1	12	●	2
MPS1-1150-L15C		15	258.1	174.6	209.1	212.1	256	2.1	12	●	2
MPS1-1150-L20C		20	316.1	232.1	267.1	270.1	314	2.1	12	●	2
MPS1-1150-L25C		25	373.1	289.6	324.1	327.1	371	2.1	12	●	2
MPS1-1160S-DIN	11.6	3	102.1	37.7	55.1	56.1	100	2.1	12	□	4
MPS1-1160S-DIN-C		3	102.1	37.7	55.1	56.1	100	2.1	12	●	2
MPS1-1160L-DIN		5	118.1	53.7	71.1	72.1	116	2.1	12	□	4
MPS1-1160L-DIN-C		5	118.1	53.7	71.1	72.1	116	2.1	12	●	2
MPS1-1160-PC		2	96.8	25.0	48.8	48.8	95	1.8	12	□	2
MPS1-1160-L8C		8	183.4	95.2	134.4	137.4	181	2.4	12	●	2
MPS1-1160-L10C		10	207.1	118.1	158.1	161.1	205	2.1	12	□	2
MPS1-1160-L12C		12	231.1	141.3	182.1	185.1	229	2.1	12	□	2
MPS1-1160-L15C		15	267.1	176.1	218.1	221.1	265	2.1	12	□	2
MPS1-1160-L20C		20	327.1	234.1	278.1	281.1	325	2.1	12	□	2
MPS1-1160-L25C		25	387.1	292.1	338.1	341.1	385	2.1	12	□	2
MPS1-1170S-DIN	11.7	3	102.1	37.6	55.1	56.1	100	2.1	12	□	4
MPS1-1170S-DIN-C		3	102.1	37.6	55.1	56.1	100	2.1	12	●	2
MPS1-1170L-DIN		5	118.1	53.6	71.1	72.1	116	2.1	12	□	4
MPS1-1170L-DIN-C		5	118.1	53.6	71.1	72.1	116	2.1	12	●	2
MPS1-1170-PC		2	96.8	25.2	48.8	48.8	95	1.8	12	●	2
MPS1-1170-L8C		8	183.4	96.0	134.4	137.4	181	2.4	12	●	2
MPS1-1170-L10C		10	207.1	119.1	158.1	161.1	205	2.1	12	□	2
MPS1-1170-L12C		12	231.1	142.5	182.1	185.1	229	2.1	12	●	2
MPS1-1170-L15C		15	267.1	177.6	218.1	221.1	265	2.1	12	●	2
MPS1-1170-L20C		20	327.1	236.1	278.1	281.1	325	2.1	12	□	2
MPS1-1170-L25C		25	387.1	294.6	338.1	341.1	385	2.1	12	□	2
MPS1-1180S-DIN	11.8	3	102.1	37.4	55.1	56.1	100	2.1	12	□	4
MPS1-1180S-DIN-C		3	102.1	37.4	55.1	56.1	100	2.1	12	●	2
MPS1-1180L-DIN		5	118.1	53.4	71.1	72.1	116	2.1	12	□	4
MPS1-1180L-DIN-C		5	118.1	53.4	71.1	72.1	116	2.1	12	●	2
MPS1-1180-PC		2	96.9	25.5	48.9	48.9	95	1.9	12	●	2
MPS1-1180-L8C		8	183.4	96.8	134.4	137.4	181	2.4	12	●	2
MPS1-1180-L10C		10	207.1	120.1	158.1	161.1	205	2.1	12	□	2
MPS1-1180-L12C		12	231.1	143.7	182.1	185.1	229	2.1	12	●	2
MPS1-1180-L15C		15	267.1	179.1	218.1	221.1	265	2.1	12	●	2
MPS1-1180-L20C		20	327.1	238.1	278.1	281.1	325	2.1	12	□	2
MPS1-1180-L25C		25	387.1	297.1	338.1	341.1	385	2.1	12	□	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo	
MPS1-1190S-DIN	11.9	3	102.2	37.3	55.2	56.2	100	2.2	12	□	4	
MPS1-1190S-DIN-C		3	102.2	37.3	55.2	56.2	100	2.2	12	●	2	
MPS1-1190L-DIN		5	118.2	53.3	71.2	72.2	116	2.2	12	□	4	
MPS1-1190L-DIN-C		5	118.2	53.3	71.2	72.2	116	2.2	12	●	2	
MPS1-1190-PC		2	96.9	25.7	48.9	48.9	95	1.9	12	□	2	
MPS1-1190-L8C		8	183.5	97.7	134.5	137.5	181	2.5	12	●	2	
MPS1-1190-L10C		10	207.2	121.2	158.2	161.2	205	2.2	12	□	2	
MPS1-1190-L12C		12	231.2	145.0	182.2	185.2	229	2.2	12	□	2	
MPS1-1190-L15C		15	267.2	180.7	218.2	221.2	265	2.2	12	□	2	
MPS1-1190-L20C		20	327.2	240.2	278.2	281.2	325	2.2	12	□	2	
MPS1-1190-L25C		25	387.2	299.7	338.2	341.2	385	2.2	12	□	2	
MPS1-1200S-DIN		12.0	3	102.2	37.2	55.2	56.2	100	2.2	12	□	4
MPS1-1200S-DIN-C	3		102.2	37.2	55.2	56.2	100	2.2	12	●	2	
MPS1-1200L-DIN	5		118.2	53.2	71.2	72.2	116	2.2	12	□	4	
MPS1-1200L-DIN-C	5		118.2	53.2	71.2	72.2	116	2.2	12	●	2	
MPS1-1200-PC	2		96.9	25.9	48.9	48.9	95	1.9	12	●	2	
MPS1-1200-L8C	8		183.5	98.5	134.5	137.5	181	2.5	12	●	2	
MPS1-1200-L10C	10		207.2	122.2	158.2	161.2	205	2.2	12	□	2	
MPS1-1200-L12C	12		231.2	146.2	182.2	185.2	229	2.2	12	●	2	
MPS1-1200-L15C	15		267.2	182.2	218.2	221.2	265	2.2	12	●	2	
MPS1-1200-L20C	20		327.2	242.2	278.2	281.2	325	2.2	12	●	2	
MPS1-1200-L25C	25		387.2	302.2	338.2	341.2	385	2.2	12	●	2	
MPS1-1205S-DIN	12.05		3	107.2	42.1	60.2	61.2	105	2.2	14	□	4
MPS1-1205S-DIN-C		3	107.2	42.1	60.2	61.2	105	2.2	14	●	2	
MPS1-1205L-DIN		5	124.2	59.1	77.2	78.2	122	2.2	14	□	4	
MPS1-1205L-DIN-C		5	124.2	59.1	77.2	78.2	122	2.2	14	●	2	
MPS1-1210S-DIN	12.1	3	107.2	42.1	60.2	61.2	105	2.2	14	□	4	
MPS1-1210S-DIN-C		3	107.2	42.1	60.2	61.2	105	2.2	14	●	2	
MPS1-1210L-DIN		5	124.2	59.1	77.2	78.2	122	2.2	14	□	4	
MPS1-1210L-DIN-C		5	124.2	59.1	77.2	78.2	122	2.2	14	●	2	
MPS1-1210-PC		2	103.9	26.1	52.9	55.9	102	1.9	14	●	2	
MPS1-1210-L8C		8	189.5	99.3	140.5	143.5	187	2.5	14	●	2	
MPS1-1210-L10C		10	214.2	123.2	165.2	168.2	212	2.2	14	□	2	
MPS1-1210-L12C		12	239.2	147.4	190.2	193.2	237	2.2	14	●	2	
MPS1-1210-L15C		15	276.2	183.7	227.2	230.2	274	2.2	14	●	2	
MPS1-1210-L20C		20	339.2	244.2	290.2	293.2	337	2.2	14	□	2	
MPS1-1220S-DIN		12.2	3	107.2	41.9	60.2	61.2	105	2.2	14	□	4
MPS1-1220S-DIN-C			3	107.2	41.9	60.2	61.2	105	2.2	14	●	2
MPS1-1220L-DIN	5		124.2	58.9	77.2	78.2	122	2.2	14	□	4	
MPS1-1220L-DIN-C	5		124.2	58.9	77.2	78.2	122	2.2	14	●	2	
MPS1-1220-PC	2		103.9	26.3	52.9	55.9	102	1.9	14	●	2	
MPS1-1220-L8C	8		189.5	100.1	140.5	143.5	187	2.5	14	●	2	
MPS1-1220-L10C	10		214.2	124.2	165.2	168.2	212	2.2	14	□	2	
MPS1-1220-L12C	12		239.2	148.6	190.2	193.2	237	2.2	14	●	2	
MPS1-1220-L15C	15		276.2	185.2	227.2	230.2	274	2.2	14	●	2	
MPS1-1220-L20C	20		339.2	246.2	290.2	293.2	337	2.2	14	□	2	

