



conveying machine	27,703	28,227	27,961	26,939	27,092	26,804	28,513	28,370	27,643	26,454	23,289	23,632	23,297	23,472	23,573	23,407	22,644	22,459	22,792	23,250	22,711	21,673	22,343	21,810	596,058
others	8,188	7,912	7,812	8,062	8,298	8,304	8,737	9,094	9,037	9,543	9,205	9,388	9,826	9,944	9,853	10,004	10,459	10,055	11,411	12,351	12,867	19,727	34,423	15,228	269,728
machine	25,149	24,466	22,905	21,440	20,971	20,132	19,027	18,188	17,723	16,950	14,347	14,418	14,462	14,039	13,474	13,106	12,649	12,191	12,014	11,929	11,908	11,268	11,472	11,140	385,368
load	8,008	8,170	8,653	7,697	7,790	7,435	7,543	7,940	8,286	7,829	6,692	6,599	6,537	6,669	6,460	6,408	6,456	6,554	6,530	6,910	7,042	7,272	7,392	7,770	174,642
environment	6,264	6,088	6,737	5,681	5,774	5,877	5,855	5,682	5,216	5,535	5,181	5,939	7,487	6,346	6,498	6,792	5,704	5,942	6,169	7,445	5,950	6,388	6,432	7,418	148,400
substance, material	14,831	14,351	13,664	12,769	11,840	11,771	11,263	11,414	10,945	9,687	8,076	8,080	8,155	8,316	8,044	8,141	7,473	7,319	7,390	7,260	7,204	6,647	6,665	7,065	228,370
total	141,055	139,974	140,149	132,339	132,936	132,248	133,050	134,298	131,478	129,026	114,152	116,733	119,622	119,576	118,157	119,535	116,311	117,910	120,460	127,329	125,611	131,156	149,918	132,355	3,075,378

Transition of Causal agent (M) of fatal & non-fatal accident (total) 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
temporary buildings, establishments	29,140	29,142	30,124	28,388	29,723	29,998	30,100	31,227	29,973	30,333	27,500	28,276	29,357	29,633	28,999	30,285	29,885	31,608	32,105	35,123	34,068	34,443	36,307	36,716	742,453
conveying machine	16,292	16,779	16,467	15,654	15,780	15,278	15,025	14,945	14,537	13,860	11,828	12,217	12,312	12,357	12,580	12,431	12,066	11,952	12,379	12,519	12,422	12,288	12,510	12,314	326,792
tools	10,618	10,444	10,704	10,094	10,525	10,553	10,601	10,931	10,851	10,959	9,432	9,522	9,901	9,872	10,069	10,069	9,964	10,287	10,688	10,936	11,557	11,170	11,610	11,530	252,887
no causal agent	4,221	3,975	4,210	4,810	4,855	4,624	5,155	5,163	5,291	5,589	5,959	6,155	6,093	6,428	6,291	6,478	6,749	6,613	7,514	8,635	8,939	10,065	11,276	10,980	156,068
human power machine, tools	7,396	7,382	7,702	7,634	7,460	7,506	7,466	7,572	7,718	7,574	6,747	6,969	6,911	7,366	7,238	7,223	7,123	7,368	7,432	7,884	8,061	8,316	8,576	8,884	181,508
vehicle	8,378	8,340	8,498	8,465	8,552	8,901	10,824	10,880	10,687	10,189	9,563	9,554	9,146	9,293	9,165	9,121	8,870	8,835	8,766	8,949	8,487	7,771	8,154	7,872	217,260
load	8,008	8,170	8,653	7,697	7,790	7,435	7,543	7,940	8,286	7,829	6,692	6,599	6,537	6,669	6,460	6,408	6,456	6,554	6,530	6,910	7,042	7,272	7,392	7,770	174,642
natural environment	6,264	6,088	6,737	5,681	5,774	5,877	5,855	5,682	5,216	5,535	5,181	5,939	7,487	6,346	6,498	6,792	5,704	5,942	6,169	7,445	5,950	6,388	6,432	7,418	148,400
materials	13,682	13,175	12,418	11,532	10,665	10,623	10,100	10,242	9,838	8,702	7,245	7,230	7,188	7,395	7,138	7,215	6,601	6,401	6,487	6,400	6,273	5,835	5,870	6,261	204,516
