

## PM-steel range powderTEC®

### POWDER-METALLURGICAL STEEL OF THE NEWEST GENERATION.

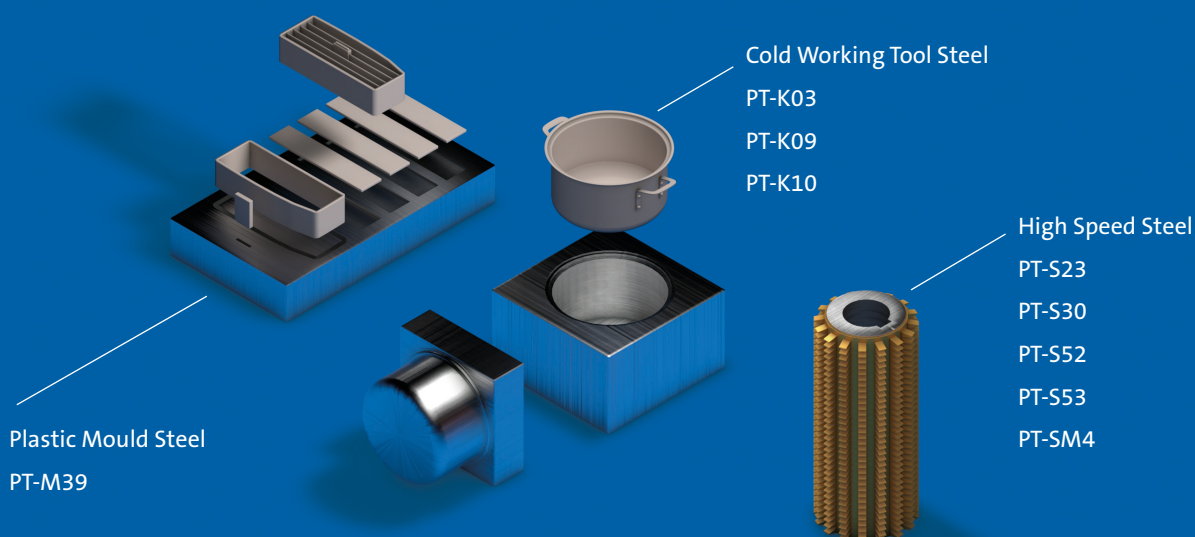
powderTEC® steel is manufactured on state-of-the-art Inteco equipment. The steel is finished by hot isostatic pressing using advanced technology from Quintus. These manufacturing methods guarantee powder metallurgical steel with the finest and most homogeneous structure. Powder metallurgical steels allow for high alloy contents without significantly compromising the mechanical properties, as is the case with conventional alloys.

The complex manufacturing process creates a homogeneous, defect-free, and segregation-free microstructure.

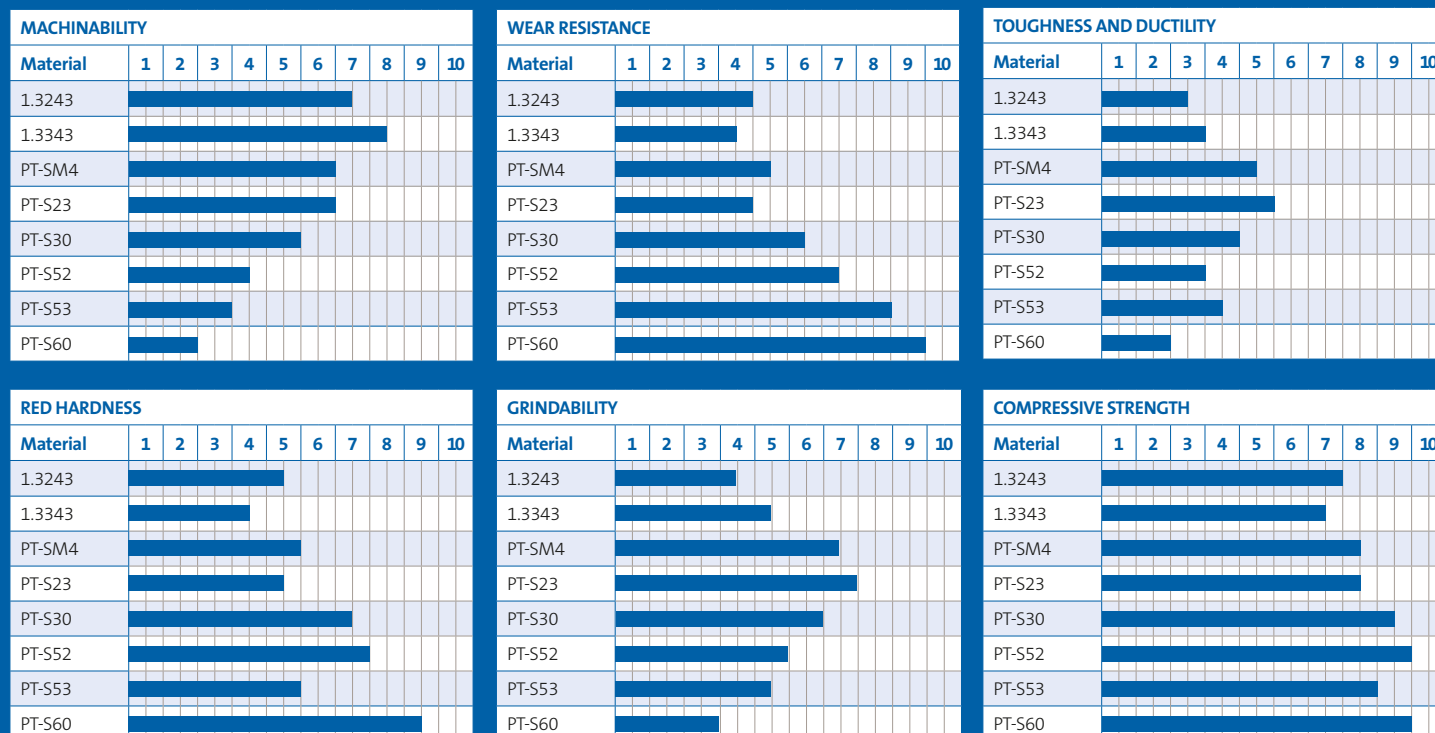
Powder metallurgical steels impress with their exceptional toughness, outstanding wear resistance, and high working hardness, thus enabling particularly long tool life.