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-1230S-DIN	12.3	3	107.2	41.8	60.2	61.2	105	2.2	14	□	4
MPS1-1230S-DIN-C		3	107.2	41.8	60.2	61.2	105	2.2	14	●	2
MPS1-1230L-DIN		5	124.2	58.8	77.2	78.2	122	2.2	14	□	4
MPS1-1230L-DIN-C		5	124.2	58.8	77.2	78.2	122	2.2	14	●	2
MPS1-1230-PC		2	103.9	26.5	52.9	55.9	102	1.9	14	□	2
MPS1-1230-L8C		8	189.5	100.9	140.5	143.5	187	2.5	14	●	2
MPS1-1230-L10C		10	214.2	125.2	165.2	168.2	212	2.2	14	□	2
MPS1-1230-L12C		12	239.2	149.8	190.2	193.2	237	2.2	14	□	2
MPS1-1230-L15C		15	276.2	186.7	227.2	230.2	274	2.2	14	□	2
MPS1-1230-L20C		20	339.2	248.2	290.2	293.2	337	2.2	14	□	2
MPS1-1240S-DIN	12.4	3	107.3	41.7	60.3	61.3	105	2.3	14	□	4
MPS1-1240S-DIN-C		3	107.3	41.7	60.3	61.3	105	2.3	14	●	2
MPS1-1240L-DIN		5	124.3	58.7	77.3	78.3	122	2.3	14	□	4
MPS1-1240L-DIN-C		5	124.3	58.7	77.3	78.3	122	2.3	14	●	2
MPS1-1240-PC		2	104.0	26.8	53.0	56.0	102	2.0	14	□	2
MPS1-1240-L8C		8	189.6	101.8	140.6	143.6	187	2.6	14	●	2
MPS1-1240-L10C		10	214.3	126.3	165.3	168.3	212	2.3	14	□	2
MPS1-1240-L12C		12	239.3	151.1	190.3	193.3	237	2.3	14	□	2
MPS1-1240-L15C		15	276.3	188.3	227.3	230.3	274	2.3	14	□	2
MPS1-1240-L20C		20	339.3	250.3	290.3	293.3	337	2.3	14	□	2
MPS1-1250S-DIN	12.5	3	107.3	41.5	60.3	61.3	105	2.3	14	□	4
MPS1-1250S-DIN-C		3	107.3	41.5	60.3	61.3	105	2.3	14	●	2
MPS1-1250L-DIN		5	124.3	58.5	77.3	78.3	122	2.3	14	□	4
MPS1-1250L-DIN-C		5	124.3	58.5	77.3	78.3	122	2.3	14	●	2
MPS1-1250-PC		2	104.0	27.0	53.0	56.0	102	2.0	14	●	2
MPS1-1250-L8C		8	189.6	102.6	140.6	143.6	187	2.6	14	●	2
MPS1-1250-L10C		10	214.3	127.3	165.3	168.3	212	2.3	14	□	2
MPS1-1250-L12C		12	239.3	152.3	190.3	193.3	237	2.3	14	●	2
MPS1-1250-L15C		15	276.3	189.8	227.3	230.3	274	2.3	14	●	2
MPS1-1250-L20C		20	339.3	252.3	290.3	293.3	337	2.3	14	□	2
MPS1-1260S-DIN	12.6	3	107.3	41.4	60.3	61.3	105	2.3	14	□	4
MPS1-1260S-DIN-C		3	107.3	41.4	60.3	61.3	105	2.3	14	●	2
MPS1-1260L-DIN		5	124.3	58.4	77.3	78.3	122	2.3	14	□	4
MPS1-1260L-DIN-C		5	124.3	58.4	77.3	78.3	122	2.3	14	●	2
MPS1-1260-PC		2	104.0	27.2	53.0	55.0	102	2.0	14	□	2
MPS1-1260-L8C		8	194.6	103.4	145.6	148.6	192	2.6	14	●	2
MPS1-1260-L10C		10	220.3	128.3	171.3	174.3	218	2.3	14	□	2
MPS1-1260-L12C		12	246.3	153.5	197.3	200.3	244	2.3	14	□	2
MPS1-1260-L15C		15	285.3	191.3	236.3	239.3	283	2.3	14	□	2
MPS1-1260-L20C		20	350.3	254.3	301.3	304.3	348	2.3	14	□	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-1270S-DIN	12.7	3	107.3	41.3	60.3	61.3	105	2.3	14	□	4
MPS1-1270S-DIN-C		3	107.3	41.3	60.3	61.3	105	2.3	14	●	2
MPS1-1270L-DIN		5	124.3	58.3	77.3	78.3	122	2.3	14	□	4
MPS1-1270L-DIN-C		5	124.3	58.3	77.3	78.3	122	2.3	14	●	2
MPS1-1270-PC		2	104.0	27.4	53.0	55.0	102	2.0	14	●	2
MPS1-1270-L8C		8	194.6	104.2	145.6	148.6	192	2.6	14	●	2
MPS1-1270-L10C		10	220.3	129.3	171.3	174.3	218	2.3	14	□	2
MPS1-1270-L12C		12	246.3	154.7	197.3	200.3	244	2.3	14	●	2
MPS1-1270-L15C		15	285.3	192.8	236.3	239.3	283	2.3	14	□	2
MPS1-1270-L20C		20	350.3	256.3	301.3	304.3	348	2.3	14	□	2
MPS1-1280S-DIN	12.8	3	107.3	41.1	60.3	61.3	105	2.3	14	□	4
MPS1-1280S-DIN-C		3	107.3	41.1	60.3	61.3	105	2.3	14	●	2
MPS1-1280L-DIN		5	124.3	58.1	77.3	78.3	122	2.3	14	□	4
MPS1-1280L-DIN-C		5	124.3	58.1	77.3	78.3	122	2.3	14	●	2
MPS1-1280-PC		2	104.0	27.6	53.0	55.0	102	2.0	14	●	2
MPS1-1280-L8C		8	194.7	105.1	145.7	148.7	192	2.7	14	●	2
MPS1-1280-L10C		10	220.3	130.3	171.3	174.3	218	2.3	14	□	2
MPS1-1280-L12C		12	246.3	155.9	197.3	200.3	244	2.3	14	●	2
MPS1-1280-L15C		15	285.3	194.3	236.3	239.3	283	2.3	14	□	2
MPS1-1280-L20C		20	350.3	258.3	301.3	304.3	348	2.3	14	□	2
MPS1-1290S-DIN	12.9	3	107.3	41.0	60.3	61.3	105	2.3	14	□	4
MPS1-1290S-DIN-C		3	107.3	41.0	60.3	61.3	105	2.3	14	●	2
MPS1-1290L-DIN		5	124.3	58.0	77.3	78.3	122	2.3	14	□	4
MPS1-1290L-DIN-C		5	124.3	58.0	77.3	78.3	122	2.3	14	●	2
MPS1-1290-PC		2	104.0	27.8	53.0	55.0	102	2.0	14	□	2
MPS1-1290-L8C		8	194.7	105.9	145.7	148.7	192	2.7	14	●	2
MPS1-1290-L10C		10	220.3	131.3	171.3	174.3	218	2.3	14	□	2
MPS1-1290-L12C		12	246.3	157.1	197.3	200.3	244	2.3	14	□	2
MPS1-1290-L15C		15	285.3	195.8	236.3	239.3	283	2.3	14	□	2