general machine	9,876	9,925	9,608	9,228	9,111	8,797	8,226	7,983	7,791	7,631	6,788	6,748	6,663	6,434	6,264	5,928	5,928	5,740	5,781	5,682	5,757	5,381	5,402	5,360	172,032
other causal agents	3,292	3,394	3,019	2,693	2,891	3,165	3,115	3,431	3,206	3,367	2,797	2,859	3,365	3,088	3,168	3,141	3,386	3,190	3,603	3,374	3,672	9,486	22,953	3,998	103,653
other equipments, facilities	2,600	2,643	2,715	2,565	2,433	2,800	2,923	2,961	3,086	3,150	2,827	3,123	2,931	3,101	3,143	3,266	3,190	3,338	3,103	3,348	3,368	3,476	3,808	3,924	73,822
metal manufacturing machine	5,926	5,666	5,115	4,675	4,619	4,545	4,292	4,260	4,142	3,790	2,713	2,897	3,080	3,016	2,759	2,819	2,641	2,532	2,503	2,527	2,446	2,242	2,346	2,263	83,814
crane	3,033	3,108	2,996	2,820	2,760	2,625	2,664	2,545	2,419	2,405	1,898	1,861	1,839	1,822	1,828	1,855	1,708	1,672	1,647	1,782	1,802	1,614	1,679	1,624	52,006
woodworking machine	5,803	5,644	5,090	4,652	4,604	4,152	3,835	3,482	3,515	3,255	2,837	2,768	2,725	2,515	2,393	2,355	2,059	1,989	1,835	1,828	1,824	1,770	1,775	1,553	74,258
construction machine	2,829	2,569	2,479	2,311	2,120	2,126	2,120	1,971	1,788	1,785	1,595	1,572	1,590	1,649	1,660	1,642	1,505	1,483	1,426	1,426	1,462	1,457	1,513	1,501	43,579
hazards, harmful substances	1,149	1,176	1,246	1,237	1,175	1,148	1,163	1,172	1,107	985	831	850	967	921	906	926	872	918	903	860	931	812	795	804	23,854

electric equipment	337	324	328	292	268	315	287	247	293	313	238	246	250	261	252	272	263	276	293	335	301	299	357	337	6,984
power transmission mechanism	655	588	552	532	473	460	511	456	440	445	379	401	377	374	367	338	392	319	363	351	301	293	313	324	10,004
unclassifiable	675	543	583	559	552	515	467	500	540	587	449	374	368	428	394	385	324	252	294	342	256	176	194	250	10,007
kiln, caldron	231	253	264	242	260	246	223	237	219	234	227	231	188	193	219	203	196	165	221	208	264	214	221	235	5,394
welding equipment	355	344	343	322	282	299	305	261	301	287	235	184	183	197	214	218	193	207	187	214	196	168	175	190	5,860
mobile silviculture machine																	91	96	68	77	87	106	83	116	724
pressure vessel	188	185	210	167	176	149	150	129	147	138	130	101	104	134	104	103	83	109	101	93	84	74	90	77	3,026
chemical facilities	47	43	27	47	44	59	57	45	40	40	26	25	33	33	17	38	29	32	24	43	30	21	47	31	878
engine	60	74	61	42	44	52	43	36	47	44	35	32	27	51	31	24	33	32	38	38	31	19	40	23	957

Transition of Causal agent (S) of fatal & non-fatal accident (total) 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
passage		7,973	9,055		9,058		10,174	10,336	9,946	10,636	9,794	10,378	11,112	11,340	11,043	11,746	11,404	13,046	13,283	15,395	14,401	15,042	16,969	16,776	248,907
no causal agent		3,975	4,210		4,855		5,155	5,163	5,291	5,589	5,959	6,155	6,093	6,428	6,291	6,478	6,749	6,613	7,514	8,635	8,939	10,065	11,276	10,980	142,413
truck		11,765	11,480		10,876		10,304	10,228	9,923	9,445	8,253	8,548	8,547	8,677	8,995	8,817	8,664	8,502	8,797	8,870	8,760	8,890	9,011	8,788	196,140
