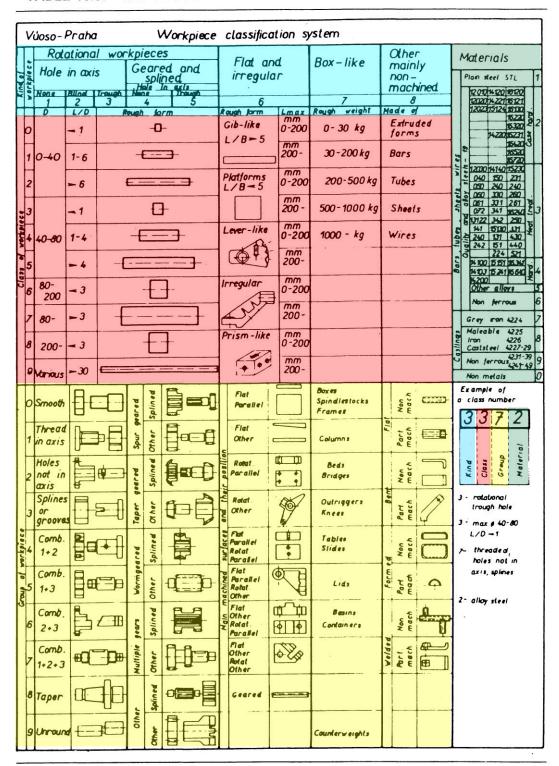
HAND OUT 01: GROUP TECHNOLOGY - PARTS CLASSIFICATION & CODING

TABLE 10.3. THE VUOSO-PRAHA CODE



Source: Gallagher and Knight, 1973.

and/or other directions Auxiliary Holes and Gear Teeth Axial and/or radial on pitch diameter circle Axial, on pitch circle and/or other direction Radial, not on pitch Axial, not on pitch No auxiliary holes Axial and/or radial Other gear teeth circle diameter circle diameter Bevel gear teeth Spur gear teeth All others diameter No gear teeth With gear teeth 0 7 S 6 4 9 ∞ External groove and/or slot polygon, groove and/or slot and/or slot, external spline External spline (polygon) Internal spline (polygon) No surface machining curved in one direction External plane surface External plane surface Plane Surface Machining Surface plane and/or related by graduation Internal plane surface Internal and external around a circle and/or slot All others external Digit 4 7 3 4 S 8 9 6 Form Code Digits for Rotational Parts in the Opitz System - Part Classes 0, 1, 2 No shape elements No shape elements Functional cone Operating thread No hole or breakthrough Functiona Functiona groove Thread groove Thread Internal Shape All others Digit 3 2mooth or stepped to one end Stepped to both ends 6 Functiona Smooth, no shape groove Thread No shape elements No shape elements Operating thread Functional Functional cone Thread groove External Shape elements All others Digit 2 Or smooth Stepped to one end Stepped to both ends 9 6 0.5 < L/D < 3 1(0)E17 (-) L/D < 0.5 10,181 L/D> Part Class Digit 1 Rotational Parts 0

Form Code Digits for Rotational Parts in the Opitz System - Part Classes 3, 4

		T	T	T	T			1	1 	T	1
Digit 5	Auxiliary Holes, Gear Teeth, Forming	No auxiliary holes, gear teeth, forming	Axial hole(s) not related by drilling pattem	Holes axial and/or radial and/or in other directions, not related		Holes axial Battern and/or radial and/or in other directions	Formed, no auxiliary holes	Formed, with auxiliary holes	Gear teeth, no auxiliary holes	Gear teeth with auxiliary hole(s)	Other
			ļ	io gear teeth			eth .	Formin gear to	Gear		
	Aux	0	<u> </u>	41001 1000 O	w primari	4 • N	vo ou o	nimmoH	7	∞	
			L			,	Γ'			<u>ω</u>	6
Digit 4	Plane Surface Machining	No surface machining	External plane surface and/or surface curved in one direction	External planed surfaces related to one another by graduation around a circle	External groove and/or slot	External spline and/or polygon	External plane surface and/or slot and/or groove, spline	Internal plane surface and/or groove	Internal spline and/or polygon	External and internal spline and/or groove and/or slot	Other
	<u>P</u>	0	_	2	3	4	د	9	7	∞	6
-	T	<u> </u>									
Digit 3	Rotational Machining	No rotational machining	Machined	With screw threads	Smooth	Stepped toward one or both ends (multiple increases)	With screw threads	Machined	Screw thread(s)	External shape elements	Other shape elements
	Rotationa	ž	ıl shape	Externs	Internal Shape				External internal	Ext	ڻ °
		0	-	2	m	4	2	9	7	∞	6
Digit 2	Overall Shape	Hexagonal bar	<i>S</i>			Segments after rotational machining	Segments before rotational machining	Rotational components with curved axis	Rotational components with two or more parallel axes	Rotational components with intersecting axes	Others
		Around one axis, no segments				7	- L	more than one axis		Around	
-		0	_	2	ω	4	8	9	7	∞	6
Digit 1	Part Class		<u>ar</u>	alle and the second sec	p I	With deviation L/D > 2	Special		40 172 44 173 44 173 47	17.78 E. S.	Spewhile
		Rotational Parts							នេះ ប្រែលេវនេ	(e) (s) (a) (f)	
		9			m	4	Ø.	S V		0 •	6. +

Supplementary Code Digits for Parts in the Opitz System

Digit 9	Diameter D or Edge Length A	No accuracy specified		2	E.		\$	2 and 3	2 and 4	2 and 5	3 and 4	2 and 3 and 4 and 5
	Dia	0		_	7	ED.	4	2	9	7	∞ .	6
		L		<u> </u>								
Digit 8	Initial Form	Round bar, black		Round bar, bright drawn	Bar: triangular, square, hexagonal, others	Tubing	Angle, U-, T-, and similar sections	Sheet	Plate and slabs	Cast or forged components	Welded assembly	Pre-machined components
		0			7	m	4	2	9	7	∞	6
				l	1	l <u>.</u>						
Digit 7	Material	Cast iron		Nodular graphitic cast iron and malleable cast iron	Mild steel ≤ 26.5 tonf/in.² not heat treated	Hard steel > 26.5 tonf/in. ² heat- treatable low-carbon and case- hardening steel, not heat treated	Steels 2 and 3 heat treated	Alloy steel (not heat treated)	Alloy steel heat treated	Non-ferrous metal	Light alloy	Other materials
		0		-	7	т	4	5	9	7	∞	6
Digit 6	Diameter D or Edge Length A	inches	≥ 0.8	> 0.8, ≤ 2.0	>2.0, ≤4.0	> 4.0, ≤ 6.5	> 6.5, ≤ 10.0	> 10.0, ≤ 16.0	> 16,0, < 25.0	>25.0, ≤ 40.0	> 40.0, ≤ 80.0	> 80.0
		mm	> 20	> 20, < 50	> 50, ≤ 100	>100, ≤160	> 160, < 250	> 250, < 400	> 400, ≤ 600	> 600, ≤ 1000	> 1000, ≤ 2000	> 2000
		0			7	m	4	ς.	9	7	∞	6