MPS1-1290-L20C		20	350.3	260.3	301.3	304.3	348	2.3	14	□	2
MPS1-1300S-DIN	13.0	3	107.4	40.9	60.4	61.4	105	2.4	14	□	4
MPS1-1300S-DIN-C		3	107.4	40.9	60.4	61.4	105	2.4	14	●	2
MPS1-1300L-DIN		5	124.4	57.9	77.4	78.4	122	2.4	14	□	4
MPS1-1300L-DIN-C		5	124.4	57.9	77.4	78.4	122	2.4	14	●	2
MPS1-1300-PC		2	104.0	28.0	53.0	55.0	102	2.0	14	●	2
MPS1-1300-L8C		8	194.7	106.7	145.7	148.7	192	2.7	14	●	2
MPS1-1300-L10C		10	220.4	132.4	171.4	174.4	218	2.4	14	□	2
MPS1-1300-L12C		12	246.4	158.4	197.4	200.4	244	2.4	14	●	2
MPS1-1300-L15C		15	285.4	197.4	236.4	239.4	283	2.4	14	●	2
MPS1-1300-L20C		20	350.4	262.4	301.4	304.4	348	2.4	14	●	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-1310S-DIN	13.1	3	107.4	40.7	60.4	61.4	105	2.4	14	□	4
MPS1-1310S-DIN-C		3	107.4	40.7	60.4	61.4	105	2.4	14	●	2
MPS1-1310L-DIN		5	124.4	57.7	77.4	78.4	122	2.4	14	□	4
MPS1-1310L-DIN-C		5	124.4	57.7	77.4	78.4	122	2.4	14	●	2
MPS1-1310-PC		2	109.1	28.3	56.1	59.1	107	2.1	14	□	2
MPS1-1310-L8C		8	200.7	107.5	151.7	154.7	198	2.7	14	●	2
MPS1-1310-L10C		10	227.4	133.4	178.4	181.4	225	2.4	14	□	2
MPS1-1310-L12C		12	254.4	159.6	205.4	208.4	252	2.4	14	□	2
MPS1-1310-L15C		15	294.4	198.9	245.4	248.4	292	2.4	14	□	2
MPS1-1310-L20C		20	362.4	264.4	313.4	316.4	360	2.4	14	□	2
MPS1-1320S-DIN	13.2	3	107.4	40.6	60.4	61.4	105	2.4	14	□	4
MPS1-1320S-DIN-C		3	107.4	40.6	60.4	61.4	105	2.4	14	●	2
MPS1-1320L-DIN		5	124.4	57.6	77.4	78.4	122	2.4	14	□	4
MPS1-1320L-DIN-C		5	124.4	57.6	77.4	78.4	122	2.4	14	●	2
MPS1-1320-PC		2	109.1	28.5	56.1	59.1	107	2.1	14	●	2
MPS1-1320-L8C		8	200.7	108.3	151.7	154.7	198	2.7	14	●	2
MPS1-1320-L10C		10	227.4	134.4	178.4	181.4	225	2.4	14	□	2
MPS1-1320-L12C		12	254.4	160.8	205.4	208.4	252	2.4	14	●	2
MPS1-1320-L15C		15	294.4	200.4	245.4	248.4	292	2.4	14	□	2
MPS1-1320-L20C		20	362.4	266.4	313.4	316.4	360	2.4	14	□	2
MPS1-1330S-DIN	13.3	3	107.4	40.5	60.4	61.4	105	2.4	14	□	4
MPS1-1330S-DIN-C		3	107.4	40.5	60.4	61.4	105	2.4	14	●	2
MPS1-1330L-DIN		5	124.4	57.5	77.4	78.4	122	2.4	14	□	4
MPS1-1330L-DIN-C		5	124.4	57.5	77.4	78.4	122	2.4	14	●	2
MPS1-1330-PC		2	109.1	28.7	56.1	59.1	107	2.1	14	□	2
MPS1-1330-L8C		8	200.8	109.2	151.8	154.8	198	2.8	14	●	2
MPS1-1330-L10C		10	227.4	135.4	178.4	181.4	225	2.4	14	□	2
MPS1-1330-L12C		12	254.4	162.0	205.4	208.4	252	2.4	14	□	2
MPS1-1330-L15C		15	294.4	201.9	245.4	248.4	292	2.4	14	□	2
MPS1-1330-L20C		20	362.4	268.4	313.4	316.4	360	2.4	14	□	2
MPS1-1340S-DIN	13.4	3	107.4	40.3	60.4	61.4	105	2.4	14	□	4
MPS1-1340S-DIN-C		3	107.4	40.3	60.4	61.4	105	2.4	14	●	2
MPS1-1340L-DIN		5	124.4	57.3	77.4	78.4	122	2.4	14	□	4
MPS1-1340L-DIN-C		5	124.4	57.3	77.4	78.4	122	2.4	14	●	2
MPS1-1340-PC		2	109.1	28.9	56.1	59.1	107	2.1	14	□	2
MPS1-1340-L8C		8	200.8	110.0	151.8	154.8	198	2.8	14	●	2
MPS1-1340-L10C		10	227.4	136.4	178.4	181.4	225	2.4	14	□	2
MPS1-1340-L12C		12	254.4	163.2	205.4	208.4	252	2.4	14	□	2
MPS1-1340-L15C		15	294.4	203.4	245.4	248.4	292	2.4	14	□	2
MPS1-1340-L20C		20	362.4	270.4	313.4	316.4	360	2.4	14	□	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-1350S-DIN	13.5	3	107.5	40.2	60.5	61.5	105	2.5	14	□	4
MPS1-1350S-DIN-C		3	107.5	40.2	60.5	61.5	105	2.5	14	●	2
MPS1-1350L-DIN		5	124.5	57.2	77.5	78.5	122	2.5	14	□	4
MPS1-1350L-DIN-C		5	124.5	57.2	77.5	78.5	122	2.5	14	●	2
MPS1-1350-PC		2	109.1	29.1	56.1	59.1	107	2.1	14	●	2
MPS1-1350-L8C		8	200.8	110.8	151.8	154.8	198	2.8	14	●	2
MPS1-1350-L10C		10	227.5	137.5	178.5	181.5	225	2.5	14	□	2
MPS1-1350-L12C		12	254.5	164.5	205.5	208.5	252	2.5	14	●	2
MPS1-1350-L15C		15	294.5	205.0	245.5	248.5	292	2.5	14	□	2
MPS1-1350-L20C		20	362.5	272.5	313.5	316.5	360	2.5	14	□	2
MPS1-1360S-DIN	13.6	3	107.5	40.1	60.5	61.5	105	2.5	14	□	4
MPS1-1360S-DIN-C		3	107.5	40.1	60.5	61.5	105	2.5	14	●	2
MPS1-1360L-DIN		5	124.5	57.1	77.5	78.5	122	2.5	14	□	4
MPS1-1360L-DIN-C		5	124.5	57.1	77.5	78.5	122	2.5	14	●	2
MPS1-1360-PC		2	109.1	29.3	56.1	56.1	107	2.1	14	□	2
MPS1-1360-L8C		8	205.8	111.6	156.8	159.8	203	2.8	14	●	2
MPS1-1360-L10C		10	233.5	138.5	184.5	187.5	231	2.5	14	□	2
MPS1-1360-L12C		12	261.5	165.7	212.5	215.5	259	2.5	14	□	2