load		7,443	7,791		7,077		6,837	7,227	7,576	7,146	6,106	6,009	6,009	6,080	5,917	5,950	5,997	6,103	6,134	6,487	6,581	6,841	6,995	7,338	139,644
cars, bus, motorcycle		7,404	7,633		7,718		9,931	10,039	9,761	9,414	8,828	8,854	8,431	8,516	8,509	8,496	8,281	8,279	8,179	8,396	7,913	7,311	7,634	7,320	176,847
stairs, landing stage		4,678	4,760		5,048		5,151	5,575	5,476	5,467	5,088	4,992	5,133	5,118	4,986	5,337	5,320	5,618	5,786	5,950	6,270	6,343	6,597	6,725	115,418
other tools		3,806	4,022		4,131		4,233	4,572	4,534	4,848	3,873	3,945	4,220	4,080	4,303	4,371	4,481	4,733	5,066	5,109	5,568	5,180	5,553	5,582	96,210
ladder		5,829	5,867		5,651		5,610	5,653	5,613	5,464	5,041	5,061	5,199	5,309	5,269	5,250	5,034	5,086	5,178	5,410	5,571	5,621	5,663	5,569	113,948
other environments		2,351	2,851		2,368		2,848	2,605	2,174	2,515	2,351	2,608	3,021	3,294	3,407	3,944	2,924	3,321	3,484	3,968	2,987	3,230	3,758	4,477	64,486
human power hauling equipment		2,397	2,616		2,770		3,102	3,296	3,420	3,635	3,281	3,464	3,532	3,714	3,654	3,796	3,821	4,249	4,281	4,593	4,493	4,528	4,332	4,208	77,182
other causal agents		3,394	3,019		2,891		3,115	3,431	3,206	3,367	2,797	2,859	3,365	3,088	3,168	3,141	3,386	3,190	3,603	3,374	3,672	9,486	22,953	3,998	94,503
building, establishment		4,496	4,631		4,258		4,172	4,498	4,348	4,267	3,931	4,020	4,244	4,047	4,061	3,713	3,862	3,746	4,058	4,196	3,739	3,895	3,973	3,926	86,081
other equipments, facilities		2,643	2,715		2,433		2,923	2,961	3,086	3,150	2,827	3,123	2,931	3,101	3,143	3,266	3,190	3,338	3,103	3,348	3,368	3,476	3,808	3,924	65,857
working platform, boot board		4,195	3,846		4,033		3,462	3,793	3,803	3,979	3,481	3,627	3,440	3,434	3,396	3,714	3,693	3,578	3,780	4,035	3,775	3,515	3,400	3,841	77,820
metal material		6,858	6,771		5,751		5,534	5,629	5,427	4,893	3,850	3,822	3,749	3,901	3,663	3,809	3,509	3,463	3,595	3,548	3,394	3,070	3,131	3,320	90,687
other temporary buildings, establishments		2,474	2,599		2,791		2,777	2,813	2,544	2,522	2,376	2,538	2,393	2,584	2,434	2,781	2,887	2,976	2,734	2,883	3,269	3,359	3,105	3,303	58,142
hand tool		4,709	4,784		4,451		4,138	4,052	4,077	3,730	3,324	3,333	3,201	3,492	3,406	3,245	3,145	2,972	2,987	3,122	3,068	3,121	3,238	3,204	74,799

other general power machines	5,563	5,335	5,064	4,430	4,507	4,309	4,126	3,626	3,571	3,576	3,371	3,282	3,158	3,184	3,083	3,071	3,176	3,206	2,954	3,020	2,993	78,605
forklift	2,612	2,621	2,613	2,607	2,570	2,534	2,404	1,954	1,916	2,054	1,982	1,904	1,898	1,890	1,977	1,997	2,113	2,145	1,989	2,028	2,092	45,900
other materials	2,527	2,286	2,127	1,977	2,211	2,134	1,890	1,710	1,741	1,761	1,832	1,798	1,760	1,676	1,501	1,486	1,451	1,504	1,435	1,458	1,581	37,846
food manufacturing machine	2,525	2,476	2,347	2,267	2,004	2,001	2,152	1,967	1,992	1,992	1,902	1,852	1,723	1,784	1,778	1,744	1,588	1,658	1,548	1,503	1,503	40,306
human power cranes	96	113	115	100	94	97	95	57	66	82	60	65	72	56	62	64	84	406	573	907	1,384	4,648