## STOCK PROGRAM powderTEC® Other materials and dimensions from new production possible!

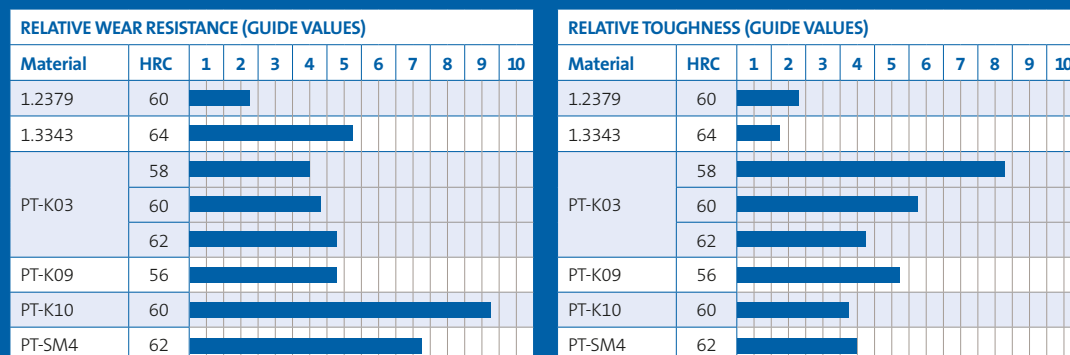
powderTEC®		CHEMICAL COMPOSITION IN %								ANNEALED HARDNESS	WORKING HARDNESS	DIMENSIONS IN MM	
Material No.	Equivalent	C	Si	Mn	Cr	Mo	W	V	Co	HB max.	HRC	Round	Flat/Square
HIGH SPEED STEEL													
PT-S23	PM 23	1,30	0,60	0,30	4,10	5,00	6,30	3,10		270	57–66	3,5–333	200–500 × 50–250
PT-S30	PM 30	1,28	0,50	0,40	4,20	5,00	6,30	3,00	8,40	300	57–68	3,7–253	230–510 × 50–210
PT-S52	PM 52	1,65	0,60	0,30	4,80	2,00	10,50	4,80	8,00	300	57–69	20,5–161	300–505 × 200/205
PT-S53	PM 53	2,48	0,50	0,40	4,10	3,10	4,00	7,90		300	54–66	22,5–232	505 × 205
PT-SM4	PM M4	1,40	0,60	0,30	4,10	5,00	5,80	4,00		280	59–65	10,3–257	550 × 205
COLD WORKING TOOL STEEL													
PT-K03	PM 3V	0,80	1,00	0,50	7,60	1,30		2,80		250	54–63	25,5–206	200–505 × 75–205
PT-K09	PM 9V	1,80	0,90	0,50	5,30	1,30		9,00		280	49–58	63–233	
PT-K10	PM 10V	2,45	0,90	0,50	5,20	1,30		9,80		280	56–65	20,5–222	505 × 205
PLASTIC MOULD STEEL													
PT-M39		1,90	0,70	0,30	20,00	1,00	0,60	4,00		280	57–63	25,5–121,5	



## High Speed Steel



## Cold Working Tool Steel



Note: The information contained in this data sheet is for descriptive purposes only; liability is excluded.



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