MPS1-1360-L15C		15	303.5	206.5	254.5	257.5	301	2.5	14	□	2
MPS1-1360-L20C		20	373.5	274.5	324.5	327.5	371	2.5	14	□	2
MPS1-1370S-DIN	13.7	3	107.5	39.9	60.5	61.5	105	2.5	14	□	4
MPS1-1370S-DIN-C		3	107.5	39.9	60.5	61.5	105	2.5	14	●	2
MPS1-1370L-DIN		5	124.5	56.9	77.5	78.5	122	2.5	14	□	4
MPS1-1370L-DIN-C		5	124.5	56.9	77.5	78.5	122	2.5	14	●	2
MPS1-1370-PC		2	109.2	29.6	56.2	56.2	107	2.2	14	□	2
MPS1-1370-L8C		8	205.8	112.4	156.8	159.8	203	2.8	14	●	2
MPS1-1370-L10C		10	233.5	139.5	184.5	187.5	231	2.5	14	□	2
MPS1-1370-L12C		12	261.5	166.9	212.5	215.5	259	2.5	14	□	2
MPS1-1370-L15C		15	303.5	208.0	254.5	257.5	301	2.5	14	□	2
MPS1-1370-L20C		20	373.5	276.5	324.5	327.5	371	2.5	14	□	2
MPS1-1380S-DIN	13.8	3	107.5	39.8	60.5	61.5	105	2.5	14	□	4
MPS1-1380S-DIN-C		3	107.5	39.8	60.5	61.5	105	2.5	14	●	2
MPS1-1380L-DIN		5	124.5	56.8	77.5	78.5	122	2.5	14	□	4
MPS1-1380L-DIN-C		5	124.5	56.8	77.5	78.5	122	2.5	14	●	2
MPS1-1380-PC		2	109.2	29.8	56.2	56.2	107	2.2	14	□	2
MPS1-1380-L8C		8	205.9	113.3	156.9	159.9	203	2.9	14	●	2
MPS1-1380-L10C		10	233.5	140.5	184.5	187.5	231	2.5	14	□	2
MPS1-1380-L12C		12	261.5	168.1	212.5	215.5	259	2.5	14	□	2
MPS1-1380-L15C		15	303.5	209.5	254.5	257.5	301	2.5	14	□	2
MPS1-1380-L20C		20	373.5	278.5	324.5	327.5	371	2.5	14	□	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-1390S-DIN	13.9	3	107.5	39.7	60.5	61.5	105	2.5	14	□	4
MPS1-1390S-DIN-C		3	107.5	39.7	60.5	61.5	105	2.5	14	●	2
MPS1-1390L-DIN		5	124.5	56.7	77.5	78.5	122	2.5	14	□	4
MPS1-1390L-DIN-C		5	124.5	56.7	77.5	78.5	122	2.5	14	●	2
MPS1-1390-PC		2	109.2	30.0	56.2	56.2	107	2.2	14	□	2
MPS1-1390-L8C		8	205.9	114.1	156.9	159.9	203	2.9	14	●	2
MPS1-1390-L10C		10	233.5	141.5	184.5	187.5	231	2.5	14	□	2
MPS1-1390-L12C		12	261.5	169.3	212.5	215.5	259	2.5	14	□	2
MPS1-1390-L15C		15	303.5	211.0	254.5	257.5	301	2.5	14	□	2
MPS1-1390-L20C		20	373.5	280.5	324.5	327.5	371	2.5	14	□	2
MPS1-1400S-DIN	14.0	3	107.5	39.5	60.5	61.5	105	2.5	14	□	4
MPS1-1400S-DIN-C		3	107.5	39.5	60.5	61.5	105	2.5	14	●	2
MPS1-1400L-DIN		5	124.5	56.5	77.5	78.5	122	2.5	14	□	4
MPS1-1400L-DIN-C		5	124.5	56.5	77.5	78.5	122	2.5	14	●	2
MPS1-1400-PC		2	109.2	30.2	56.2	56.2	107	2.2	14	●	2
MPS1-1400-L8C		8	205.9	114.9	156.9	159.9	203	2.9	14	●	2
MPS1-1400-L10C		10	233.5	142.5	184.5	187.5	231	2.5	14	□	2
MPS1-1400-L12C		12	261.5	170.5	212.5	215.5	259	2.5	14	●	2
MPS1-1400-L15C		15	303.5	212.5	254.5	257.5	301	2.5	14	●	2
MPS1-1400-L20C		20	373.5	282.5	324.5	327.5	371	2.5	14	●	2
MPS1-1420S-DIN	14.2	3	114.6	43.3	64.6	65.6	112	2.6	16	□	4
MPS1-1420S-DIN-C		3	114.6	43.3	64.6	65.6	112	2.6	16	●	2
MPS1-1420L-DIN		5	132.6	61.3	82.6	83.6	130	2.6	16	□	4
MPS1-1420L-DIN-C		5	132.6	61.3	82.6	83.6	130	2.6	16	●	2
MPS1-1450S-DIN	14.5	3	114.6	42.9	64.6	65.6	112	2.6	16	□	4
MPS1-1450S-DIN-C		3	114.6	42.9	64.6	65.6	112	2.6	16	●	2
MPS1-1450L-DIN		5	132.6	60.9	82.6	83.6	130	2.6	16	□	4
MPS1-1450L-DIN-C		5	132.6	60.9	82.6	83.6	130	2.6	16	●	2
MPS1-1500S-DIN	15.0	3	114.7	42.2	64.7	65.7	112	2.7	16	□	4
MPS1-1500S-DIN-C		3	114.7	42.2	64.7	65.7	112	2.7	16	●	2
MPS1-1500L-DIN		5	132.7	60.2	82.7	83.7	130	2.7	16	□	4
MPS1-1500L-DIN-C		5	132.7	60.2	82.7	83.7	130	2.7	16	●	2
MPS1-1550S-DIN	15.5	3	114.8	41.6	64.8	65.8	112	2.8	16	□	4
MPS1-1550S-DIN-C		3	114.8	41.6	64.8	65.8	112	2.8	16	●	2
MPS1-1550L-DIN		5	132.8	59.6	82.8	83.8	130	2.8	16	□	4
MPS1-1550L-DIN-C	5	132.8	59.6	82.8	83.8	130	2.8	16	●	2	
MPS1-1600S-DIN	16.0	3	114.9	40.9	64.9	65.9	112	2.9	16	□	4
MPS1-1600S-DIN-C		3	114.9	40.9	64.9	65.9	112	2.9	16	●	2
MPS1-1600L-DIN		5	132.9	58.9	82.9	83.9	130	2.9	16	□	4
MPS1-1600L-DIN-C		5	132.9	58.9	82.9	83.9	130	2.9	16	●	2
MPS1-1650S-DIN	16.5	3	123.0	48.3	73.0	74.0	120	3.0	18	□	4
MPS1-1650S-DIN-C		3	123.0	48.3	73.0	74.0	120	3.0	18	●	2
MPS1-1650L-DIN		5	143.0	68.3	93.0	94.0	140	3.0	18	□	4
MPS1-1650L-DIN-C		5	143.0	68.3	93.0	94.0	140	3.0	18	●	2
MPS1-1700S-DIN	17.0	3	123.1	47.6	73.1	74.1	120	3.1	18	□	4
MPS1-1700S-DIN-C		3	123.1	47.6	73.1	74.1	120	3.1	18	●	2
MPS1-1700L-DIN		5	143.1	67.6	93.1	94.1	140	3.1	18	□	4
MPS1-1700L-DIN-C		5	143.1	67.6	93.1	94.1	140	3.1	18	●	2

