



conveying machine	5,640	5,803	5,685	5,483	5,479	5,410	5,123	5,109	5,065	4,772	4,117	4,083	4,099	4,059	4,024	4,040	3,744	3,725	3,772	3,883	3,879	3,610	3,667	3,667	107,938
other equipment	2,492	2,500	2,428	2,363	2,299	2,384	2,408	2,469	2,476	2,465	1,928	2,180	2,042	2,221	2,190	2,293	2,150	2,242	2,348	2,345	2,407	2,331	2,496	2,591	56,048
substance, material	2,179	2,076	1,947	1,751	1,624	1,507	1,447	1,381	1,336	1,150	986	973	980	931	915	949	896	869	934	923	863	825	782	877	29,101
temporary buildings, establishments	836	812	895	820	805	927	727	755	771	743	698	652	708	689	655	665	685	652	630	693	752	705	720	753	17,748
load	1,036	1,080	1,101	934	962	894	850	902	801	796	688	716	686	645	657	628	642	595	583	592	644	588	608	606	18,234
environment	183	230	204	199	205	203	186	177	162	197	158	157	177	199	211	156	152	159	128	182	185	200	199	168	4,377
others	150	161	93	94	83	97	71	85	95	112	56	74	72	82	74	69	90	69	110	99	92	92	107	108	2,235
total	24,813	24,595	23,450	22,150	21,795	21,441	20,293	20,043	19,375	18,439	15,514	15,843	15,851	15,802	15,276	15,238	14,513	14,136	14,529	14,585	14,592	13,602	14,020	14,099	423,994

Transition of Causal agent (M) of fatal & non-fatal accident (caught in/between) in 1999-2022

Causal agent (M)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
general machine	5,989	6,015	5,802	5,590	5,538	5,336	4,916	4,842	4,645	4,462	3,954	4,015	3,894	3,801	3,600	3,463	3,344	3,190	3,354	3,255	3,237	2,916	3,011	2,926	101,095
conveying machine	3,910	4,073	3,952	3,794	3,862	3,772	3,562	3,550	3,493	3,350	2,833	2,880	2,881	2,867	2,826	2,832	2,648	2,648	2,722	2,718	2,679	2,550	2,581	2,594	75,577
human power machine, tools	1,014	1,041	1,020	1,005	989	1,029	1,006	1,066	1,084	1,155	907	1,060	965	1,094	1,007	1,075	1,073	1,121	1,210	1,273	1,229	1,240	1,326	1,399	26,388
metal manufacturing machine	3,853	3,655	3,231	2,969	2,972	2,941	2,801	2,714	2,494	2,315	1,660	1,734	1,906	1,847	1,672	1,700	1,633	1,500	1,534	1,509	1,468	1,303	1,365	1,350	52,126
materials	2,177	2,072	1,945	1,749	1,620	1,506	1,446	1,377	1,335	1,149	985	972	979	928	914	948	896	866	927	923	862	825	781	877	29,059
temporary buildings, establishments	836	812	895	820	805	927	727	755	771	743	698	652	708	689	655	665	685	652	630	693	752	705	720	753	17,748
crane	1,266	1,275	1,235	1,243	1,189	1,137	1,070	1,034	1,042	924	805	762	770	759	731	765	677	653	660	724	753	624	673	625	21,396
load	1,036	1,080	1,101	934	962	894	850	902	801	796	688	716	686	645	657	628	642	595	583	592	644	588	608	606	18,234
other equipments, facilities	500	540	470	499	460	534	560	525	551	492	452	494	466	523	495	532	487	479	463	461	500	467	530	555	12,035
tools	732	708	717	649	660	604	651	695	673	636	449	518	501	479	551	532	487	513	551	511	572	517	520	516	13,942