high/cold temperature environment	360	652	391	382	516	480	485	300	834	662	709	819	748	656	666	733	1,483	1,087	1,194	847	1,210	15,214
lumber, bamboo	2,779	2,444	2,066	1,947	1,822	1,734	1,427	1,289	1,266	1,270	1,254	1,277	1,198	1,095	1,111	1,070	1,067	1,028	1,007	969	1,031	30,151
conveyor	1,544	1,554	1,504	1,376	1,390	1,400	1,339	1,071	1,153	1,092	1,104	1,127	1,131	998	981	1,019	988	967	941	976	935	24,590
standing tree	1,468	1,506	1,373	1,250	1,163	1,277	1,213	1,374	1,371	1,332	1,141	1,106	1,053	1,086	1,005	965	980	899	953	882	840	24,237
scaffolding	2,492	2,296	2,035	1,905	1,881	1,838	1,580	1,182	1,053	1,224	1,234	1,318	1,332	1,154	1,093	1,030	1,023	1,116	920	908	813	29,427
roof, beam, haze, crossbeam, principal rafter	2,087	2,135	1,859	1,851	1,657	1,360	1,317	1,103	1,187	1,337	1,360	1,246	1,170	1,069	1,030	962	1,080	946	836	814	802	27,208
crane	1,356	1,357	1,269	1,252	1,216	1,185	1,175	840	844	871	875	789	840	742	772	785	828	850	725	780	762	20,113
natural ground, rock	1,693	1,527	1,424	1,151	1,153	1,071	1,095	966	956	963	964	917	833	873	751	797	745	786	773	777	758	20,973
other metal manufacturing machines	1,927	1,716	1,480	1,353	1,415	1,341	1,191	821	921	981	956	931	931	796	779	844	831	817	725	788	747	22,291
excavating machine	1,237	1,108	913	942	823	752	752	663	645	671	696	681	690	573	567	586	593	653	672	650	684	15,551
circular sawing machine	2,620	2,370	2,172	1,776	1,641	1,555	1,419	1,199	1,182	1,153	1,094	1,065	1,028	870	839	777	774	805	721	721	653	26,434
mobile crane	1,131	969	912	870	766	736	768	648	619	588	566	660	630	615	597	564	603	589	570	566	551	14,518
grinding machine, buffing machine	855	849	797	755	726	816	749	599	633	689	620	561	603	565	569	549	562	560	521	554	518	13,650
other vehicles	860	793	770	801	758	861	702	660	636	644	713	565	560	539	489	513	488	493	395	441	486	13,167
power press	1,379	1,119	1,116	1,030	973	904	785	527	559	649	651	586	602	565	517	559	524	503	452	451	475	14,926
opening	523	578	493	476	505	494	449	457	395	387	433	429	420	413	456	420	494	502	484	466	474	9,748
other hazards, harmful substances	463	534	520	524	472	467	419	411	350	452	416	432	445	415	470	475	411	481	456	452	440	9,505
machine/equipment as load	727	862	713	706	713	710	683	586	590	528	589	543	458	459	451	396	423	461	431	397	432	11,858
other powered conveying machines	704	665	647	623	623	587	543	444	527	521	498	465	478	408	409	464	460	430	376	395	407	10,674
chain saw	665	646	721	639	604	698	651	689	690	631	571	502	541	503	449	431	407	427	461	467	385	11,778
slinging tool	809	815	743	758	706	704	647	518	516	482	483	497	448	449	468	444	417	418	369	394	379	11,464
roll machine (except printingroll machine)	671	646	602	566	532	529	509	446	479	416	439	440	424	385	348	417	365	358	354	321	351	9,598
stone, sand, substance	1,011	917	721	642	580	543	492	396	401	408	408	400	448	321	326	336	334	347	323	312	329	9,995
power transmission mechanism	588	552	473	511	456	440	445	379	401	377	374	367	338	392	319	363	351	301	293	313	324	8,357