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# MPS1

## PUNTA IN METALLO DURO

Codice ordinazione	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Tipo
MPS1-1750S-DIN	17.5	3	123.2	46.9	73.2	74.2	120	3.2	18	□	4
MPS1-1750S-DIN-C		3	123.2	46.9	73.2	74.2	120	3.2	18	●	2
MPS1-1750L-DIN		5	143.2	66.9	93.2	94.2	140	3.2	18	□	4
MPS1-1750L-DIN-C		5	143.2	66.9	93.2	94.2	140	3.2	18	●	2
MPS1-1800S-DIN	18.0	3	123.3	46.3	73.3	74.3	120	3.3	18	□	4
MPS1-1800S-DIN-C		3	123.3	46.3	73.3	74.3	120	3.3	18	●	2
MPS1-1800L-DIN		5	143.3	66.3	93.3	94.3	140	3.3	18	□	4
MPS1-1800L-DIN-C		5	143.3	66.3	93.3	94.3	140	3.3	18	●	2
MPS1-1850S-DIN	18.5	3	131.4	51.6	79.4	80.4	128	3.4	20	□	4
MPS1-1850S-DIN-C		3	131.4	51.6	79.4	80.4	128	3.4	20	●	2
MPS1-1850L-DIN		5	153.4	73.6	101.4	102.4	150	3.4	20	□	4
MPS1-1850L-DIN-C		5	153.4	73.6	101.4	102.4	150	3.4	20	●	2
MPS1-1900S-DIN	19.0	3	131.5	51.0	79.5	80.5	128	3.5	20	□	4
MPS1-1900S-DIN-C		3	131.5	51.0	79.5	80.5	128	3.5	20	●	2
MPS1-1900L-DIN		5	153.5	73.0	101.5	102.5	150	3.5	20	□	4
MPS1-1900L-DIN-C		5	153.5	73.0	101.5	102.5	150	3.5	20	●	2
MPS1-1950S-DIN	19.5	3	131.5	50.3	79.5	80.5	128	3.5	20	□	4
MPS1-1950S-DIN-C		3	131.5	50.3	79.5	80.5	128	3.5	20	●	2
MPS1-1950L-DIN		5	153.5	72.3	101.5	102.5	150	3.5	20	□	4
MPS1-1950L-DIN-C		5	153.5	72.3	101.5	102.5	150	3.5	20	●	2
MPS1-2000S-DIN	20.0	3	131.6	49.6	79.6	80.6	128	3.6	20	□	4
MPS1-2000S-DIN-C		3	131.6	49.6	79.6	80.6	128	3.6	20	●	2
MPS1-2000L-DIN		5	153.6	71.6	101.6	102.6	150	3.6	20	□	4
MPS1-2000L-DIN-C		5	153.6	71.6	101.6	102.6	150	3.6	20	●	2