construction machine	1,016	908	878	839	783	748	753	729	617	592	540	542	567	591	605	636	536	509	517	487	516	488	499	506	15,402
vehicle	464	455	498	446	428	501	491	525	530	498	479	441	448	433	467	443	419	424	390	441	447	436	413	448	10,965
power transmission mechanism	605	536	506	501	431	423	467	431	404	408	354	375	353	352	336	320	368	301	340	328	287	276	287	299	9,288
woodworking machine	807	788	656	587	598	548	528	438	489	418	354	331	354	362	326	306	247	301	248	252	232	240	252	217	9,879
natural environment	183	230	204	199	205	203	186	177	162	197	158	157	177	199	211	156	152	159	128	182	185	200	199	168	4,377
welding equipment	155	141	147	130	124	148	122	122	119	122	65	59	53	78	93	98	71	82	71	68	62	61	67	71	2,329
other causal agents	134	146	76	80	70	83	66	66	78	86	44	64	66	62	58	54	79	58	88	76	67	58	57	71	1,787
no causal agent	11	11	8	8	9	5	3	15	12	16	8	8	5	16	13	13	9	11	19	20	24	34	47	35	360
mobile silviculture machine																	15	13	12	24	19	20	15	21	139
kiln, caldron	31	25	26	37	22	31	26	21	20	25	22	19	30	21	21	26	11	20	25	10	16	21	21	20	547
electric equipment	31	18	15	16	14	16	17	22	12	17	14	13	13	13	13	16	10	13	13	6	19	13	18	14	366
engine	27	31	24	20	16	23	16	11	20	9	21	11	13	23	11	13	11	11	19	13	11	8	12	10	384
pressure vessel	24	20	29	19	25	17	16	14	13	16	18	13	11	12	10	7	9	12	12	9	5	10	12	10	343
chemical facilities	5	7	4	8	5	5	10	4	4	2	1	4	3	1		7	2	2	3	7	4	2	2	6	98
unclassifiable	5	4	9	6	4	9	2	4	5	10	4	2	1	4	3	2	2		3	3	1		3	2	88
hazards, harmful substances	2	4	2	2	4	1	1	4	1	1	1	1	1	3	1	1		3	7		1		1		42

Transition of Causal agent (S) of fatal & non-fatal accident (caught in/between) in 1999-2022

Causal agent (S)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
other general power machines		3,151	3,033		2,943		2,511	2,582	2,474	2,362	2,006	2,027	2,027	1,915	1,811	1,774	1,725	1,677	1,730	1,806	1,795	1,560	1,648	1,555	44,112
truck		1,357	1,358		1,265		1,109	1,128	1,109	1,085	956	915	932	983	957	955	882	894	901	955	973	951	986	968	21,619
human power hauling equipment		656	597		664		707	777	794	889	680	835	754	875	782	857	861	940	988	1,057	948	923	905	845	17,334
forklift		1,112	1,035		1,018		1,091	998	983	922	782	775	827	783	735	725	765	818	786	772	769	717	701	753	17,867
conveyor		1,216	1,213		1,216		1,050	1,092	1,091	1,047	849	897	850	849	879	895	773	745	785	744	703	672	679	665	18,910
food manufacturing machine		1,294	1,267		1,148		1,136	1,015	967	987	951	971	932	907	849	814	807	795	795	713	721	641	667	660	19,037