other woodworking machines	1,217	1,023	878	763	680	713	634	519	518	551	524	483	475	411	436	390	374	387	349	372	305	12,002



hardening machine		136	175		137		96	111	100	99	88	99	74	78	64	83	84	79	57	52	66	52	58	49	1,837
inflammable gas		122	116		108		88	93	94	106	59	63	95	85	61	79	49	80	59	70	59	55	37	49	1,627
other pressure vessels		100	117		105		76	63	76	82	71	54	61	75	59	63	47	65	49	55	38	41	57	48	1,402
electric power facilities		64	73		64		65	50	72	66	51	72	50	56	49	60	47	45	42	59	38	45	52	47	1,167
foundation work machine		125	107		80		86	87	69	63	54	53	56	64	62	62	70	61	57	64	51	61	44	44	1,420
abnormal environment		41	46		40		41	41	44	45	27	44	59	83	65	26	35	51	55	65	31	32	28	34	933
chemical facilities		43	27		44		57	45	40	40	26	25	33	33	17	38	29	32	24	43	30	21	47	31	725
hollow chisel mortisers, wood borer		105	131		86		66	53	66	53	43	37	33	35	42	31	36	30	26	33	18	25	14	28	991
industrial dryer		28	29		20		30	24	21	25	29	21	26	23	25	27	16	16	29	16	28	25	22	25	505
engine		74	61		44		43	36	47	44	35	32	27	51	31	24	33	32	38	38	31	19	40	23	803
industrial robot		34	26		47		36	36	51	34	29	26	30	31	30	29	26	24	26	26	22	24	29	21	637
mobile logging machine																	27	20	19	24	21	18	15	21	165
rough terrain hauler		39	48		41		33	31	19	37	43	20	23	17	22	25	28	18	34	25	30	23	24	20	600
forging pressure hammer		35	30		17		25	21	19	26	16	18	12	12	12	11	12	12	14	10	15	11	9	20	357
explosive substance		52	47		48		44	29	27	22	19	21	15	17	31	18	17	16	14	14	14	11	18	19	513
pressure vessel		61	65		52		42	39	35	39	36	24	29	41	26	18	29	31	38	22	29	23	23	17	719
centrifugal machine		22	21		21		16	24	18	25	13	12	16	13	18	16	15	13	11	17	18	12	14	17	352
chamfering machine, router, woodworking milling machine		120	110		96		68	62	66	60	45	34	42	34	36	39	32	31	25	43	25	23	31	16	1,038
other kiln, caldron		32	30		37		12	31	24	24	25	16	18	19	20	30	35	30	23	22	21	17	20	16	502
cargo lifting appliance		20	20		12		14	10	14	6	5	10	16	5	12	11	5	13	14	12	16	11	15	16	257
skyline yarding machine																	12	15	7	11	15	11	16	15	102
lumberyard equipment, logging cableway		72	63		45		50	42	35	44	34	39	24	34	21	27	19	21	11	12	9	11	16	12	641
boiler		24	28		19		32	27	36	17	23	23	14	18	19	22	7	13	14	16	17	10	10	12	401
railway equipment		35	33		28		29	36	29	37	24	15	24	26	28	25	26	13	16	19	31	18	17	10	519
other mobile silviculture machine																	4	5	3	5	6	12	12	10	57
gondola		8	15		10		14	13	8	21	11	12	13	5	11	7	4	5	10	7	8	5	11	9	207
straddle carrier		10			5		1	6	2	5	1	2	3	5	2	7	4	5	5	4	2	4	5	3	81
simple skyline yarding equipment																	3	1		1		3	4	2	14
derrick crane		2	5		3		2	4	4	4	1	5	3	2		2					1				38

radiation		3	1		2				1		3	1			1		1	1	1	5					2		22
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Data Source : <https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html>

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