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# MPS1

## CONDIZIONI DI TAGLIO RACCOMANDATE

Materiale	Durezza	DC	L x DC	Vc	f
Acciaio	<180HB	3	3-8	100 ( 60-150)	0.15 (0.10-0.20)
			10-25	90 ( 40-110)	0.17 (0.10-0.24)
			30-40	75 ( 40- 95)	0.14 (0.08-0.19)
		4	3-8	120 ( 70-170)	0.19 (0.12-0.25)
			10-25	90 ( 40-110)	0.20 (0.12-0.30)
			30-40	75 ( 40- 95)	0.16 (0.10-0.24)
		5	3-8	130 ( 80-190)	0.23 (0.15-0.30)
			10-25	90 ( 40-110)	0.25 (0.15-0.35)
			30-40	75 ( 40- 95)	0.20 (0.12-0.28)
		6	3-8	140 ( 90-210)	0.27 (0.18-0.35)
			10-25	110 ( 70-120)	0.27 (0.17-0.37)
			30-40	90 ( 40-110)	0.22 (0.14-0.30)
		8	3-8	160 (100-240)	0.30 (0.20-0.40)
			10-25	110 ( 70-120)	0.30 (0.20-0.40)
			30-40	90 ( 40-110)	0.24 (0.16-0.32)
		10	3-8	170 (100-250)	0.33 (0.20-0.45)
			10-25	110 ( 70-120)	0.32 (0.22-0.42)
			30-40	90 ( 40-110)	0.26 (0.18-0.34)
		12	3-8	180 (100-250)	0.35 (0.20-0.50)
			10-25	130 ( 90-150)	0.34 (0.24-0.44)
			30-40	105 ( 55-125)	0.27 (0.19-0.35)
		16	3-8	180 (100-250)	0.38 (0.20-0.55)
			10-25	130 ( 90-150)	0.36 (0.26-0.46)
		20	3-8	180 (100-250)	0.40 (0.20-0.60)
Acciaio al carbonio, Acciaio legato	180-250HB	3	3-8	90 ( 60-140)	0.15 (0.10-0.19)
			10-25	90 ( 40-110)	0.17 (0.10-0.24)
			30-40	75 ( 40- 85)	0.14 (0.08-0.19)
		4	3-8	100 ( 70-160)	0.18 (0.12-0.24)
			10-25	90 ( 40-110)	0.20 (0.12-0.30)
			30-40	75 ( 40- 85)	0.16 (0.10-0.24)
		5	3-8	110 ( 80-180)	0.22 (0.15-0.29)
			10-25	90 ( 40-110)	0.25 (0.15-0.35)
			30-40	75 ( 40- 85)	0.20 (0.12-0.28)
		6	3-8	120 ( 90-190)	0.26 (0.18-0.33)
			10-25	100 ( 60-110)	0.24 (0.15-0.33)
			30-40	80 ( 40- 90)	0.22 (0.14-0.30)
		8	3-8	140 (100-220)	0.29 (0.20-0.38)
			10-25	100 ( 60-110)	0.30 (0.20-0.40)
			30-40	80 ( 40- 90)	0.24 (0.16-0.32)
		10	3-8	150 (100-230)	0.32 (0.20-0.43)
			10-25	100 ( 60-110)	0.32 (0.22-0.42)
			30-40	80 ( 40- 90)	0.26 (0.18-0.34)
		12	3-8	160 (100-230)	0.34 (0.20-0.48)
			10-25	120 ( 80-140)	0.34 (0.24-0.44)
			30-40	95 ( 55-105)	0.27 (0.19-0.35)
		16	3-8	160 (100-230)	0.36 (0.20-0.52)
			10-25	120 ( 80-140)	0.36 (0.26-0.46)
		20	3-8	160 (100-230)	0.39 (0.20-0.57)

## MPS1

Materiale	Durezza	DC	L x DC	Vc	f
P Acciaio al carbonio, Acciaio legato	280-350 HB	3	3-8	80 ( 50-110)	0.12 (0.10-0.14)
			10-25	80 ( 40- 90)	0.15 (0.09-0.22)
			30-40	65 ( 40- 75)	0.15 (0.07-0.18)
		4	3-8	90 ( 60-120)	0.15 (0.12-0.18)
			10-25	80 ( 40- 90)	0.18 (0.11-0.27)
			30-40	65 ( 40- 75)	0.18 (0.09-0.22)
		5	3-8	90 ( 70-140)	0.19 (0.15-0.22)
			10-25	80 ( 40- 90)	0.22 (0.14-0.32)
			30-40	65 ( 40- 75)	0.22 (0.11-0.26)
		6	3-8	100 ( 80-150)	0.22 (0.18-0.25)
			10-25	90 ( 40-110)	0.24 (0.15-0.33)
			30-40	75 ( 40- 85)	0.24 (0.12-0.26)
		8	3-8	120 ( 90-170)	0.24 (0.20-0.27)
			10-25	90 ( 40-110)	0.27 (0.18-0.36)
			30-40	75 ( 40- 85)	0.27 (0.14-0.29)
		10	3-8	130 ( 90-180)	0.25 (0.20-0.30)
			10-25	90 ( 40-110)	0.29 (0.20-0.38)
			30-40	75 ( 40- 95)	0.29 (0.16-0.30)
		12	3-8	140 ( 90-180)	0.27 (0.20-0.34)
			10-25	100 ( 60-110)	0.30 (0.22-0.40)
30-40	80 ( 40-100)		0.30 (0.18-0.32)		
16	3-8	140 ( 90-180)	0.28 (0.20-0.36)		
	10-25	100 ( 60-110)	0.32 (0.23-0.41)		
20	3-8	140 ( 90-180)	0.30 (0.20-0.40)		
M Acciaio inossidabile		3	3-8	40 ( 20- 50)	0.08 (0.06-0.12)
			10-25	40 ( 20- 60)	0.07 (0.05-0.09)
			30-40	30 ( 20- 50)	0.06 (0.04-0.07)
		4	3-8	40 ( 30- 50)	0.09 (0.07-0.13)
			10-25	40 ( 20- 60)	0.08 (0.06-0.10)
			30-40	30 ( 20- 50)	0.06 (0.05-0.08)
		5	3-8	40 ( 30- 50)	0.11 (0.08-0.16)
			10-25	40 ( 20- 60)	0.10 (0.07-0.12)
			30-40	30 ( 20- 50)	0.08 (0.06-0.10)
		6	3-8	50 ( 40- 70)	0.14 (0.11-0.18)
			10-25	50 ( 20- 60)	0.12 (0.08-0.16)
			30-40	40 ( 20- 60)	0.10 (0.06-0.13)
		8	3-8	50 ( 40- 70)	0.15 (0.12-0.20)
			10-25	50 ( 20- 60)	0.14 (0.10-0.17)
			30-40	40 ( 20- 50)	0.11 (0.08-0.14)
		10	3-8	50 ( 40- 70)	0.16 (0.12-0.22)
			10-25	50 ( 20- 60)	0.15 (0.12-0.18)
			30-40	40 ( 20- 50)	0.12 (0.10-0.14)
		12	3-8	50 ( 40- 70)	0.18 (0.14-0.24)
			10-25	60 ( 25- 65)	0.17 (0.14-0.19)
30-40	50 ( 20- 60)		0.14 (0.11-0.15)		
16	3-8	50 ( 40- 70)	0.19 (0.15-0.26)		
	10-25	60 ( 25- 65)	0.17 (0.14-0.19)		
20	3-8	50 ( 40- 70)	0.21 (0.16-0.28)		