metal material		1,233	1,230		1,059		962	945	937	814	695	666	664	620	629	659	637	598	655	662	596	586	536	642	16,025
other equipments, facilities		540	470		460		560	525	551	492	452	494	466	523	495	532	487	479	463	461	500	467	530	555	10,502
load		905	905		795		696	722	666	674	566	585	577	530	562	540	541	489	501	510	551	508	531	523	12,877
other metal manufacturing machines		1,233	1,061		973		901	901	840	731	532	590	654	615	619	578	521	487	550	514	531	456	493	472	14,252
power press		1,257	1,024		1,025		954	893	805	718	490	518	601	599	522	538	517	461	492	469	452	395	397	421	13,548
other tools		439	480		447		450	490	485	461	319	380	376	358	407	412	376	409	426	390	450	415	399	393	8,762
human power cranes		28	43		39		33	32	29	36	13	17	25	22	22	26	18	25	22	23	110	132	244	374	1,313
cars, bus, motorcycle		338	364		318		386	409	409	399	381	358	368	344	368	354	327	329	302	345	334	357	327	355	7,472
other temporary buildings, establishments		305	334		332		295	334	322	298	278	285	268	286	249	312	305	305	266	322	360	326	327	340	6,449
roll machine (except printingroll machine)		640	601		562		514	500	483	477	419	460	393	414	411	397	366	329	393	335	339	324	303	322	8,982
building, establishment		333	418		355		332	321	346	356	353	301	367	330	334	274	303	270	299	307	286	297	282	303	6,767
power transmission mechanism		536	506		431		467	431	404	408	354	375	353	352	336	320	368	301	340	328	287	276	287	299	7,759
crane		585	570		572		515	490	534	452	367	362	389	399	333	359	305	324	331	352	381	300	331	292	8,543
excavating machine		419	397		322		336	309	239	251	232	235	239	248	241	267	196	205	221	209	228	230	226	233	5,483
other powered conveying machines		331	291		311		269	282	268	245	201	259	241	221	220	211	197	170	221	223	207	185	187	186	4,926
drill press, milling machine		503	511		402		413	389	370	371	248	253	252	234	221	232	244	225	187	194	180	172	166	179	5,946
mobile crane		376	319		315		280	268	235	265	222	204	197	183	210	199	202	185	181	193	188	178	184	176	4,760
mixer, grinder		253	269		265		221	236	245	213	204	189	193	214	208	194	186	143	170	151	161	174	146	171	4,206
printing machine		463	451		421		372	361	327	317	270	260	262	250	227	215	181	184	186	159	147	142	165	149	5,509
hand tool		291	307		238		228	214	230	201	181	174	162	170	169	151	155	134	165	160	146	156	155	141	3,928
lathe		345	360		283		270	285	225	263	199	197	207	219	171	155	192	153	137	178	145	156	155	133	4,428
other environments		130	129		128		133	117	109	131	110	106	117	139	136	110	103	131	86	128	143	160	150	126	2,622
other woodworking machines		432	336		287		282	240	270	215	190	176	191	200	166	164	136	176	131	126	125	122	144	115	4,224
lumber, bamboo		356	327		250		226	193	178	134	120	142	139	136	122	126	113	130	127	113	102	105	104	106	3,349
slinging tool		221	189		175		168	170	162	143	105	108	97	92	106	101	93	88	101	89	94	78	102	96	2,578
grinding machine, buffing machine		132	139		124		122	115	127	112	80	80	103	88	66	95	77	88	92	81	84	62	84	84	2,035