## MPS1

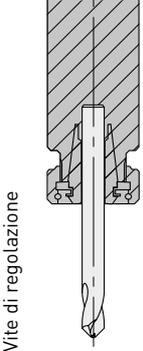
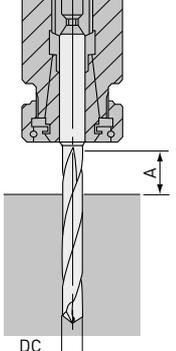
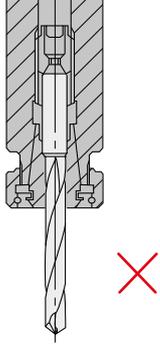
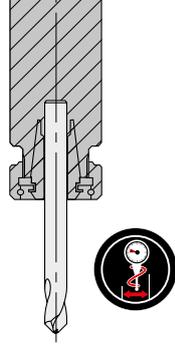
Materiale	Durezza	DC	L x DC	Vc	f
K Ghisa	≤ 350 MPa	3	3-8	90 ( 60-100)	0.15 (0.10-0.20)
			10-25	90 ( 40-110)	0.19 (0.11-0.26)
			30-40	75 ( 45- 95)	0.15 (0.09-0.21)
		4	3-8	100 ( 70-110)	0.21 (0.12-0.30)
			10-25	90 ( 40-110)	0.22 (0.13-0.33)
			30-40	75 ( 45- 95)	0.18 (0.10-0.26)
		5	3-8	110 ( 80-130)	0.25 (0.15-0.35)
			10-25	90 ( 40-110)	0.28 (0.17-0.39)
			30-40	75 ( 45- 95)	0.22 (0.13-0.31)
		6	3-8	120 ( 90-140)	0.29 (0.18-0.40)
			10-25	100 ( 60-110)	0.30 (0.19-0.41)
			30-40	90 ( 60-110)	0.24 (0.15-0.33)
		8	3-8	140 (100-160)	0.33 (0.20-0.45)
			10-25	100 ( 60-110)	0.33 (0.22-0.44)
			30-40	90 ( 60-100)	0.26 (0.18-0.35)
		10	3-8	150 (100-170)	0.35 (0.20-0.50)
			10-25	100 ( 60-110)	0.35 (0.24-0.46)
			30-40	90 ( 60-100)	0.28 (0.19-0.37)
		12	3-8	160 (100-170)	0.40 (0.20-0.60)
			10-25	120 ( 90-140)	0.37 (0.26-0.48)
			30-40	105 ( 65-115)	0.30 (0.21-0.38)
16	3-8	160 (100-170)	0.43 (0.20-0.65)		
	10-25	120 ( 90-140)	0.40 (0.29-0.48)		
20	3-8	160 (100-170)	0.45 (0.20-0.70)		
K Ghisa sferoidale	≤ 450 MPa	3	3-8	80 ( 50- 90)	0.12 (0.08-0.16)
			10-25	90 ( 40-110)	0.17 (0.10-0.24)
			30-40	30 ( 20- 50)	0.14 (0.08-0.19)
		4	3-8	90 ( 60-100)	0.17 (0.10-0.24)
			10-25	90 ( 40-110)	0.20 (0.12-0.30)
			30-40	30 ( 20- 50)	0.16 (0.10-0.24)
		5	3-8	90 ( 70-120)	0.21 (0.14-0.28)
			10-25	90 ( 40-110)	0.25 (0.15-0.35)
			30-40	30 ( 20- 50)	0.20 (0.12-0.28)
		6	3-8	100 ( 80-130)	0.25 (0.16-0.34)
			10-25	100 ( 60-110)	0.27 (0.17-0.37)
			30-40	40 ( 30- 60)	0.22 (0.14-0.30)
		8	3-8	120 ( 90-150)	0.28 (0.18-0.38)
			10-25	100 ( 60-110)	0.30 (0.20-0.40)
			30-40	40 ( 30- 60)	0.24 (0.16-0.32)
		10	3-8	130 ( 90-160)	0.29 (0.18-0.40)
			10-25	100 ( 60-110)	0.32 (0.22-0.42)
			30-40	40 ( 30- 60)	0.26 (0.18-0.34)
		12	3-8	140 ( 90-160)	0.31 (0.18-0.44)
			10-25	120 ( 90-140)	0.34 (0.24-0.44)
			30-40	50 ( 40- 70)	0.27 (0.19-0.35)
16	3-8	140 ( 90-160)	0.33 (0.18-0.48)		
	10-25	120 ( 90-140)	0.36 (0.26-0.46)		
20	3-8	140 ( 90-160)	0.35 (0.18-0.52)		

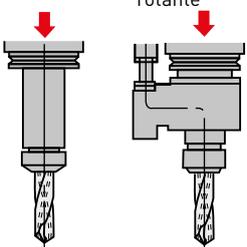
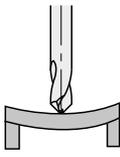
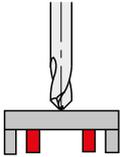
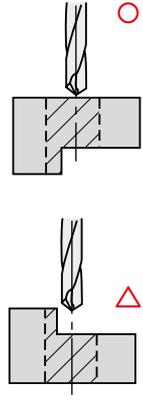
# MPS1

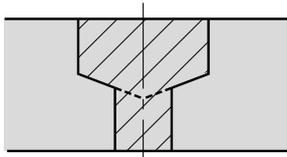
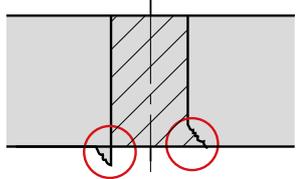
Materiale	Durezza	DC	L x DC	Vc	f
K Ghisa sferoidale	≤ 800 MPa	3	3-8	60 ( 40- 80)	0.09 (0.06-0.12)
		4	3-8	70 ( 50- 90)	0.13 (0.08-0.18)
		5	3-8	70 ( 60-100)	0.17 (0.12-0.22)
		6	3-8	80 ( 70-110)	0.20 (0.14-0.26)
		8	3-8	100 ( 80-130)	0.23 (0.16-0.30)
		10	3-8	110 ( 80-140)	0.24 (0.16-0.32)
		12	3-8	110 ( 80-140)	0.25 (0.16-0.34)
		16	3-8	110 ( 80-140)	0.27 (0.16-0.38)
		20	3-8	110 ( 80-140)	0.28 (0.16-0.40)

# MPS1

GUIDA OPERATIVA

BLOCCAGGIO PUNTA	LUNGHEZZA PUNTA	MONTAGGIO PUNTA	TOLLERANZA INSTALLAZIONE
 <p>Vite di regolazione</p>	 <p>DC</p> <p>A</p>		
La ghiera reggispunta del mandrino blocca la punta in modo sicuro.	$A \geq DC \times 1.5$	Non serrare sui taglienti.	Eccentricità $\leq 0.03$ mm