scaffolding		34	29		35		25	22	26	21	23	13	19	18	14	18	12	15	17	9	27	15	17	18	427
foundation work machine		55	45		40		44	42	29	32	24	29	30	38	37	28	38	27	28	25	26	28	21	17	683
industrial robot		20	16		34		21	25	25	15	15	12	14	17	14	15	16	12	14	16	13	13	12	14	353
centrifugal machine		19	8		15		9	14	12	14	6	9	10	9	11	9	10	9	8	11	10	10	7	14	224
arc welding equipment		20	31		33		33	39	38	28	23	12	12	21	25	23	9	24	16	13	14	13	10	12	449
loader		17	21		15		12	15	18	12	6	15	10	12	14	18	6	6	12	7	9	10	15	11	261
felling machine																	6	2	6	7	10	12	3	11	57
band sawing machine		79	51		58		42	27	36	21	30	18	24	16	15	22	11	13	20	15	12	12	13	10	545
engine		31	24		16		16	11	20	9	21	11	13	23	11	13	11	11	19	13	11	8	12	10	314
kiln, caldron		14	14		13		17	8	13	13	5	10	10	12	12	16	6	11	13	4	6	12	15	10	234
industrial dryer		9	11		8		8	11	7	9	13	9	16	7	8	10	3	7	12	6	10	8	5	9	186
cargo lifting appliance		10	11		6		5	5	6	2	4	3	10	1	5	5	1	2	7	4	5	5	4	9	110
opening		7	15		3		2	4	3	1	2	3	2	2	7	6		7	1	6	7	6	4	8	96
timbering		33	23		16		10	14	11	9	8	3	8	4	8	5	11	5	3	8	5	3	8	7	202
other pressure vessels		16	16		20		10	12	10	10	13	11	8	9	7	4	6	8	9	7	3	7	7	7	200
roof, beam, haze, crossbeam, principal rafter		18	11		5		10	9	7	3	2	2	5	9	5	1	4	3	3	6	3	2	8	7	123
railway equipment		20	18		14		22	22	14	22	20	8	14	15	15	16	13	7	5	7	11	7	7	6	283
other electrical equipment		13	8		11		12	18	6	16	8	10	10	8	10	11	4	3	7	4	10	10	13	6	198
forging pressure hammer		13	12		5		15	15	10	13	10	9	7	5	7	3	9	7	11	9	6	7	5	6	184
stairs, landing stage		12	9		6		8	10	10	10	5	7	7	4	2	6	7	6	2	9	11	9	4	6	150
chemical facilities		7	4		5		10	4	4	2	1	4	3	1		7	2	2	3	7	4	2	2	6	80
gondola		2	3		6		4	4	1	6		5	5	1	2	3	1	2	4	4	5	1	2	6	67
mobile logging machine																	8	5	4	8	3	3	5	6	42
chamfering machine, router, woodworking milling machine		22	24		26		20	16	18	12	10	10	8	6	10	14	9	11	9	9	7	6	11	5	263
rough terrain hauler		18	16		21		9	12	10	15	19	11	7	4	5	10	10	5	11	8	7	8	5	5	216

natural ground, rock		21	11		21		13	16	6	11	6	5	10	10	9	6	8	5	7	7	4	4	8	4	192
chain saw		6	16		10		10	6	9	13	8	7	11	7	4	6	3	3	4	5	2	8	6	4	148
electric power facilities		3	4		1		3	3	2		3		2	2	1	2	5	8	2		7	1	3	4	56
transmission		2	3		2		2	1	4	1	3	3	1	3	2	3	1	2	4	2	2	2	2	4	49
gas welding equipment		4	8		3		4	5	4	1	4	3	3	1		2	1	1		7	6	1	2	3	63
lumberyard equipment, logging cableway		13	14		9		13	8	9	7	7	10	5	4	7	6	2	4	6	2	3	1	6	2	138
unclassifiable		4	9		4		2	4	5	10	4	2	1	4	3	2	2		3	3	1		3	2	68
pressure vessel		3	10		4		6	2	3	4	5	1	3	3	3	2	3	2	2	1	1	3	4	2	67
skyline yarding machine																	1	6	1	7	6	2	5	2	30
other mobile silviculture machine																			1	2		3	2	2	10
water		1	1		2		1	6		6	2	1	1	2	3	1	3	1	3	2	2	1		1	40
other kiln, caldron		2	1		1		1	2		3	4		4	2	1		2	2				1	1	1	28
boiler		1	3		1				2		1					1		2	1	1	1		1	1	16
abnormal environment			1			2															1			1	5
simple skyline yarding equipment																						2	1	1	4
straddle carrier		2			2		1		2						1	2	2	3	1	2			1		19
other hazards, harmful substances			1		3		1	1		1	1					1		3	5						17
explosive substance		1					2	1			1	1	1	1									1		9
inflammable substance		3	1		1								1						2		1				9
derrick crane					1		1				1	2													5
high/cold temperature environment			1					1	1										1						4
inflammable gas													1												1
harmful substance							1																		1
radiation																									

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