TIPO CON REFRIGERANTE INTERNO	MANIPOLAZIONE REFRIGERANTE	PEZZO DA LAVORARE SOTTILE	TAGLIO INTERROTTO
<p>Mandrino con refrigerante interno</p> <p>Passaggio refrigerante tramite distributore rotante</p>  <p>Pressione refrigerante pari a circa 0.5-1MPa (&lt;math&gt;\leq 2-3MPa&lt;/math&gt;).</p>	<p>Piccole particelle di sporco possono ostruire i fori di lubrificazione. Utilizzare sempre un filtro a maglia fine come misura preventiva.</p> <p>Sporcizia e particelle metalliche aderiscono al vecchio vecchio refrigerante. Si raccomanda di sostituire regolarmente il refrigerante.</p>	<p>Se tende a flettere</p>  <p>Supportare il pezzo da lavorare</p> 	<p>Unico processo</p> <p>1. Ridurre l'avanzamento quando si fora sulla parte con taglio interrotto.</p> <p>Foratura dopo lavorazione preliminare</p> <p>1. Praticare un'impronta con fresa integrale prima della foratura.</p> 

FORATURA A GRADINO	SBAVE E SCHEGGIATURE SUL PEZZO DA LAVORARE
	
<p>Suddividere in due fasi. Forare il diametro maggiore per primo. E' possibile produrre su richiesta una punta che realizza i due diametri contemporaneamente.</p>	<p>Ridurre l'avanzamento circa del 50% prima dell'uscita della punta dal foro. Aggiungere uno smusso a 45°. Modificare l'angolo di punta.</p>

# MPS1

## MODO DI IMPIEGO DELLE PUNTE SUPER LUNGHE

### REALIZZAZIONE DI UN FORO CIECO

#### 1. Realizzare un foro pilota



Utilizzare una punta con un angolo più grande (più piatto) rispetto al tipo superlungo. Si consigliano Mitsubishi MPS1 (PC).  
Praticare un foro pilota molto preciso.  
Profondità di foratura: circa 1 x DC o superiore.  
(Adattare la profondità del foro pilota alla lunghezza della punta super lunga.)

#### 2. Taglio iniziale con la punta di tipo lungo



Inserezze la punta lunga nel foro pilota ad un numero di giri ridotto. Velocità di taglio 20-30 m/min, avanzamento 0.2-0.3 mm/giro.  
Fermare la punta lunga a 1-3 mm dal fondo del foro pilota.

#### 3. Realizzare il foro profondo



Iniziare alla velocità consigliata e avanzare in modo continuo (senza interrompere l'avanzamento).

#### 4. Arretramento della punta



Dopo la foratura ridurre la velocità 1-2 mm prima della fine del foro (velocità di circa 20-30 m/min).  
Arretrare la punta fino alla profondità di partenza del foro pilota (Vf = 3000 mm/min.)  
Arretrare la punta dal foro pilota a bassa velocità (n = 300, Vf = 3000 mm/min).

### FORATURE E ROTTURE SU SUPERFICIE O ANGOLAZIONI IRREGOLARI

#### 1. Lamatura



Realizzare una superficie piana, utilizzando una fresa frontale o una punta in grado di effettuare lamature. Il diametro di lamatura deve avere le stesse dimensioni del diametro del foro profondo.

#### 2. Realizzare un foro pilota



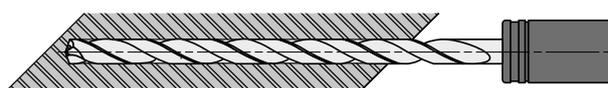
Utilizzare una punta con un angolo più grande (più piatto) rispetto al tipo superlungo. Si consigliano Mitsubishi MPS1 (PC).  
Praticare un foro pilota molto preciso.  
Profondità di foratura: circa 1 x DC o superiore.  
(Adattare la profondità del foro pilota alla lunghezza della punta super lunga.)

#### 3. Taglio iniziale con la punta di tipo lungo



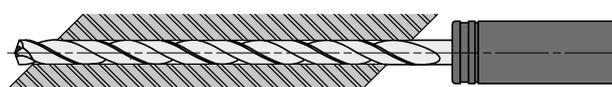
Inserire la punta lunga nel foro pilota ad un numero di giri ridotto. Velocità di taglio 20-30 m/min, avanzamento 0.2-0.3 mm/giro.  
Fermare la punta lunga a 1-3 mm dal fondo del foro pilota.

#### 4. Realizzare il foro profondo



Iniziare alla velocità consigliata e avanzare in modo continuo (senza interrompere l'avanzamento).  
Avanzare come di consueto fino a quando si arriva in prossimità dell'uscita del foro.

#### 5. Sfondamento



Durante lo sfondamento, il tagliente può danneggiarsi. Si consiglia un avanzamento di 0.05-0.1 mm/giro.

#### 6. Arretramento della punta



Arretrare la punta alla profondità di partenza del foro pilota con avanzamento di 3000 mm/min.  
Quindi uscire dal foro ad una velocità di 20-30 m/min e un avanzamento di 0.2-0.3 mm/giro.











## FILIALI EUROPEE

### GERMANY

MITSUBISHI MATERIALS TOOLS EUROPE GMBH  
Comeniusstr. 2 . 40670 Meerbusch  
Phone +49 2159 91890 . Fax +49 2159 918966  
Email admin@mmchg.de

### UK Office

MMC HARDMETAL UK LTD  
1 Centurion Court, Centurion Way  
Tamworth, B77 5PN  
Phone +44 1827 312312  
Email sales@mitsubishicarbide.co.uk

### UK Deliveries / Returns

Unit 4 B5K Business Park, Quartz Close  
Tamworth, B77 4GR

### SPAIN

MITSUBISHI MATERIALS ESPAÑA, S.A.  
Calle Emperador 2 . 46136 Museros/Valencia  
Phone +34 96 1441711  
Email comercial@mmevalencia.es

### FRANCE

MMC METAL FRANCE S.A.R.L.  
6, Rue Jacques Monod . 91400 Orsay  
Phone +33 1 69 35 53 53 . Fax +33 1 69 35 53 50  
Email mmfsales@mmc-metal-france.fr

### POLAND

MMC HARDMETAL POLAND SP. Z O.O  
Al. Armii Krajowej 61 . 50-541 Wrocław  
Phone +48 71335 1620 . Fax +48 71335 1621  
Email sales@mitsubishicarbide.com.pl

### ITALY

MMC ITALIA S.R.L.  
Viale Certosa 144 . 20156 Milano  
Phone +39 0293 77031 . Fax +39 0293 589093  
Email info@mmc-italia.it

### TURKEY

MITSUBISHI MATERIALS TOOLS EUROPE GMBH ALMANYA İZMİR MERKEZ ŞUBESİ  
Adalet Mahallesi Anadolu Caddesi No: 41-1 . 15001 35530 Bayraklı /İzmir  
Phone +90 232 5015000 . Fax +90 232 5015007  
Email info@mmchg.com.tr

[www.mmc-carbide.com](http://www.mmc-carbide.com)

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